# Table of Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENERAL INFORMATION</td>
<td>3</td>
</tr>
<tr>
<td>GRADUATION PROGRAMS</td>
<td>4</td>
</tr>
<tr>
<td>ACADEMIC COURSE GUIDE</td>
<td>5</td>
</tr>
<tr>
<td>ENDORSEMENT PATHWAYS</td>
<td>6</td>
</tr>
<tr>
<td>HIGH SCHOOL GRADUATION TESTING REQUIREMENTS</td>
<td>9</td>
</tr>
<tr>
<td>GRADE LEVEL CLASSIFICATION</td>
<td>9</td>
</tr>
<tr>
<td>AWARD OF CREDIT</td>
<td>9</td>
</tr>
<tr>
<td>TEXAS VIRTUAL SCHOOL NETWORK (TXVSN)</td>
<td>9</td>
</tr>
<tr>
<td>CREDIT BY EXAMINATION (CBE)</td>
<td>10</td>
</tr>
<tr>
<td>CORRESPONDENCE COURSES</td>
<td>10</td>
</tr>
<tr>
<td>SUMMER SCHOOL</td>
<td>11</td>
</tr>
<tr>
<td>JUNIOR HIGH COURSEWORK</td>
<td>11</td>
</tr>
<tr>
<td>FOREIGN EXCHANGE STUDENTS</td>
<td>11</td>
</tr>
<tr>
<td>CAREER &amp; TECHNICAL EDUCATION (CTE)</td>
<td>11</td>
</tr>
<tr>
<td>INTERSCHOLASTIC COMPETITION ELIGIBILITY</td>
<td>12</td>
</tr>
<tr>
<td>ADVANCED PLACEMENT (AP) COURSES</td>
<td>13</td>
</tr>
<tr>
<td>DUAL CREDIT (DC) COURSES</td>
<td>14</td>
</tr>
<tr>
<td>COMPARING ADVANCED PLACEMENT AND DUAL CREDIT</td>
<td>15</td>
</tr>
<tr>
<td>SCHEDULE CHANGES</td>
<td>15</td>
</tr>
<tr>
<td>IMPORTANT INFORMATION FOR SENIORS</td>
<td>16</td>
</tr>
<tr>
<td>EARLY RELEASE/LATE ARRIVAL</td>
<td>17</td>
</tr>
<tr>
<td>COLLEGE CREDIT COURSES</td>
<td>18</td>
</tr>
<tr>
<td>COLLEGE ENROLLMENT/FINANCIAL AID/SCHOLARSHIPS</td>
<td>18</td>
</tr>
<tr>
<td>GRADE POINT SYSTEM</td>
<td>20</td>
</tr>
<tr>
<td>NCAA FRESHMAN-ELIGIBILITY STANDARDS</td>
<td>22</td>
</tr>
<tr>
<td>ENGLISH LANGUAGE ARTS</td>
<td>23</td>
</tr>
<tr>
<td>MATHEMATICS</td>
<td>25</td>
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<tr>
<td>SCIENCE</td>
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<tr>
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<td>29</td>
</tr>
<tr>
<td>ATHLETICS &amp; PHYSICAL EDUCATION</td>
<td>31</td>
</tr>
<tr>
<td>LANGUAGES OTHER THAN ENGLISH</td>
<td>32</td>
</tr>
<tr>
<td>FINE ARTS</td>
<td>34</td>
</tr>
<tr>
<td>CAREER &amp; TECHNICAL EDUCATION (CTE)</td>
<td>37</td>
</tr>
<tr>
<td>OTHER COURSES</td>
<td>47</td>
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GENERAL INFORMATION

The material in this guide is intended to provide students with essential information concerning Texas graduation requirements, as well as Montgomery Independent School District curriculum and course descriptions. The guide also includes academic policies and procedures. Students who plan to attend college after graduation should also research and consider the requirements outlined by that institution when selecting courses.

In addition to the comprehensive information in this booklet, counselors will make every effort to provide students and parents with additional information concerning graduation requirements, career choices, post-secondary education, universities, technical schools, military service and financial aid. Parent orientations and workshops are provided for college admissions and for financial aid, high school graduation requirements and registration. Research information, computer technology and assistance are also available through the College and Career Center. It is ultimately the responsibility of the student with the assistance of his/her parents to become familiar with the graduation programs, select the program that best meets his/her post-secondary goals and meet those related requirements.

We are pleased to assist with questions or concerns during the high school years. Contact the appropriate campus’ Counseling Center and College & Career Center at:

<table>
<thead>
<tr>
<th>Counseling Center</th>
<th>Montgomery High School</th>
<th>Lake Creek High School</th>
</tr>
</thead>
<tbody>
<tr>
<td>College &amp; Career Center</td>
<td>(936) 276-3091</td>
<td>(936) 276-4036</td>
</tr>
</tbody>
</table>

While every effort has been made to make the information provided in this Guide as detailed and accurate as possible, there is no guarantee that it is 100% error-free, nor does it supersede established policies and rules as set forth by Montgomery ISD. Contact the counseling department for questions or clarifications. The information provided here is current as of December 2020. A copy of this entire guide and catalog is available on the district website (www.misd.org) which will have corrections and the most recent updates of this handbook.

In its efforts to promote nondiscrimination and as required by law, Montgomery ISD does not discriminate on the basis of race, religion, color, national origin, gender, sex, disability, age, or any other basis prohibited by law, in providing education services, activities, and programs, including CTE programs, and provides equal access to the Boy Scouts and other designated youth groups. The following district representatives have been designated to coordinate compliance with these legal requirements:
- Title IX Coordinator, for concerns regarding discrimination on the basis of sex, including sexual harassment or gender-based harassment: Sonja Lopez, Assistant Superintendent of HR and Communication, 20774 Eva St., Montgomery, TX 77356, 936-276-2100.
- ADA/Section 504 Coordinator, for concerns regarding discrimination on the basis of disability: Meredith Burg, Executive Director of Special Education, 20774 Eva St., Montgomery, TX 77356, 936-276-2460.
- All other concerns regarding discrimination: See the Superintendent, Dr. Heath Morrison, 20774 Eva St. Montgomery, TX 77356, 936-276-2011.
Passed by the 83rd Texas Legislature, House Bill 5 (HB5) revises the graduation program for a **STUDENT ENTERING GRADE 9 IN THE 2014-2015 SCHOOL YEAR AND ALL SUBSEQUENT YEARS.** HB5 states that the Foundation Plan with an Endorsement is the default high school graduation plan for all students. This plan requires that a student entering grade 9 specify in writing which endorsement he/she will earn.

<table>
<thead>
<tr>
<th>DISCIPLINE</th>
<th>FOUNDATION HIGH SCHOOL PROGRAM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ENGLISH</strong></td>
<td>4 Credits: English I, II, III, and one additional English course</td>
</tr>
<tr>
<td><strong>MATHEMATICS</strong></td>
<td>3 Credits: Algebra I, Geometry, and one additional math course</td>
</tr>
<tr>
<td><strong>SCIENCE</strong></td>
<td>3 Credits: Biology, IPC or an advanced science course, and one additional science course</td>
</tr>
<tr>
<td><strong>SOCIAL STUDIES</strong></td>
<td>3 Credits: World Geography or World History, U.S. History, U.S. Government/Economics</td>
</tr>
<tr>
<td><strong>PHYSICAL EDUCATION</strong></td>
<td>1 Credit: Physical Education or state approved alternative (athletics, marching band, etc.)</td>
</tr>
<tr>
<td><strong>FINE ARTS</strong></td>
<td>1 Credit: Fine Arts</td>
</tr>
<tr>
<td><strong>LANGUAGE OTHER THAN ENGLISH</strong></td>
<td>2 Credits: both credits in the same language</td>
</tr>
<tr>
<td><strong>ELECTIVES</strong></td>
<td>4 Credits: Electives</td>
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</table>

<table>
<thead>
<tr>
<th></th>
<th>TOTAL = 21</th>
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</thead>
<tbody>
<tr>
<td><strong>1 FOUNDATION HSP</strong></td>
<td></td>
</tr>
<tr>
<td>WITHOUT AN ENDORSEMENT</td>
<td></td>
</tr>
<tr>
<td><em>(Committee Approval Is Required)</em></td>
<td></td>
</tr>
<tr>
<td>3 Credits: Elective Credits</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th></th>
<th>TOTAL CREDITS WITHOUT ENDORSEMENT = 24</th>
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</thead>
<tbody>
<tr>
<td><strong>2 FOUNDATION HSP</strong></td>
<td></td>
</tr>
<tr>
<td>WITH AN ENDORSEMENT</td>
<td></td>
</tr>
<tr>
<td><em>(The 5 Endorsements are listed in detail below)</em></td>
<td></td>
</tr>
<tr>
<td>5 CREDITS - A STUDENT MAY EARN AN ENDORSEMENT BY SUCCESSFULLY COMPLETING:</td>
<td></td>
</tr>
<tr>
<td>Four credits in mathematics</td>
<td></td>
</tr>
<tr>
<td>Four credits in science</td>
<td></td>
</tr>
<tr>
<td>Three additional elective credits</td>
<td></td>
</tr>
<tr>
<td><strong>STEM</strong></td>
<td>Includes courses directly related to:</td>
</tr>
<tr>
<td></td>
<td>• science, including environmental science</td>
</tr>
<tr>
<td></td>
<td>• technology, including computer science</td>
</tr>
<tr>
<td></td>
<td>• advanced math</td>
</tr>
<tr>
<td></td>
<td>• robotics</td>
</tr>
<tr>
<td><strong>BUSINESS &amp; INDUSTRY</strong></td>
<td>Includes courses directly related to:</td>
</tr>
<tr>
<td></td>
<td>• database management</td>
</tr>
<tr>
<td></td>
<td>• information technology</td>
</tr>
<tr>
<td></td>
<td>• communications</td>
</tr>
<tr>
<td></td>
<td>• accounting</td>
</tr>
<tr>
<td></td>
<td>• finance</td>
</tr>
<tr>
<td></td>
<td>• marketing</td>
</tr>
<tr>
<td></td>
<td>• graphic design</td>
</tr>
<tr>
<td></td>
<td>• architecture</td>
</tr>
<tr>
<td></td>
<td>• construction</td>
</tr>
<tr>
<td><strong>PUBLIC SERVICES</strong></td>
<td>Includes courses directly related to:</td>
</tr>
<tr>
<td></td>
<td>• health sciences and medical occupation</td>
</tr>
<tr>
<td></td>
<td>• education and training</td>
</tr>
<tr>
<td></td>
<td>• military service in the armed forces (to include the Coast Guard and National Guard)</td>
</tr>
<tr>
<td><strong>ARTS &amp; HUMANITIES</strong></td>
<td>Includes courses directly related to:</td>
</tr>
<tr>
<td></td>
<td>• political science</td>
</tr>
<tr>
<td></td>
<td>• world languages</td>
</tr>
<tr>
<td></td>
<td>• cultural studies</td>
</tr>
<tr>
<td></td>
<td>• English literature</td>
</tr>
<tr>
<td></td>
<td>• history</td>
</tr>
<tr>
<td></td>
<td>• fine arts</td>
</tr>
</tbody>
</table>

| **MULTIDISCIPLINARY STUDIES** | Allows a student to select courses from the curriculum of each endorsement area and earn credits in a variety of advanced courses from multiple content areas sufficient to complete the distinguished level of achievement. |

<table>
<thead>
<tr>
<th></th>
<th>TOTAL CREDITS WITH ENDORSEMENTS = 26</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>3</strong> DISTINGUISHED ACHIEVEMENT (Eligible for College Automatic Admissions)</td>
<td></td>
</tr>
<tr>
<td>• four credits in math, including credit in Algebra II</td>
<td></td>
</tr>
<tr>
<td>• four credits in science</td>
<td></td>
</tr>
<tr>
<td>• completion of curriculum requirements for at least one endorsement</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>TOTAL CREDITS WITH ENDORSEMENTS = 26</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PERFORMANCE ACKNOWLEDGEMENT</strong></td>
<td>A student may earn a performance acknowledgment on the student’s transcript...</td>
</tr>
<tr>
<td>1. For outstanding performance:</td>
<td></td>
</tr>
<tr>
<td>✓ in a dual credit course</td>
<td></td>
</tr>
<tr>
<td>✓ in bilingualism and bi-literacy</td>
<td></td>
</tr>
<tr>
<td>✓ on an AP test or IB exam</td>
<td></td>
</tr>
<tr>
<td>✓ on the PSAT, the ACT-Plan, the SAT, or the ACT</td>
<td></td>
</tr>
<tr>
<td>2. For earning a nationally or internationally recognized business or industry certification or license</td>
<td></td>
</tr>
</tbody>
</table>
### ACADEMIC COURSE GUIDE

Students are required to graduate with at least 26 credits.
Foundation Requirements + Endorsement Pathway and BIM

#### English (4 credits)
- English I
- English II
- English III, DC 1301/1302, AP Language
- English IV, DC 1301/1302/2332/2311
  - AP Literature, Creative Writing, Business English, Debate III, Film as Literature, College Readiness English

#### Math (3 credits + 1 for Endorsement)
- 1st: Algebra I
- 2nd: Geometry
- 3rd: Algebra II, Math Models
- 4th: (select one or more)
  - Algebra II
  - AQR
  - Pre-Calculus
  - AP Statistics
  - AP Calculus AB
  - AP Computer Science
  - Algebraic Reasoning
  - College Readiness Math (12th only)
  - Dual Credit College Algebra
  - Dual Credit Math for Business & Social Sciences 1324
  - Dual Credit Calculus for Business 1325
  - Dual Credit Statistics

#### Science (3 credits + 1 for Endorsement)
- 1st: Biology
- 2nd: Chemistry
  - or IPC (based on need)
- 3rd and 4th credit options:
  - Physics
  - Aquatic Science
  - Astronomy
  - Environmental Science
  - Animal Science (CTE)
  - Forensic Science (CTE)
  - Anatomy & Physiology (CTE)
  - Pathophysiology (CTE)
  - Principles of Engineering (PLTW)
  - Engineering Design & Dev. (PLTW)
  - AP Biology
  - AP Chemistry
  - AP Physics 1, 2
  - AP Environmental Science

#### Social Studies (3 credits)
- World Geography, AP Human Geography
- World History
- US History
- Government/Economics (12th grade)

#### LOTE (2 credits of the same language)

#### PE (1 credit)
- Foundations of Personal Fitness
- Aerobics Movement
- Team Sports
- Athletics (4 credits max)
- MJROTC (4 credits max)
- Off campus PE (meet requirements and guidelines)
- Dance Team (1 credit only)
- Band I
- Cheerleading (1 credit only)
- Jazz Show Choir

#### Fine Arts (1 credit)
- Art
- Band II
- Choir
- Dance
- Floral Design (CTE)
- Theatre

#### Electives (7 credits to include courses for the Endorsement Pathway)
### Endorsement Pathways

#### Business & Industry

<table>
<thead>
<tr>
<th>Crs</th>
<th>Accounting &amp; Financial Services</th>
<th>CTE</th>
<th>Gr</th>
</tr>
</thead>
<tbody>
<tr>
<td>5310</td>
<td>Principles of Business, Marketing and Finance</td>
<td>1</td>
<td>9-11</td>
</tr>
<tr>
<td>5320</td>
<td>Money Matters</td>
<td>1</td>
<td>10-12</td>
</tr>
<tr>
<td>5311</td>
<td>Business Information Management I (BIM I)</td>
<td>1</td>
<td>9-11</td>
</tr>
<tr>
<td>5321</td>
<td>Accounting I</td>
<td>2</td>
<td>10-12</td>
</tr>
<tr>
<td>5313</td>
<td>Human Resource Management</td>
<td>-</td>
<td>11-12</td>
</tr>
<tr>
<td>5314</td>
<td>Banking and Financial Services</td>
<td>2</td>
<td>11-12</td>
</tr>
<tr>
<td>5322</td>
<td>Accounting II</td>
<td>3</td>
<td>11-12</td>
</tr>
<tr>
<td>5341</td>
<td>Career Preparation I</td>
<td>4</td>
<td>11-12</td>
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**Animal Science**

<table>
<thead>
<tr>
<th>Crs</th>
<th>Principles of Agriculture, Food and Natural Resources</th>
<th>CTE</th>
<th>Gr</th>
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<tbody>
<tr>
<td>5126</td>
<td>Principles of Agriculture, Food and Natural Resources</td>
<td>1</td>
<td>9-11</td>
</tr>
<tr>
<td>5127</td>
<td>Equine Science</td>
<td>2</td>
<td>10-12</td>
</tr>
<tr>
<td>5128</td>
<td>Livestock Production</td>
<td>3</td>
<td>10-12</td>
</tr>
<tr>
<td>5129</td>
<td>Advanced Animal Science</td>
<td>4</td>
<td>12</td>
</tr>
<tr>
<td>5130</td>
<td>Veterinary Medical Applications</td>
<td>4</td>
<td>11-12</td>
</tr>
<tr>
<td>5135</td>
<td>Pracitum in Agriculture, Food, and Natural Resources</td>
<td>4</td>
<td>12</td>
</tr>
<tr>
<td>5136</td>
<td>Wildlife, Fisheries and Ecology Management</td>
<td>1</td>
<td>10-12</td>
</tr>
<tr>
<td>5137</td>
<td>Aquatic Science</td>
<td>1</td>
<td>11-12</td>
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**Applied Agricultural Engineering (Welding)**

<table>
<thead>
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<th>CTE</th>
<th>Gr</th>
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<tbody>
<tr>
<td>5110</td>
<td>Principles of Agriculture, Food and Natural Resources</td>
<td>1</td>
<td>9-11</td>
</tr>
<tr>
<td>5131</td>
<td>Ag Mechanics and Metal Technologies</td>
<td>2</td>
<td>10-12</td>
</tr>
<tr>
<td>5132</td>
<td>Ag Facilities Design and Fabrication</td>
<td>3</td>
<td>11-12</td>
</tr>
<tr>
<td>5137</td>
<td>Agricultural Equipment Design and Fabrication</td>
<td>4</td>
<td>12</td>
</tr>
<tr>
<td>5891</td>
<td>Dual Credit Basic Machine Shop I (at Lone Star College - Conroe)</td>
<td>-</td>
<td>11-12</td>
</tr>
<tr>
<td>5892</td>
<td>Dual Credit Auto Tech (at Lone Star College - Conroe)</td>
<td>-</td>
<td>11-12</td>
</tr>
<tr>
<td>5133</td>
<td>Dual Credit Introduction To Welding (at Lone Star College - Conroe)</td>
<td>-</td>
<td>11-12</td>
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</table>

**Architectural Design**

<table>
<thead>
<tr>
<th>Crs</th>
<th>Principles of Architecture and Construction</th>
<th>CTE</th>
<th>Gr</th>
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</thead>
<tbody>
<tr>
<td>5450</td>
<td>Principles of Architecture and Construction</td>
<td>1</td>
<td>10-12</td>
</tr>
<tr>
<td>5451</td>
<td>Interior Design I</td>
<td>2</td>
<td>10-12</td>
</tr>
<tr>
<td>5452</td>
<td>Interior Design II</td>
<td>3</td>
<td>11-12</td>
</tr>
<tr>
<td>5862</td>
<td>PLTW - Civil Engineering and Architecture</td>
<td>3</td>
<td>10-12</td>
</tr>
<tr>
<td>5341</td>
<td>Career Preparation I</td>
<td>4</td>
<td>11-12</td>
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**Business Management**

<table>
<thead>
<tr>
<th>Crs</th>
<th>Principles of Business, Marketing and Finance</th>
<th>CTE</th>
<th>Gr</th>
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<tbody>
<tr>
<td>5310</td>
<td>Principles of Business, Marketing and Finance</td>
<td>1</td>
<td>9-11</td>
</tr>
<tr>
<td>5311</td>
<td>Business Information Management I (BIM I)</td>
<td>1</td>
<td>9-11</td>
</tr>
<tr>
<td>5312</td>
<td>Business Information Management II (BIM II)</td>
<td>2</td>
<td>10-12</td>
</tr>
<tr>
<td>5332</td>
<td>Business Law</td>
<td>2</td>
<td>11-12</td>
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<td>5331</td>
<td>Business Management</td>
<td>3</td>
<td>10-12</td>
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<tr>
<td>5313</td>
<td>Human Resource Management</td>
<td>3</td>
<td>11-12</td>
</tr>
<tr>
<td>5314</td>
<td>Banking and Financial Services</td>
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<tr>
<td>5341</td>
<td>Career Preparation I</td>
<td>4</td>
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**Digital Communications**

<table>
<thead>
<tr>
<th>Crs</th>
<th>Principles of Arts, AV Technology and Communication</th>
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<th>Gr</th>
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<tbody>
<tr>
<td>5210</td>
<td>Principles of Arts, AV Technology and Communication</td>
<td>1</td>
<td>9-11</td>
</tr>
<tr>
<td>5212</td>
<td>Audio Video Production II</td>
<td>3</td>
<td>11-12</td>
</tr>
<tr>
<td>5213</td>
<td>Practicum in Audio Video Production</td>
<td>4</td>
<td>12</td>
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</table>

**Fashion Design/Design & Multimedia Arts**

<table>
<thead>
<tr>
<th>Crs</th>
<th>Principles of Arts, AV Technology and Communication</th>
<th>CTE</th>
<th>Gr</th>
</tr>
</thead>
<tbody>
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<td>5210</td>
<td>Principles of Arts, AV Technology and Communication</td>
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<td>9-11</td>
</tr>
<tr>
<td>5441</td>
<td>Fashion Design I</td>
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<td>10-12</td>
</tr>
<tr>
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<td>Fashion Design II</td>
<td>3</td>
<td>11-12</td>
</tr>
<tr>
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<td>Career Preparation I</td>
<td>4</td>
<td>11-12</td>
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**Journalism**

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<tr>
<td>0580</td>
<td>Journalism</td>
<td>-</td>
<td>9-12</td>
</tr>
<tr>
<td>0581</td>
<td>Yearbook I-III</td>
<td>-</td>
<td>9-12</td>
</tr>
<tr>
<td>0591</td>
<td>Newspaper I-III</td>
<td>-</td>
<td>9-12</td>
</tr>
<tr>
<td>0611</td>
<td>Photojournalism I-II</td>
<td>-</td>
<td>9-12</td>
</tr>
<tr>
<td>0554</td>
<td>Creative Writing</td>
<td>-</td>
<td>12</td>
</tr>
<tr>
<td>0594</td>
<td>Independent Study Newspaper</td>
<td>-</td>
<td>12</td>
</tr>
<tr>
<td>0584</td>
<td>Independent Study Yearbook</td>
<td>-</td>
<td>12</td>
</tr>
</tbody>
</table>

**Marketing & Sales**

<table>
<thead>
<tr>
<th>Crs</th>
<th>Principles of Business, Marketing and Finance</th>
<th>CTE</th>
<th>Gr</th>
</tr>
</thead>
<tbody>
<tr>
<td>5310</td>
<td>Principles of Business, Marketing and Finance</td>
<td>1</td>
<td>9-11</td>
</tr>
<tr>
<td>5335</td>
<td>Sports &amp; Ent. Marketing (.5 credit)</td>
<td>2</td>
<td>10-12</td>
</tr>
<tr>
<td>5336</td>
<td>Sports &amp; Ent. Marketing II (.5 credit)</td>
<td>3</td>
<td>10-12</td>
</tr>
<tr>
<td>5333</td>
<td>Advertising (.5 credit)</td>
<td>3</td>
<td>10-12</td>
</tr>
<tr>
<td>5334</td>
<td>Social Media Marketing (.5 credit)</td>
<td>3</td>
<td>10-12</td>
</tr>
<tr>
<td>5340</td>
<td>Fundamentals of Real Estate</td>
<td>3</td>
<td>12</td>
</tr>
<tr>
<td>5341</td>
<td>Career Prep I</td>
<td>4</td>
<td>11-12</td>
</tr>
</tbody>
</table>

**Plant Science**

<table>
<thead>
<tr>
<th>Crs</th>
<th>Principles of Agriculture, Food and Natural Resources</th>
<th>CTE</th>
<th>Gr</th>
</tr>
</thead>
<tbody>
<tr>
<td>5110</td>
<td>Principles of Agriculture, Food and Natural Resources</td>
<td>1</td>
<td>9-11</td>
</tr>
<tr>
<td>5143</td>
<td>Horticultural Science</td>
<td>3</td>
<td>10-12</td>
</tr>
<tr>
<td>5141</td>
<td>Floral Design</td>
<td>3</td>
<td>10-12</td>
</tr>
<tr>
<td>5144</td>
<td>Advanced Plant &amp; Soil Science</td>
<td>4</td>
<td>12</td>
</tr>
<tr>
<td>5142</td>
<td>Advanced Floral Design</td>
<td>4</td>
<td>11-12</td>
</tr>
</tbody>
</table>

Courses in **bold text** are recommended pathway courses but can be modified. Check with your counselor regarding course availability at your campus.
### PUBLIC SERVICES

<table>
<thead>
<tr>
<th>Crs</th>
<th>Teaching and Training</th>
<th>CTE</th>
<th>Grade</th>
<th>Crs</th>
<th>Health Care Therapeutic</th>
<th>CTE</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>5420</td>
<td>Principles of Education and Training</td>
<td>1</td>
<td>9-11</td>
<td>5510</td>
<td>Principles of Health Science</td>
<td>1</td>
<td>9-11</td>
</tr>
<tr>
<td>5421</td>
<td>Human Growth and Development</td>
<td>2</td>
<td>10-11</td>
<td>5512</td>
<td>Medical Terminology</td>
<td>2</td>
<td>9-12</td>
</tr>
<tr>
<td>5422</td>
<td>Instructional Practices</td>
<td>3</td>
<td>11-12</td>
<td>1551</td>
<td>Anatomy and Physiology</td>
<td>3</td>
<td>11-12</td>
</tr>
<tr>
<td>5423</td>
<td>Practicum In Education and Training</td>
<td>4</td>
<td>12</td>
<td>5513</td>
<td>Health Science Theory</td>
<td>3</td>
<td>11-12</td>
</tr>
<tr>
<td>5424</td>
<td>Project Based Research: Peer Coaching</td>
<td>4</td>
<td>11-12</td>
<td>5515</td>
<td>Pathophysiology</td>
<td>4</td>
<td>11-12</td>
</tr>
<tr>
<td>5341</td>
<td>Career Preparation I</td>
<td>4</td>
<td>11-12</td>
<td>5514</td>
<td>Pharmacology</td>
<td>4</td>
<td>11-12</td>
</tr>
<tr>
<td></td>
<td><strong>Cosmetology &amp; Personal Care Services</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>Medical Therapy</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5460</td>
<td>Principles of Cosmetology Design and Color Theory</td>
<td>1</td>
<td></td>
<td>5516</td>
<td>Practicum in Health Science-Certified Clinical Medical Assistant</td>
<td>4</td>
<td>12</td>
</tr>
<tr>
<td>5461</td>
<td>Cosmetology I</td>
<td>3</td>
<td>11-12</td>
<td>5517</td>
<td>Practicum in Health Science-Patient Care Technician</td>
<td>4</td>
<td>12</td>
</tr>
<tr>
<td>5463</td>
<td>Introduction to Cosmetology</td>
<td>2</td>
<td></td>
<td>5518</td>
<td>Practicum in Health Science-Pharmacy Technician</td>
<td>4</td>
<td>12</td>
</tr>
<tr>
<td>5464</td>
<td>Cosmetology II</td>
<td>4</td>
<td>12</td>
<td>5519</td>
<td>Dual Credit Emergency Medical Technician (at Lone Star College - Conroe)</td>
<td>4</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td><strong>Law Enforcement Services</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>MCJROTC</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5610</td>
<td>Principles of Law, Public Safety, Corrections and Security</td>
<td>1</td>
<td>9-11</td>
<td>5510</td>
<td>Principles of Health Science</td>
<td>1</td>
<td>9-11</td>
</tr>
<tr>
<td>5611</td>
<td>Law Enforcement I</td>
<td>2</td>
<td>10-12</td>
<td>5512</td>
<td>Medical Terminology</td>
<td>2</td>
<td>9-12</td>
</tr>
<tr>
<td>5613</td>
<td>Correctional Services</td>
<td>3</td>
<td>10-12</td>
<td>5524</td>
<td>Physical Therapy I</td>
<td>3</td>
<td>11-12</td>
</tr>
<tr>
<td>5616</td>
<td>Dual Credit Criminal Justice/Law Enforcement II</td>
<td>3</td>
<td>11-12</td>
<td>5525</td>
<td>Physical Therapy II</td>
<td>4</td>
<td>12</td>
</tr>
<tr>
<td>5614</td>
<td>Forensic Science</td>
<td>4</td>
<td>11-12</td>
<td></td>
<td><strong>Science</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>MCJROTC</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>Mathematics</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5621-24</td>
<td>MCJROTC I/IV</td>
<td>9-12</td>
<td></td>
<td></td>
<td>Five (5) credits in Science by successfully completing Biology, Chemistry, Physics, and two additional science courses.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5631-34</td>
<td>MCJROTC Drill I/IV</td>
<td>9-12</td>
<td></td>
<td></td>
<td>Five (5) credits in any Mathematics course (must include Alg II and two additional math courses for which Alg II is a prerequisite)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5641-43</td>
<td>Student Leadership/Command Development</td>
<td>11-12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**MCJROTC courses are available to all qualifying MISD students but are only housed at the MHS campus. Transportation will be provided.**

### Science Technology Engineering and Mathematics (STEM)

To earn a STEM endorsement, a student must successfully complete Alg II, Chemistry, and Physics in addition to one pathway below.

<table>
<thead>
<tr>
<th>Engineering</th>
<th>Adv. Manufacturing &amp; Machinery Mechanics (Robotics)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5801 PLTW - Introduction To Engineering Design</td>
<td>5801 PLTW - Introduction To Engineering Design</td>
</tr>
<tr>
<td>5802 PLTW - Civil Engineering and Architecture</td>
<td>5807 Robotics I</td>
</tr>
<tr>
<td>5803 PLTW - Aerospace Engineering</td>
<td>5808 Robotics II</td>
</tr>
<tr>
<td>5804 PLTW - Digital Electronics</td>
<td>5815 Practicum in Manufacturing</td>
</tr>
<tr>
<td>5805 PLTW - Principles of Engineering/Engineering Science</td>
<td>4</td>
</tr>
<tr>
<td>5806 PLTW - Engineering Design and Development (Capstone)</td>
<td>3</td>
</tr>
<tr>
<td>5814 Practicum in STEM</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cybersecurity</th>
<th>Mathematics</th>
</tr>
</thead>
<tbody>
<tr>
<td>5811 PLTW-Fundamentals of Comp Science</td>
<td>Five (5) credits in any Mathematics course (must include Alg II and two additional math courses for which Alg II is a prerequisite)</td>
</tr>
<tr>
<td>5816 AP Computer Science Principles</td>
<td></td>
</tr>
<tr>
<td>5812 AP Computer Science A</td>
<td></td>
</tr>
<tr>
<td>5813 PLTW - Foundations of Cybersecurity</td>
<td></td>
</tr>
<tr>
<td>5814 Practicum in STEM</td>
<td></td>
</tr>
</tbody>
</table>

Courses in **bold text** are recommended pathway courses but can be modified.
Check with your counselor regarding course availability at your campus.
## ARTS & HUMANITIES

<table>
<thead>
<tr>
<th>Art</th>
<th>Choir (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4511 Art I</td>
<td>4300 Bel Canto Women’s Choir</td>
</tr>
<tr>
<td>4522 Art II Intro to Drawing</td>
<td>4301-04 A Capella Selected Women I-IV</td>
</tr>
<tr>
<td>4532 Art II Intro to Painting</td>
<td>4321-24 Concert Women I-IV</td>
</tr>
<tr>
<td>4542 Art II Sculpture</td>
<td>4341-44 Varsity Chorale Women I-IV</td>
</tr>
<tr>
<td>4552 Art II Intro to Ceramics</td>
<td>4351-52 Jazz Show Choir I-II</td>
</tr>
<tr>
<td>4523 Art III Intermediate Drawing</td>
<td>4361-64 Madrigals/Chamber Ensemble I-IV</td>
</tr>
<tr>
<td>4533 Art III Intermediate Painting</td>
<td></td>
</tr>
<tr>
<td>4543 Art III Sculpture</td>
<td>4311 Concert Men I</td>
</tr>
<tr>
<td>4544 Art IV Sculpture</td>
<td>4312-14 Concert Men II-IV</td>
</tr>
<tr>
<td>4553 Art III Intermediate Ceramics</td>
<td>4331-34 Varsity Choral Men I-IV</td>
</tr>
<tr>
<td>4552 AP 2-D Art and Design</td>
<td>4361-64 Madrigals/Chamber Ensemble I-IV</td>
</tr>
<tr>
<td>4563 AP 3-D Art and Design</td>
<td></td>
</tr>
<tr>
<td>4564 AP Studio Art: Drawing Portfolio</td>
<td>4621-24 Dance Team I-IV</td>
</tr>
<tr>
<td>4524 Art IV Upper Level Drawing</td>
<td>4611-14 Dance I-IV</td>
</tr>
<tr>
<td>4534 Art IV Upper Level Painting</td>
<td>4631-33 Dance Productions I-III</td>
</tr>
<tr>
<td>4554 Art IV Upper Level Ceramics</td>
<td></td>
</tr>
</tbody>
</table>

### Band

<table>
<thead>
<tr>
<th>Band</th>
<th>Choir (M)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4201-04 Band I-IV</td>
<td></td>
</tr>
<tr>
<td>4211-14 Band Ensemble I-IV</td>
<td></td>
</tr>
<tr>
<td>4221-24 Jazz Band I-IV</td>
<td></td>
</tr>
<tr>
<td>4231-34 Percussion I-IV</td>
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</tbody>
</table>

### Theatre Arts

<table>
<thead>
<tr>
<th>Theatre Arts</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4401-04 Theatre Arts I-IV</td>
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</tbody>
</table>

### LOTE

<table>
<thead>
<tr>
<th>LOTE</th>
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</thead>
<tbody>
<tr>
<td>4411-14 Tech Theatre I-IV</td>
<td></td>
</tr>
<tr>
<td>4421-23 Theatre Productions</td>
<td></td>
</tr>
<tr>
<td>4431 Theatre Directing</td>
<td></td>
</tr>
</tbody>
</table>

### Social Studies

<table>
<thead>
<tr>
<th>Social Studies</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Four (4) credits in any Social Studies course</td>
<td>Two (2) levels of non-English languages</td>
</tr>
</tbody>
</table>

## MULTIDISCIPLINARY

* Four (4) credits in each of the four foundation subject areas (including English IV and Chemistry and/or Physics).
* Four (4) AP courses to include one credit in each of the four foundation subjects.
* Four (4) Advanced Courses from within one endorsement area that are not in coherent sequence.

Courses in **bold text** are recommended pathway courses but can be modified.
Check with your counselor regarding course availability at your campus.
HIGH SCHOOL GRADUATION TESTING REQUIREMENTS

State Of Texas Assessments Of Academic Readiness (STAAR)
STAAR end-of-course (EOC) assessments are administered for the following courses: Algebra I, Biology, English I, English II, and U.S. History. Satisfactory performance on the applicable assessments is required for graduation, unless otherwise waived or substituted as allowed by state law and rules. There are three testing windows during the year in which a student may take an EOC assessment, which will occur during the fall, spring, and summer months. If a student does not meet satisfactory performance, the student will have additional opportunities to retake the assessment. In limited circumstances, a student who fails to demonstrate proficiency on two or fewer of the required assessments may still be eligible to graduate if an Individual Graduation Committee, (IGC) formed in accordance with state law, unanimously determines that the student is eligible to graduate.

STAAR-Alternate 2 is available for eligible students receiving special education services who meet certain criteria established by the state as determined by the student’s ARD committee. An ARD committee for a student receiving special education services will determine whether successful performance on the EOC assessments will be required for graduation within the parameters identified in state rules and the student’s personal graduation plan.

An ARD committee for a student receiving special education services will determine whether successful performance on the EOC assessments will be required for graduation within the parameters identified in state rules and the student’s personal graduation plan.

STAAR EOC Performance Standards
To find the most recent STAAR EOC Performance Standards, visit the TEA website at:
http://tea.texas.gov/student.assessments/staar/performance-standards

GRADE LEVEL CLASSIFICATION
A student is classified according to the number of credits earned at the beginning of the school year. A student beginning the school year as a freshman WILL NOT be reclassified at midterm; however, a repeat sophomore or junior who earns the required number of credits by the spring semester WILL BE RECLASSIFIED. A fourth year junior will be reclassified to senior status immediately upon earning the required 18 credits.

<table>
<thead>
<tr>
<th>Credits Earned</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>18 – 25½ and 4th year in high school</td>
<td>Senior</td>
</tr>
<tr>
<td>13 – 17½ and 3rd year in high school</td>
<td>Junior</td>
</tr>
<tr>
<td>6 – 12½ and 2nd year in high school</td>
<td>Sophomore</td>
</tr>
<tr>
<td>0 – 5½</td>
<td>Freshman</td>
</tr>
</tbody>
</table>

AWARD OF CREDIT
Per district policy: “A student shall earn a full year of credit if the first semester grade average is below 70, but the second semester grade average brings the overall average to 70 or above. A student who earns a passing grade for the first semester but fails the second semester with a grade below 62 shall earn credit only for the first semester, even if the overall average is for the two semesters is 70 or above. In this circumstance, the student shall be required to retake the second semester in which the failing grade was earned.”

In addition to course offerings, the district provides other options for earning high school credits. Distance learning and correspondence courses include courses that encompass the state-required essential knowledge and skills but are taught through multiple technologies and alternative methodologies such as mail, satellite, Internet, video-conferencing, and instructional television. The distance learning opportunities that the district makes available to district students is through the Texas Virtual School Network (TxVSN). If a student wishes to enroll in a correspondence course or a distance learning course that is not provided through the Texas Virtual School Network (TxVSN), in order to earn credit in a course or subject, the student must receive permission from the principal prior to enrolling in the course or subject. If the student does not receive prior approval, the district may not recognize and apply the course or subject toward graduation requirements or subject mastery. Credits earned through credit by examination, correspondence, CLEP, summer school, junior high and virtual school are not included in the GPA and are not used for ranking purposes nor do they replace grades earned during the regular school year on the Academic Achievement Record. The following information should be helpful to students and parents who wish to consider these options.

TEXAS VIRTUAL SCHOOL NETWORK (TxVSN)
The Texas Virtual School Network (TxVSN) has been established by the state as one method of distance learning. A student has the option, with certain limitations, to enroll in a course offered through the TxVSN to earn course credit for graduation. The Superintendent or designee shall establish procedures for students to enroll in courses provided by the Texas Virtual School Network (TxVSN). Enrollment in courses through the TxVSN shall not be subject to limitations the district may impose for other distance learning courses. Montgomery ISD will deny requests by students to take
CREDIT BY EXAMINATION (CBE)

Students seeking original credit for a course in which they have had no prior instruction may take the appropriate exams (Texas Tech or University of Texas) according to the schedule listed above. Students also have the option to take Advanced Placement (AP) exams or College Level Examination Program (CLEP) without prior instruction and receive credit for the class if the student scores:

1. Eighty percent (80%) or above on the criterion-referenced exam for acceleration for the course
2. A three (3) or higher on an AP exam, or
3. A scaled score of fifty (50) or higher on a CLEP exam

If credit is granted, the examination score will be entered on the student’s transcript and the student is not required to take an end-of-course assessment instrument for that subject. Students may not attempt more than two times to receive credit for a particular subject on the basis of an examination for credit in that subject.

CBE For Acceleration

A student will be permitted to take an exam to earn credit for an academic course or subject area for which the student has had no prior instruction, i.e., for advancement, or to accelerate to the next grade level. The exams offered by the district are approved by the district’s board of trustees, and state law requires the use of certain exams, such as College Board Advanced Placement (AP) and College Level Examination Program (CLEP) tests, when applicable. The dates on which exams are scheduled are published in course selection guides, parent/student handbooks and on the district’s website. During each testing window provided by the district, a student may attempt a specific exam only once. There is no fee for examinations for acceleration.

Performance Criteria for Acceleration: To receive credit for the course, the student must score an 80 percent or higher on the district’s designated criterion-referenced test covering the requirements in Chapters 74 and 75 of the Texas Administrative Code (TAC) and district objectives of the course.

Granting and Recording Credit: Test scores will be posted to the AAR and credit will be awarded for grades of 70 or higher. No advanced course designations will be given. CBE grades will not be computed in the GPA and/or used for ranking purposes.

CBE For Verification

Eligible students have the opportunity to earn credit in courses for which they have had prior instruction through CBE. See the counselor for specific information about courses and requirements. The high school CBE for verification program is for students who participated in home schooling, attended a non-accredited school or had a non-traditional academic background.

Performance Criteria for Verification: To receive credit for the course, the student must score a 70 percent or higher on the district’s designated criterion-referenced test covering the requirements in Chapters 74 and 75 of the TAC and district objectives of the course.

Granting and Recording Credit: Test scores will be posted to the AAR and credit will be awarded for grades of 70 or higher. No advanced course designations will be given. CBE grades will not be computed in the GPA and/or used for ranking purposes.

CBE For Retrieval

A student who has previously taken a course or subject – but did not receive credit or a final grade for that subject — may, in circumstances determined by the principal or attendance committee, be permitted to earn credit by passing an exam approved by the district’s board of trustees on the essential knowledge and skills defined for that course or subject. Prior instruction may include, for example, incomplete coursework due to a failed course or excessive absences, homeschooling, or coursework by a student transferring from a non-accredited school. The opportunity to take an examination to earn credit for a course or to be awarded a final grade in a subject after the student has had prior instruction is sometimes referred to as “credit recovery.”

The school counselor or principal would determine if the student could take an exam for this purpose. If approval is granted, the student must score at least 70 on the exam to receive credit for the course or subject. The attendance review committee may also offer a student with excessive absences an opportunity to earn credit for a course by passing an exam.

For further information, see the school counselor and policy EHDB (LOCAL).

Performance Criteria for Retrieval: To receive credit for the course, the student must score a 70 percent or higher on the district’s designated criterion-referenced test covering the requirements in Chapters 74 and 75 of the TAC and district objectives of the course.

Granting and Recording Credit: Test scores will be posted to the AAR and credit will be awarded for grades of 70 or higher. No advanced course designations will be given. CBE grades will not be computed in the GPA and/or used for ranking purposes.

CORRESPONDENCE COURSES
State-required credits for graduation may be earned through correspondence courses. Courses must be taken from the University of Texas Extension Division or the Extension Division of Texas Tech University. The student is responsible for fees and books required for correspondence courses.

- **Correspondence Courses for Initial Credit**: A student may take a maximum of four (4) semesters (2 credits) through correspondence. Information for correspondence courses is available through the Counseling Center.
- **Correspondence Courses for Retrieval of Credit**: Information for correspondence courses for retrieval of credit is available through the Counseling Center.

Correspondence grades must be received by May 1st if the grades are necessary for graduation. **Students will not be allowed to use these grades for purposes of participating in the graduation exercise after this date.** Grades earned in this manner are not included in the GPA and not used for ranking purposes nor do they replace grades earned during the regular school year on the AAR.

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**SUMMER SCHOOL**

Summer school courses may be used for remediation or retrieval of credit depending on the offering institution. Courses offered should be comparable to the same courses taught during the regular school semester(s) in content and achievement standards. Grades earned in this manner are not included in the GPA and not used for ranking purposes, nor do they replace grades earned during the regular school year on the AAR. Students should see their assigned counselor for additional information.

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**JUNIOR HIGH COURSEWORK**

High school courses taken in junior high school will earn credit toward the 26 credits required for graduation. However, it is strongly suggested that students complete four (4) math credits in high school for college readiness. Grades earned in junior high are not included in the GPA and not used for ranking purposes nor do they replace grades earned during the regular school year on the AAR.

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**FOREIGN EXCHANGE STUDENTS**

The purpose of a foreign exchange program is for cultural and social enrichment. Foreign exchange students are **not eligible to graduate** from MISD nor will they be issued a diploma. MISD cannot complete I-20 forms for any foreign exchange student because Texas law does not allow school districts to charge foreign exchange students tuition. The host family must reside within MISD’s attendance zone. A foreign exchange student will be **required to take the following courses**: English III or AP English Language, US History and US Government. Additional courses to complete the schedule should enhance the cultural and social experience of the exchange. If an exchange student wishes to enroll in mathematics or science, he/she must, upon enrollment in MISD, provide recommendations for the level of math and/or science that is best matched for his/her success. A foreign exchange student must meet the prerequisites, guidelines and level changes as all other MISD students. Regardless of the year in school in their home country, a foreign exchange student is classified as an eleventh grade student. A foreign exchange student will be required to take STAAR EOC assessments for courses in which he/she is enrolled. A foreign exchange student is encouraged to participate in clubs, activities and athletics while enrolled in high school, as well as present information about their home country to the MISD community.

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**CAREER & TECHNICAL EDUCATION (CTE)**

The Career and Technical Education Department encourages students to pursue certification and licenses as appropriate. Certification and licenses are available in the selected Career and Technical Education program areas. Students should consult with their teachers and/or counselors to discuss the various opportunities and fees involved. The following certifications are offered at MISD or through LSCS:

- Floral Design Certification – Floral Design Students
- Microsoft Office Specialist (MOS) – BIM Students
- OSHA – Most CTE classes offer this certification
- Servsafe – Culinary Arts Students
- Pharmacy Technician (CPHT) – Pharmacy Tech students
- Certified Veterinary Assistant – Veterinary students
- Emergency Medical Technician (EMT) – Lone Star Technical Credit Course
- National Institute for Automotive Service Excellence (ASE) – Automotive Technology classes at Lone Star
- National Center for Construction Education and Research (NCCER) – Welding and Machining classes at Lone Star
- Armed Forces – Students eligible for Service Academy appointments, ROTC Scholarships and enlisted promotion to E-2.
INTERSCHOLASTIC COMPETITION ELIGIBILITY

Students in grades 7 through 12 may participate in extracurricular activities on-campus or off-campus at the beginning of the school year only if they have earned the cumulative number of credits in state-approved courses as indicated below, with the exception of special education students whose status is defined by the ARD committee and their own IEP's.

1) Beginning in Grade 7 and continuing through Grades 8 and 9: must have been promoted from previous grade, not placed.
2) Beginning in Grade 10 or the second year of high school (Grades 9 through 12): must have earned five (5) state credits.
3) Beginning in the third year of high school: must have earned ten (10) state credits or must have earned five (5) state credits during the preceding 12 months.
4) Beginning in the fourth year of high school: must have earned 15 state credits or must have earned five (5) state credits during the preceding 12 months.

Credits earned in summer school or in correspondence may be used to determine eligibility.

At the end of a grading period, a student who receives a grade below 70 (grade below 65 in an Advanced Placement, or an advanced or a dual credit course in English/Language Arts, mathematics, science, social studies, economics, or a foreign language) in any academic class may not participate in extra-curricular activities for at least three school weeks. The student becomes ineligible seven (7) days after the last day of the six-weeks grading period. For example, if the six-week grading period ends at 2:35 p.m. on Friday, October 4, the suspension would take effect at 2:35 p.m. on Friday, October 11.

A student regains eligibility seven calendar days after the school’s three-week evaluation period, if the student is passing all courses on that last class day. The student’s work is evaluated from the first class day of the new grading period to the end of the three school week evaluation period. If the student has at least a minimum grade of 70 on a scale of 70 -100 for work done since the end of the previous grading period, the student may regain eligibility seven calendar days later at the time the regular school day ends. Parents and students are encouraged to consult the coach/sponsor if there is a question. Note: Schools taking breaks of one week or more are reminded that those weeks do not count as part of this period. All students are eligible during this time.

Students who assist the sponsor or coach, such as student managers, must meet all academic eligibility requirements even though they do not participate in the performance or contest. Students must also be in attendance at least one half-day prior to competition or practice to be eligible for either practice or activity. Lastly, a student receiving a course grade of “I” (Incomplete, pending completion of required work) is considered ineligible until the “I” is replaced with a passing grade for that grading period.

Courses Exempted From No Pass / No Play

Below is a list of advanced courses to be exempted for No Pass - No Play purposes, as per SB 1517, section 33.081 Education Code. For the purpose of determining student eligibility in extracurricular activities on-campus or off-campus, a grade below 65 in any of these classes will make a student ineligible for those extracurricular activities for at least three school weeks. Refer to “Interscholastic Competition Eligibility” for additional explanation.

<table>
<thead>
<tr>
<th>Advanced Debate II-IV</th>
<th>AP US History</th>
<th>AP Statistics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced English I-II</td>
<td>AP World History</td>
<td>Advanced Biology</td>
</tr>
<tr>
<td>AP English Language &amp; Composition</td>
<td>AP Music Theory</td>
<td>Advanced Chemistry</td>
</tr>
<tr>
<td>AP English Literature &amp; Composition</td>
<td>AP 2-D Art and Design</td>
<td>AP Biology</td>
</tr>
<tr>
<td>ACADEC I-IV</td>
<td>AP 3-D Art and Design</td>
<td>AP Chemistry</td>
</tr>
<tr>
<td>Advanced World Geography</td>
<td>AP Drawing</td>
<td>AP Environmental Science</td>
</tr>
<tr>
<td>Advanced World History</td>
<td>Advanced Spanish II-III</td>
<td>AP Physics 1</td>
</tr>
<tr>
<td>AP European History</td>
<td>AP Spanish Language</td>
<td>AP Physics 2</td>
</tr>
<tr>
<td>AP Human Geography</td>
<td>Advanced Algebra I-II</td>
<td>AP Computer Science A</td>
</tr>
<tr>
<td>AP Macroeconomics</td>
<td>Advanced Geometry</td>
<td>AP Computer Science Principles</td>
</tr>
<tr>
<td>AP Psychology</td>
<td>Advanced Pre-Calculus</td>
<td>All Dual Credit &amp; Dual Credit CTE courses</td>
</tr>
<tr>
<td>AP US Government</td>
<td>AP Calculus</td>
<td>All year-long Project Lead the Way courses</td>
</tr>
</tbody>
</table>
The Advanced Placement (AP) Program is a program of college-level courses and exams for secondary students provided on the high school campus. The Advanced Placement Program is administered by the College Board and is a national program. For students who are willing and able to apply themselves to college-level studies while in high school, the program enriches both the secondary and post-secondary educational experience. It also provides the means for colleges to grant credit, placement or both to students who have attained a high level of mastery on an AP Exam. Approximately 2,200 colleges receive these grades and use them as the basis for granting credit and/or placement to entering students whose scores meet their requirements. Colleges may award credit based on the score of the AP Exam. All students enrolled in AP courses will be required to take the AP exam and will pay for the exam(s) at the beginning of the school year. The approximate cost of the exam is $94. Financial assistance is available for students that qualify, based on their enrollment in the Federal Free and/or Reduced Lunch Program. If a payment plan is required, contact the school administration.

MISD offers these Advanced Placement courses:

- 0532 AP Language and Composition
- 0542 AP Literature and Composition
- 1063 AP Calculus AB
- 1071 AP Statistics
- 1523 AP Biology
- 1533 AP Chemistry
- 1542 AP Physics I
- 1543 AP Physics II
- 1562 AP Environmental Science
- 2013 AP Human Geography
- 2023 AP World History
- 2024 AP European History
- 2032 AP U.S. History
- 2042 AP U.S. Government
- 2053 AP Macroeconomics
- 2062 AP Psychology
- 4042 AP Spanish Language
- 4372 AP Music Theory
- 4562 AP 2-D Art and Design
- 4563 AP 3-D Art and Design
- 4564 AP Drawing
- 5816 AP Computer Science Principles
- 5812 AP Computer Science A

Advanced Course & Advanced Placement (AP) Criteria

Advanced Placement courses offer special opportunities for motivated students to pursue academic work that challenges their interests and abilities. These courses offer an environment designed to encourage higher level academic achievement. The student must have mastered the most recent state assessments taken to be eligible for these classes. An Advanced/AP Student/Parent Contract must be submitted along with course registration form.

Successful students are task-oriented, proficient readers, able to prioritize their time and have parental support. A grade of 65 or above in an Advanced/AP/DC class meets UIL eligibility standards. However, a grade of 65-69 is not considered a passing grade in regard to satisfactory progress.

A student who enrolls in an AP class will be required to take the AP exam associated with the class. Payment deadlines for the AP exam will be determined by your campus. Failure to pay for the AP exam will result in the removal of the student from the AP class.

Students may exit an Advanced/AP course with parent approval within the first 10 days of the beginning of school or with teacher grade verification at the end of the 1st six weeks of the first semester if they have an average below 75 or they may exit at the end of the first semester. If there is no level course for students to exit to, then the student must remain in the class. When a student transfers from an Advanced/AP course, the grades for that student will transfer to the course in which the student enters. If a student moves at the end of the 1st six weeks grading period, the grade transfers to the level class and to a level grade. If a student moves at the end of the semester, the semester grade will receive the advanced grade points.

COURSES THAT STUDENTS MAY NOT SELF-ELECT FROM AS NO EQUIVALENT LEVEL COURSE IS AVAILABLE:

- 0572 Advanced Debate II
- 0573 Advanced Debate III
- 0574 Independent Study In Speech / Debate IV Advanced
- 1063 AP Calculus AB
- 1071 AP Statistics
- 1523 AP Biology
- 1533 AP Chemistry
- 1543 AP Physics II
- 1562 AP Environmental Science
- 2024 AP European History
- 2053 AP Macroeconomics
- 2062 AP Psychology
- 2081 ACADEC I
- 2082 ACADEC II
- 2083 ACADEC III
- 2084 ACADEC IV
- 4042 AP Spanish Language
- 4372 AP Music Theory
- 4562 AP 2-D Art and Design
- 4563 AP 3-D Art and Design
- 4564 AP Drawing
- 5812 AP Computer Science A
- 5816 AP Computer Science Principles
DUAL CREDIT (DC) COURSES

Dual Credit allows a student to earn high school credit while completing a college course. Dual credit is part of the Lone Star College System, designed specifically for high school juniors and seniors ready for college-level instruction. A dual credit world language course is available for sophomores with successful completion of both Spanish I & II and qualifying scores. Students who demonstrate college readiness on a placement exam can earn college and high school credits simultaneously by attending classes at their high school or at Lone Star College. Many of the classes are transferable to public colleges or universities in Texas, and some are accepted by out-of-state and private colleges.

MISD offers Academic Dual Credit in these LSC Courses:

- English 1301/1302
- English 2322/2332
- College Algebra 1314
- Math for Business & Social Science 1324
- Statistics 1342
- Calculus for Business & Social Sci. 1325
- US History 1301/1302
- Federal Government 2305
- Texas Government 2306
- Macroeconomics 2301
- Microeconomics 2302
- Psychology 2301
- Sociology 1301
- Spanish 1411/1412
- Spanish 2311/2312
- Criminal Justice 1301/1306

Workforce Dual Credit is designed to allow high school students to enroll in LSCS credit workforce programs and receive high school credit for career and technical classes. Students who participate in these classes/programs will graduate with career skills and in many cases, a certification approving them for employment in their industry. Fees and supplies for these courses typically average between $200 and $300.

Auto Technology 1405/1407 1410/1416
EMT 1305 1160/1501
Machining 1302/1343 1383/1352
Welding 1417/1421 1428/1457

- Dual credit courses are college level academic or technical courses taken by high school students for which they receive high school credit and college credit concurrently.
- Typically, courses are open to students in grades 11-12 (including summer of the sophomore and junior year) who are in good academic standing.
- The MISD Board of Trustees shall approve courses in which high school credit shall be granted.
- Specific requirements will be provided by the high school dual credit coordinator.
- Students successfully completing a dual credit course will receive weighted GPA points.
- If a student earns a D or below, the student will be dropped from the program and may no longer take dual credit courses.
- Transportation is the responsibility of the parent and student. The district is not liable for injury occurring once the student leaves campus.
- Credit shall not be awarded without the official presentation of the college transcript or grade report to the dual credit coordinator within ten school days of the grades being posted.
- There is no guarantee of credits being transferred to other colleges or universities.

Dual Credit Eligibility Requirements:
- The student has a current admissions application on file with LSCS.
- The student has an admission form with approvals from their high school dual credit coordinator, college designee, and parent/guardian.
- The student has taken an approved assessment:
  - TSI (reading, writing, and/or math relevant to the courses being taken) or
  - Exempt scores based on ACT or SAT.
  - For dual credit students who do not have exemption scores in all sections of the SAT and/or ACT, additional assessment will be required.
- Students shall notify the dual credit coordinator if there is a change in their status at the college/university.
- Credit shall not be awarded without the official presentation of the college transcript or grade report to the dual credit coordinator within ten school days of the grades being posted.
- There is no guarantee of credits being transferred to other colleges or universities.
- The student may be eligible to enroll in workforce education dual credit courses in the eleventh and/or twelfth grade if the student achieves the workforce admissions standards.

Procedures for Withdrawing from Dual Credit:
- Meet with dual credit coordinator
- Complete Lone Star College drop form
- Apply for credit refund in accordance with Lone Star’s drop and withdrawal schedule

Concurrent Credit – Juniors or Seniors who meet entrance requirements of a college/university and who have approval from the MISD dual credit coordinator may take other classes at a college or university that will count for college credit but not for high school credit.
COMPARING ADVANCED PLACEMENT AND DUAL CREDIT

Knowing the differences between Advanced Placement and Dual Credit courses will assist you in planning for both high school and college courses.

ADVANCED PLACEMENT VS. DUAL CREDIT CHART

<table>
<thead>
<tr>
<th>Description</th>
<th>Advanced Placement (AP)</th>
<th>Dual Credit (DC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allows students to take college-level courses and exams, and to earn college credit or placement while still in high school.</td>
<td>Allows high school students to earn both high school and college credit by completing courses at their high school and/or college campus.</td>
<td></td>
</tr>
<tr>
<td>Students seeking credit through their AP Exam scores should note that individual colleges and universities, not the College Board, the AP Program or the high school, grant course credit and placement.</td>
<td>Credit is awarded when the student passes the course. Students must pass a DC course with a C or higher to remain in the dual credit program.</td>
<td></td>
</tr>
<tr>
<td>Taught by specially trained high school teachers.</td>
<td>Taught by college instructors and/or high school teachers who serve as adjunct professors.</td>
<td></td>
</tr>
<tr>
<td>Accepted throughout the nation. See individual college for their policy.</td>
<td>Check with individual college for your intended major’s academic requirements.</td>
<td></td>
</tr>
<tr>
<td>Courses are taught on the high school campus.</td>
<td>Courses can be taught on the high school or college campus.</td>
<td></td>
</tr>
<tr>
<td>Open to any student.</td>
<td>Must be currently attending high school and classified as a Sophomore, Junior, or Senior.</td>
<td></td>
</tr>
<tr>
<td>Approximately $94 per test.</td>
<td>Must have a college placement score on the SAT, ACT, or TSI.</td>
<td></td>
</tr>
<tr>
<td>Provided by the school.</td>
<td>Parent/guardian and counselor approval.</td>
<td></td>
</tr>
<tr>
<td>Courses are weighted in the high school GPA.</td>
<td>The cost is $73-$121 per 3 credit hour academic course. Payment to LSCS upon registration.</td>
<td></td>
</tr>
<tr>
<td>Students may request a schedule change from an advanced/AP class under the following two conditions: 1) A grade of “74” or below for the 1st six weeks 2) At the conclusion of the 1st semester</td>
<td>Student is responsible for textbooks.</td>
<td></td>
</tr>
</tbody>
</table>

SCHEDULE CHANGES

Administrators select and hire teachers and create the master schedule based on the courses requested by students. After selecting required courses, students should choose electives and alternates carefully. Those decisions are binding. Schedules are determined by course selections; therefore, schedule changes will ONLY be made if:

- Senior not enrolled in a class REQUIRED for graduation
- Student scheduled for a class for which he/she already has credit
- Student is scheduled into a class for which the student does not have the prerequisite
- Student not enrolled in an application/audition course for which they were approved
- Counselor’s scheduling error
- Balancing of class sizes
- Student needs to add a course to be a full time student/has an incomplete schedule
- Student is cut from any extracurricular program (WITHIN THE CUT DEADLINE)
- IEP/504 Committee decision
- Student not scheduled in elective pathway
- Students may request a schedule change from an advanced/AP class under the following two conditions:
  1) A grade of “74” or below for the 1st six weeks
  2) At the conclusion of the 1st semester

Note: Grade points are awarded for courses at semester. If a student moves at the end of the 1st six weeks grading period, the grade transfers to the level class and to a level grade. If a student moves at the end of the semester, the semester grade will receive the advanced grade points. How to handle a schedule concern (Please note that if your schedule reflects those courses and alternates requested on your course selection form, YOU HAVE NO SCHEDULE CONCERNS.)

- Students must complete and turn in the Schedule Concern-Error Notification Form, which is available in the Counseling Center, no later than 10 instructional days after the first day of class
- Until your concern is addressed, YOU MUST FOLLOW YOUR CURRENT SCHEDULE
- No student is to leave a class for a schedule concern unless sent for by a counselor
- Requests that are NOT turned in by the deadline stated on the form will not be honored

The following Schedule Change requests will not be approved:
• Requests for a TEACHER change
• Requests for a lunch change
• Requests for an elective change
• Requests to drop a course after the drop deadline
• Requests to add a course after the add deadline
• Requests to drop an advanced course after the drop deadline
• Requests for a period change

**Lost schedule?**
Students will receive their official schedule on the first day of each semester. Students must present this official schedule to each instructor the first time they enter each class.

**How to handle a teacher concern**
Montgomery ISD hires only highly qualified staff members and therefore does not allow teacher changes. If a concern with a teacher comes to our attention, our goal is to address the concern and develop a plan to help the student be successful in their current placement.

Students or parents who have a concern should first contact the appropriate staff member and schedule a parent-teacher conference. The most direct route to resolving a concern is to confer directly with the person involved, whether it is a teacher, coach, sponsor, or etc. If the outcome of that meeting is not satisfactory, they may also speak to the department chair to try to resolve the concern. If the concern is still not resolved, they should request a conference with campus administration. Please note that time is required to collect relevant data on the conflict, so scheduling a conference in advance is required.

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**IMPORTANT INFORMATION FOR SENIORS**

**Pass / Fail Courses**
Guidelines and conditions for selecting a course to be taken on a PASS/FAIL basis: MISD shall permit a fourth year student who has reached senior status to take, during each semester, up to two courses not required for graduation credit under the student’s graduation program. Grades earned as pass/fail will not count toward class rank. The following terms and conditions apply. **PASS/FAIL PERMISSION FORMS are available in the Counseling Center.**

The student shall:
1. Have passed all sections of their state-mandated testing requirements for graduation.
2. Be required to have written parental permission.
3. Be required to take concurrently at least four courses for traditional grades.
4. Declare pass/fail status at the time of course selection or no later than the tenth day the class meets for the semester in which the course will be taken. Once pass/fail status has been selected by the student, it cannot be changed back during that semester.
5. The student will be given a numerical grade each six weeks. At the end of the semester, a grade of pass/fail will be placed on the report card. Final exemption guidelines for senior exemptions set out in the student handbook shall apply to pass/fail courses.
6. The student and parent are responsible for verifying with any college or university to which the student plans to apply that pass/fail courses will be accepted for credit.
7. In order to maintain eligibility in extracurricular activities while taking courses on a pass/fail basis, a student shall be required to make a passing grade each six weeks.

**Honor Graduates**

**Valedictorian:** The four-year graduate with the highest GPA holds the honor of valedictorian. A three-year graduate with a GPA as high as or higher than the highest four-year graduate shall be considered tied for valedictorian honors, and salutatorian status will not be affected. In order to be eligible for valedictorian, a student must be in attendance for four consecutive semesters of his/her final two school years.

**Salutatorian:** The four-year graduate with the second highest GPA holds the honor of salutatorian. A three-year graduate with a GPA as high as or higher than the second-highest four-year graduate but less than the valedictorian will be considered tied for salutatorian honors. In order to be eligible for salutatorian, a student must be in attendance at MISD four consecutive semesters of his/her final two school years.

**State of Texas Top 10% Graduates:** This group of students consists of both three-year and four-year graduates that fall among the top 10% of the graduating class at the time of official rankings. They are eligible for automatic admission to any public university in Texas, except the University of Texas based upon their sixth semester GPA and ranking. To be eligible for automatic admission, a student must:

- Graduate in the top 10% of his/her class at a public or private high school in Texas;
- Enroll in college no more than two years after graduating from high school; and since deadlines vary, students should check with the specific university to verify the application deadline.
- Submit an application to a Texas public university for admission before the institution’s application deadline.
State supported colleges and universities may limit the number of first-time freshmen admitted under this policy if the number of first-time freshmen eligible for admission exceeds, by more than 10%, the average size of the first-time freshmen classes admitted the previous two years.

Honor Graduates: This group of graduates is determined after the final senior class ranking following the First Semester. It includes the top 10% of the graduating class consisting of the three-year and four-year graduates as determined by the State of Texas Top 10% guidelines as well as any four-year graduates that may have been displaced by the addition of the three-year graduates. This group, therefore, may include slightly more than 10% of the graduating class. In accordance with Texas Education Code (TEC), §28.026, and Texas Administrative Code (TAC), §61.1201, school districts are required to provide eligible students with written notification of eligibility for automatic college admission under the Uniform Admission Policy (TEC §51.803). No later than the 14th day after the last day of classes for the fall semester, a campus designee shall notify each eligible senior, each junior with a grade point average in the top ten percent, and each student's parent or guardian of the student’s eligibility for automatic college admission.

Early Graduation
A student wanting to participate in graduation exercises and receive a diploma in less than four years shall make written application to the counselor during his/her Sophomore year. The student will receive counseling regarding early high school graduation. Early graduation students will be ranked with the graduation class according to his/her GPA as addressed in the previous section on “Class Ranking.” Valedictorian, salutatorian, State of Texas Top 10% and high school Honor Graduate designations are addressed in the previous section on “Honor Graduates.” *Please Note: Students may not graduate early on the Foundation High School Plan without an endorsement approved by the IGC.

College Admission Eligibility Requirements (House Bill 3826)
Effective September 1, 2007 and thereafter, this law states that institutions of higher learning shall admit any applicant who is the child of a public servant killed or having sustained a fatal injury in the line of duty. Applicants need to meet the minimum requirements of the institution of higher learning.

Certificate Award / 4-Year Special Service Student (Senate Bill 673)
Students receiving special education services can opt to participate in the graduation ceremony after their fourth year of high school. A certificate of attendance will be issued instead of a diploma to allow students to participate in commencement exercises with their same age peer/class cohort. The statute limits student participation to only one graduation ceremony.

Texas Public University / College Automatic Admission
Students graduating in the top 10% of our school’s graduating class are granted automatic admission into a Texas public four-year university or college for two years following graduation, except for the University of Texas (UT). UT sets the top graduating percentage and it is posted on their website. To qualify for this automatic admission, students must complete one of the following two criteria:

1. Complete the Texas Foundation High School with Endorsement Graduation Plan.
2. Satisfy the College Readiness Benchmarks.

<table>
<thead>
<tr>
<th></th>
<th>ACT Score</th>
<th>SAT Score</th>
<th>TSI Score*</th>
</tr>
</thead>
<tbody>
<tr>
<td>English: 18**</td>
<td>EBRW 480</td>
<td>Writing: 340 with 4 on essay***</td>
<td></td>
</tr>
<tr>
<td>Reading: 22</td>
<td>-</td>
<td>Reading: 351-390</td>
<td></td>
</tr>
<tr>
<td>Mathematics: 22</td>
<td>Math 530</td>
<td>Mathematics: 350-390</td>
<td></td>
</tr>
<tr>
<td>Science: 23</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

* TSI is changing in Spring 2021, check with the Counseling Center for qualifying scores.
** Lone Star College requires a composite score of 23 on the ACT with at least a 19 in English and at least a 19 in Math to be exempt from taking the TSI. Scores must be less than 5 years old and achieved in one sitting.
*** A placement score of less than 340, and an ABE Diagnostic level of at least 4, and an essay score of at least 5.

**EARLY RELEASE/LATE ARRIVAL**

Early release and late arrival are for seniors only. Credits, grades, attendance, and discipline are all taken into consideration. See campus criteria.
COLLEGE CREDIT COURSES

Students in grades 9-12 have opportunities to earn college credit through the following methods:

- Advanced Placement (AP) Courses and/or Dual Credit (DC) Courses taught in conjunction and in partnership with Lone Star Community College, which may be offered on the high school campus, the Lone Star Campus, or online;
- Enrollment in an AP or dual credit course through the Texas Virtual School Network (TxVSN);
- Enrollment in courses taught at other colleges or universities; and certain high school CTE courses.

COLLEGE ENROLLMENT/FINANCIAL AID/SCHOLARSHIPS

Higher education and technical skills are important for most careers in our highly complex world. Information to aid in planning for post-secondary education, universities, technical schools or military service is available through the College and Career Center. Free information on college preparation for middle and high school students, easy-to-understand descriptions of the different types of student financial aid available, insights to popular careers, plus links to every college website in Texas are available at www.CollegeforAllTexans.com. Student and parent orientations are provided during registration to address high school course selection related to post-secondary education.

Some important information to consider when planning secondary (high school) coursework and post-secondary (college and technical school) entrance is listed below:

1. Traditionally students ranked in the top 6%-10% of their graduating class are eligible for automatic admission to most public universities in Texas. Specific requirements are addressed in the previous section on “Honor Graduates.”

2. Colleges and universities have course entrance requirements that may be above those required for graduation from high school. Some colleges and universities in Texas now require students to graduate under the FHSP with Endorsement as an admission requirement.

3. SAT or ACT college entrance examinations are required for admission to four-year colleges and universities. Consult college catalogs and/or websites to determine which test to take and deadlines. Registration forms and prep materials are available in the Counseling Center or on the SAT/ACT websites. It is the student’s responsibility to determine testing dates and registration deadlines, register for the test and pay any registration or related fees for the test. Students should take these exam(s) before January if they intend to apply for financial assistance. For information on SAT registration and deadlines, visit the College Board website at www.collegeboard.org. For information on ACT registration and deadlines, visit the ACT website at www.act.org.

Students are encouraged to select their college early in their high school career. Once accepted by a college, students are generally notified of summer orientation programs. Students are encouraged to attend these orientations. Students attending Texas public colleges and universities can use the Apply Texas Application, which is available online at www.applytexas.org. Current information on specific college/university entrance applications and entrance requirements should be requested from the college or university. All students should fill out the FAFSA (Free Application for Federal Student Aid) during their senior year which is available online at https://fafsa.ed.gov. This must be on file in the financial aid office of the college or university you plan to attend to determine if you are eligible for state, federal or institution financial aid in the form of grants, scholarships and/or loans. Scholarship information is posted on the high school website. Parents are encouraged to contact their employers regarding scholarships they may offer to children of their employees.

Beginning in 2021-2022, each student must do one of the following in order to graduate:

- complete and submit a free application for federal student aid (FAFSA)
- complete and submit a Texas application for state financial aid (TASFA)
- submit a signed opt-out form
Financial Aid Waiver

I, ___________________________________________, will not be submitting the Free Application for Federal Student Aid (FAFSA) or the Texas Application for State Financial Aid for the aid year 2020-2021 because of one of the following:

☐ Military Enlistment
☐ Career Placement
☐ Refusal
☐ Other – Please explain

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

Signature __________________________ PISD ID# ____________ Date ____________

Submitted to ____________________________________________ on _____________
GRADE POINT SYSTEM

Class ranking is determined by the student’s GPA. The GPA is calculated by averaging semester grades earned in all high school credit courses taken in grades 9-12. The calculation of class rank and GPA excludes grades earned in or by: summer school; credit by examination, with or without prior instruction; night school; pass/fail courses; distance learning; student aide credits; and grades earned prior to grade 9 for high school credits.

### MISD GRADE POINT SYSTEM

<table>
<thead>
<tr>
<th>GRADE</th>
<th>MODIFIED*</th>
<th>LEVEL†</th>
<th>ADVANCED‡</th>
<th>AP / DC§</th>
<th>LONE STAR/DUAL CREDIT</th>
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* Modified Content Courses: The District shall categorize and weight as Modified Content each eligible course for which a student’s Individual Education Plan (IEP) Committee has modified the required content in relation to the Texas Essential Knowledge and Skills (TEKS) and has reflected these changes in the student’s IEP.

† Level Courses: All eligible courses not considered Dual Credit, Advanced Placement, Advanced or Modified in content shall be categorized and weighted as Level Courses.

‡ Advanced Courses: Eligible courses locally designated as advanced courses in the course selection guide shall be categorized and weighted as Advanced Courses.

§ Advanced Placement/Dual Credit: All College Board recognized Advanced Placement and Dual Credit courses shall be categorized and weighted as Advanced Placement/Dual Credit.
Grade Equivalent And Conversion Scale

TRANSFER GPA/CREDIT POLICY:
MISD accepts all grades and credits (including summer school, CBE and correspondence courses) required for graduation earned at any accredited public school within Texas.

Advanced, Advanced Placement (AP) and Dual Credit grade points will only be given for those advanced, AP and Dual Credit courses offered to MISD students. If the course isn’t offered in MISD, the AAR will indicate the course as advanced, AP or Dual Credit, and it will carry level grade points.

Transcripts and coursework for students transferring from non-accredited schools (including home schooling) will be evaluated to verify if the content of courses for which the student has received instruction and/or earned credit meets the criteria approved by the SBOE for Grades 9 through 12 relating to TEKS. The campus principal or designee will determine if additional verification of course content mastery is necessary in order to award credit.

GRADES FROM OTHER SCHOOLS WILL BE CONVERTED TO THE MISD GRADING SCALE AS STATED IN THE FOLLOWING POLICY:

- If transfer grades from other schools are reported in letter grades or percentages with no conversion scale provided, grades will be converted to the state and MISD grade conversion scale as follows:
  - A+ = 99  B+ = 89  C+ = 79  D+ = 74  F = 69
  - A = 95  B = 85  C = 77  D = 72
  - A- = 92  B- = 82  C- = 75  D- = 70
- Numerical grades and award of credit will be accepted from other districts as they are printed on their official transcript. For numerical grades from districts where the passing standard is less than 70, a designation of “P” will be used to award credit. However, grade points will not be assigned. Numerical grades, which are not passing in the sending school, will not receive credit or grade points in high school for those courses.
- If transfer grades from other schools are reported in letter grades or percentages, MISD will honor the conversion scale printed on the official transcript or provided in writing from an official of the sending school.
- If a student’s transcript reflects a grading scale different from the circumstances stated above, every effort will be made to convert the grades as closely as possible to the MISD grading scale.

HIGH SCHOOL GRADES, FOR NCAA ELIGIBILITY CONSIDERATION, EQUATE TO THE FOLLOWING:

<table>
<thead>
<tr>
<th>Grade</th>
<th>GPA</th>
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<tr>
<td>100-90</td>
<td>A (4.0 quality points)</td>
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<td>89-80</td>
<td>B (3.0 quality points)</td>
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<td>79-70</td>
<td>C (2.0 quality points)</td>
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<tr>
<td>69 or below</td>
<td>F (0 quality points)</td>
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Academic Letter

An Academic Letter is awarded to students that have maintained a 3.5 GPA for four semesters. The four semesters do not have to be consecutive. Students that meet the requirements need to sign up with the registrar. Academic Letters are awarded in the spring.

Class Ranking

Senior Rankings are released each year in September and February. Final rankings will be calculated after the Fall Semester. The three-year graduate will be ranked with the graduating class according to his/her GPA.

Junior rankings are released at the end of the 1st, 4th, and 6th grading periods each year.

Sophomore and Freshman rankings are released at the end of the 4th and 6th grading periods each year.

Students who have not completed attendance requirements by the date class ranks are computed will be ranked as credit attempted but no credit received. The class rank will not be recalculated at the time the credit is earned, but at the next scheduled time for the appropriate grade level.
NCAA FRESHMAN-ELIGIBILITY STANDARDS

Division I academic eligibility

To be eligible to compete in NCAA sports during your first year at a Division I school, you must graduate high school and meet ALL the following requirements:

Complete 16 core courses:
- Four years of English
- Three years of math (Algebra 1 or higher)
- Two years of natural/physical science (including one year of lab science if your high school offers it)
- One additional year of English, math or natural/physical science
- Two years of social science
- Four additional years of English, math, natural/physical science, social science, foreign language, comparative religion or philosophy
- Complete 10 core courses, including seven in English, math or natural/physical science, before your seventh semester. Once you begin your seventh semester, you may not repeat or replace any of those 10 courses to improve your core-course GPA

Earn at least a 2.3 GPA in your core courses.

Earn an SAT combined score or ACT sum score matching your core-course GPA on the Division I sliding scale, which balances your test score and core-course GPA. If you have a low test score, you need a higher core-course GPA to be eligible. If you have a low core-course GPA, you need a higher test score to be eligible.

Division II Academic Eligibility

If you enroll BEFORE August 1, 2018

To be eligible to compete in NCAA sports during your first year at a Division II school, you must meet core courses, grade-point average (GPA) and test scores. You must graduate high school and meet ALL the following requirements:

Complete 16 core courses:
- Three years of English.
- Two years of math (Algebra 1 or higher).
- Two years of natural or physical science (including one year of lab science if your high school offers it).
- Three additional years of English, math or natural or physical science
- Two years of social science
- Four additional years of English, math, natural or physical science, social science, foreign language, comparative religion or philosophy

Earn at least a 2.0 GPA in your core courses.

Earn an SAT combined score of 820 or an ACT sum score of 68. Remember, if you took the SAT on or after March 2016 you need to compare your score on the College Board concordance table. The 820 score is after the concordance table is applied.

Division II Academic Eligibility

If you enroll AFTER August 1, 2018

To be eligible to compete in NCAA sports during your first year at a Division II school, you must meet academic requirements for your core courses, grade-point average (GPA) and test scores. You must graduate high school and meet ALL the following requirements:

Complete 16 core courses:
- Three years of English.
- Two years of math (Algebra 1 or higher).
- Two years of natural or physical science (including one year of lab science if your high school offers it).
- Three additional years of English, math or natural or physical science
- Two years of social science
- Four additional years of English, math, natural or physical science, social science, foreign language, comparative religion or philosophy

Earn at least a 2.2 GPA in your core courses.

Earn an SAT combined score or ACT sum score matching your core-course GPA on the Division II sliding scale, which balances your test score and core-course GPA. If you have a low test score, you need a higher core-course GPA to be eligible. If you have a low core-course GPA, you need a higher test score to be eligible.

For the latest information, on NCAA requirements and eligibility visit:
The NCAA Future Student Athlete page - http://www.ncaa.org/student-athletes/future
The NCAA Eligibility Center page - http://www.legibilitycenter.org
ENGLISH LANGUAGE ARTS

0511  English I  9-12
0521  English II  10-12
0531  English III  11-12
0541  English IV  12

Grammar, composition, vocabulary, reading and literature are explored and studied. Listening and speaking skills will be used in analyzing and interpreting information. Available technology, including databases and the internet, will be utilized in all courses in the sequence for research papers. English I and II offer a comprehensive study of grammar and practice in basic reading and writing skills; literature instruction will be by theme. English III offers a study of American literature, while English IV offers the study of British literature. English I-IV is taken in sequence.

Prerequisites - Courses to be taken sequentially
Term:  Year  Credit:  1.0 English State Credit

0512  Advanced English I  9-10
0522  Advanced English II  9-10

Advanced English I and II are designed to prepare students for the English AP Exam given at the junior/senior level. These courses include extensive independent reading in all genres of world literature, development of higher level critical thinking skills, and the use of the writing process to compose various forms of discourse for a variety of audiences and purposes. Students must be prepared to devote considerable hours to independent readings and outside projects.

Prerequisites - See Advanced Criteria
Term:  Year  Credit:  1.0 English State Credit
This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses. Purchase of novels may be required.

0532  AP Language and Composition  11

AP Language & Composition is designed to provide students with an opportunity to complete the equivalent of a college level rhetoric and composition course. Students will read mainly non-fiction from a variety of periods, disciplines, and rhetorical contexts. The course develops writing techniques, research skills, and analysis of literature necessary for college success. Students must be prepared to devote considerable time to writing.

Prerequisites - English II/See AP Criteria/Admissions Committee Approval
Term:  Year  Credit:  1.0 English State Credit
This course receives AP/DCC weighting in the GPA. See AP criteria.

0533  Dual Credit English III (Eng 1301/1302 for Juniors)  11

First semester, students receive credit for ENGL 1301 at LSCS. Intensively studies and practices the writing process, from invention and researching to drafting, revising, & editing. Focuses on writing argumentative essays ethically & effectively with rhetorical choices of audience, purpose, organization, and style, as well as rhetorical inquiry and primary and secondary research. Second semester, students receive credit for ENGL 1302 at LSCS. A continuation of 1301. Emphasizes critical reading of literature and developing arguments based on author's rhetorical choices and literary elements like theme, plot, and characterization.

Prerequisites - Passing Entrance Tests Scores As Determined By Lone Star College/See Dual Credit Criteria/Eng II
Term:  Year  Credit:  1.0 English State Credit
This course receives AP/DCC weighting in the GPA. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria.

0534  College Readiness English (Dual Credit Integrated Reading and Writing II)  12

This is a combined lecture/lab, performance-based course designed to develop students' critical reading and academic writing skills for college English courses. The course integrates preparation in basic academic reading skills with basic skills in writing a variety of academic essays. The course fulfills TSI requirements for reading and writing. This course carries institutional credit but will not transfer and may not be used to meet degree requirements - ENGL 0309. This course prepares students for Dual Credit ENGL 1301.

Prerequisites - English III
Term:  Year  Credit:  1.0 English State Credit
This course does NOT receive advanced weighting in the GPA. This course can only be taken as a 4th English credit.

0542  AP Literature and Composition  12

AP Literature & Composition is designed to provide college level studies for students with an above average ability in English III who are planning to enter a four-year university upon high school graduation, and help prepare for the AP Literature and Composition Exam. Students will read and analyze British literary works in class and will read widely outside of class. The instruction provides the students with sophisticated techniques for success in writing on a college level.

Prerequisites - English III/See AP Criteria/Admissions Committee Approval
Term:  Year  Credit:  1.0 English State Credit
This course receives AP/DCC weighting in the GPA. See AP criteria.

0543  Dual Credit English IV (Eng 1301/1302 for Seniors)  12

See course description for Dual Credit English III (Eng 1301/1302 for Juniors).

Prerequisites - Passing Entrance Tests Scores As Determined By Lone Star College/See Dual Credit Criteria/English III
Term:  Year  Credit:  1.0 English State Credit
This course receives AP/DCC weighting in the GPA. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria.

0544  Dual Credit English IV (Eng 2332/2333)  12

First semester, students receive credit for ENGL 2332 at LSCS. This course is a survey of world literature from the ancient world through the 16th century. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions. Second semester, students receive credit for ENGL 2333 at LSCS. This class develops the skills needed in the writing of technical papers, reports, proposals, progress reports and descriptions. The course also briefly covers oral reporting.

Prerequisites - Dual Credit English III (Eng 1301/1302 for Juniors), Passing Entrance Tests Scores As Determined By Lone Star College/See Dual Credit Criteria/English III
Term:  Year  Credit:  1.0 English State Credit
This course receives AP/DCC weighting in the GPA. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria.
0545  Film as Literature  12
This course emphasizes film as literature with a focus on film history, techniques, and genres. Using film as text, students explore the relationships in visual media among concept, theme, structure, and style. Focusing on film as an intellectual and visual puzzle to be discovered like a book or short story, students are encouraged to develop analytical skills and refine their critical abilities through the viewing of modern and classic films. Students can expect required readings, writing, discussions, and multimedia projects.
Prerequisites - English I, English II, English III
Term: Year  Credit: 1.0 English State Credit
This course can only be taken as a 4th English credit.

0551  English I For Speakers of Other Languages  9-12
This course is designed for students who have a primary language other than English. This course may take the place of regular English I.
Prerequisites - LPAC Decision
Term: Year  Credit: 1.0 English State Credit

0552  English II For Speakers of Other Languages  9-12
This course involves an accelerated exposure to journalistic practices with an emphasis on effective writing skills for news, features, editorials and sports. In addition, computer skills must be applied for implementation of assignments.
Prerequisites - Debate III/See Advanced Criteria
Term: Year  Credit: 1.0 State Elective Credit

0554  Creative Writing  12
This course will provide a writing workshop for those students interested in the creative aspect of writing. The student will analyze various literary works in different genres. Original works will be produced by the student in the form of short stories, plays, poems, and various non-fiction pieces. Opportunities will be offered to students who wish to have their work published.
Prerequisites - English I, English II, English III
Term: Year  Credit: 1.0 English State Credit
This course can only be taken as a 4th English credit.

0561  Professional Communication  9-12
Emphasizing the application of communication skills in business, professional, and social settings, this course includes oral presentations and concentrates on the communication process, interpersonal communication, and group communication.
Prerequisites - None
Term: Semester  Credit: 0.5 State Elective Credit

0562  Student Leadership  10-12
This course is designed for student leaders. In order to enroll in this course students must be in good academic standing, and have no major discipline referrals. This course is a hands-on, lab oriented approach to leadership that provides opportunities to study, practice, and develop group and individual leadership and organizational skills. Students will learn the structure of leadership, responsible citizenship, goal setting, group process, evaluation, communication, and organization and managerial skills.
Prerequisites - Admissions Committee Approval
Term: Year  Credit: 1.0 State Elective Credit

0571  Debate I  9-12
0572  Advanced Debate II  10-12
0573  Advanced Debate III  11-12
This course involves editor duties associated with the school yearbook along with individual projects assigned by the teacher.
Prerequisites - 2 Years of Yearbook/Admissions Committee Approval
Term: Year  Credit: 1.0 State Elective Credit
This course may be taken as a 4th English credit.
### MATHMATICS

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#### Prerequisites

- **Algebra I / See Advanced Criteria**
  - **Advanced Criteria**
    - Designed for students showing an advanced aptitude and superior math skills. In addition to the strands listed for Algebra I, this advanced course is designed to prepare students for entry into AP mathematics courses. The course goes beyond the on-level Algebra I content with a wider range and greater depth of subject matter. The content assessments require students to synthesize their learning and apply it on a much higher level.

- **Advanced Algebra I / Suggested grade of 85 or higher in 8th grade math / See Advanced Criteria**
  - **Advanced Criteria**
    - A course designed for students showing an advanced aptitude and superior math skills. In addition to the strands listed for Algebra I, this advanced course is designed to prepare students for entry into AP mathematics courses. The course goes beyond the on-level Algebra I content with a wider range and greater depth of subject matter. The content assessments require students to synthesize their learning and apply it on a much higher level.

- **Geometry / Suggested grade of 92 or higher in 8th grade math**
  - **Advanced Criteria**
    - A course designed for students showing an advanced aptitude and superior math skills. In addition to the strands listed for Algebra I, this advanced course is designed to prepare students for entry into AP mathematics courses. The course goes beyond the on-level Algebra I content with a wider range and greater depth of subject matter. The content assessments require students to synthesize their learning and apply it on a much higher level.

- **Advanced Geometry**
  - **Advanced Criteria**
    - A course designed for students showing an advanced aptitude and superior math skills. In addition to the strands listed for Algebra I, this advanced course is designed to prepare students for entry into AP mathematics courses. The course goes beyond the on-level Algebra I content with a wider range and greater depth of subject matter. The content assessments require students to synthesize their learning and apply it on a much higher level.

- **Mathematical Models With Applications (MMA)**
  - **Advanced Criteria**
    - A course designed for students showing an advanced aptitude and superior math skills. In addition to the strands listed for Algebra I, this advanced course is designed to prepare students for entry into AP mathematics courses. The course goes beyond the on-level Algebra I content with a wider range and greater depth of subject matter. The content assessments require students to synthesize their learning and apply it on a much higher level.

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#### Course Descriptions

**Algebra I / Suggested grade of 92 or higher in 8th grade math / See Advanced Criteria**

Students will study linear, quadratic, and exponential functions and their related transformations, equations, and associated solutions. Students will connect functions and their associated solutions in both mathematical and real-world situations. Students will use technology to collect and explore data and analyze statistical relationships. In addition, students will study polynomials of degree one and two, radical expressions, sequences, and laws of exponents. Students will generate and solve linear systems with two equations and two variables and will create new functions through transformations.

**Advanced Algebra I / Suggested grade of 85 or higher in 8th grade Algebra I or Advanced Algebra I OR 95 or higher in on-level Algebra I / See Advanced Criteria**

A course designed for students showing an advanced aptitude and superior math skills. In addition to the strands listed for Algebra I, this advanced course is designed to prepare students for entry into AP mathematics courses. The course goes beyond the on-level Algebra I content with a wider range and greater depth of subject matter. The content assessments require students to synthesize their learning and apply it on a much higher level.

**Geometry / Suggested grade of 92 or higher in 8th grade math**

Students will explore concepts covering coordinate and transformational geometry; logical argument and constructions; proof and congruence, similarity, proof, and trigonometry; two- and three-dimensional figures; circles; and probability.

**Advanced Geometry**

A course designed for students showing an advanced aptitude and superior math skills. In addition to the strands listed for Algebra I, this advanced course is designed to prepare students for entry into AP mathematics courses. The course goes beyond the on-level Geometry content with a wider range and greater depth of subject matter. The content assessments require students to synthesize their learning and apply it on a much higher level.

**Mathematical Models With Applications (MMA)**

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 science. Students use algebraic, graphical, and geometric reasoning to recognize patterns and structure, to model information, to solve problems, and to
communicate solutions. Students will select from methods such as algebraic techniques, geometric reasoning, patterns, and mental math to solve problems.

**Prerequisites** - Algebra I, Geometry (or concurrently enrolled)

**Term:** Year  
**Credit:** 1.0 Math State Credit

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**1032 Algebraic Reasoning**  
11-12

Students continue with development of mathematical reasoning related to algebraic understanding and processes, and deepen a foundation for studies in subsequent mathematics courses. Students will broaden their knowledge of functions and relationships, including linear, quadratic, square root, rational, cubic, cube root, exponential, absolute value, and logarithmic functions. Students will study these functions through analysis and application that includes explorations of patterns and structure, number and algebraic methods, and modeling from data using tools that build to workforce and college readiness such as probes, measurement tools, and software tools, including spreadsheets. This course provides a path for students to succeed in Algebra II and prepares them for various post-secondary choices.

**Prerequisites** - Algebra I and Geometry

**Term:** Year  
**Credit:** 1.0 Math State Credit

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**1035 Financial Mathematics**  
11-12

This is a course about personal money management. Students will apply critical-thinking skills to analyze personal financial decisions based on current and projected economic factors.

**Prerequisites** - Algebra I and Geometry

**Term:** Year  
**Credit:** 1.0 Math State Credit

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**1041 Algebra II**  
10-12

Students broaden their knowledge of quadratic functions, exponential functions and systems of equations. They study logarithmic, square root, cubic, cube root, absolute value, rational functions and their related equations. Students connect functions to their inverses and to their associated equations and solutions in both mathematical and real world situations. In addition, students extend their knowledge of data analysis and numeric and algebraic methods.

**Prerequisites** - Algebra I and Geometry (or concurrently enrolled)

**Term:** Year  
**Credit:** 1.0 Math State Credit

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**1042 Advanced Algebra II**  
10-11

A course designed for students showing an advanced aptitude and superior math skills. In addition to the strands listed for Algebra II, this advanced course is designed to prepare students for entry into AP mathematics courses. The course goes beyond the on-level Algebra II content with a wider range and greater depth of subject matter. The content assessments require students to synthesize their learning and apply it on a much higher level. This course is recommended for students with a grade of 85 or higher in Advanced Geometry, or 95 or higher in on-level Geometry.

**Prerequisites** - Algebra I, Geometry or Advanced Geometry/Suggested grade of 85 of higher in 8th grade Algebra I or Advanced Algebra I, or, 95 or higher in on-level Algebra I / See Advanced Criteria

**Term:** Year  
**Credit:** 1.0 Math State Credit

This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses.

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**1061 Pre-Calculus**  
11-12

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

**Prerequisites** - Algebra I, Geometry, Algebra II / Suggested grade of 80 or higher in Algebra II

**Term:** Year  
**Credit:** 1.0 Math State Credit

This course does NOT receive advanced weighting in the GPA.

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**1062 Advanced Pre-Calculus**  
11-12

This course offers the preparation for AP Calculus. This course is designed for students showing an advanced aptitude and superior math skills. In addition to the strands listed for Pre-Calculus, this advanced course is designed to prepare students for entry into AP mathematics courses. The course goes beyond the on-level Pre-Calculus content with a wider range and greater depth of subject matter. Emphasis is placed on critical thinking skills that require considerable mathematical insight. The content assessments require students to synthesize their learning and apply it on a much higher level. This course is intended for highly motivated, self-disciplined students.

**Prerequisites** - Algebra II / Suggested grade of 85 or higher in Advanced Algebra II OR 95 or higher in Algebra II / See Advanced Criteria

**Term:** Year  
**Credit:** 1.0 Math State Credit

This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses.

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**1063 AP Calculus AB**  
12

This course is designed for advanced math students. Limits, derivatives, and the definite integral are among the topics studied in detail. This course emphasizes the various types and applications of differentiation and integration.

**Prerequisites** - Pre-Calculus / Suggested grade of 85 or higher in Advanced Pre-Calculus / See AP Criteria

**Term:** Year  
**Credit:** 1.0 Math State Credit

This course receives AP/DC weighting in the GPA. Students may not self-elect out of this course during the school year as no equivalent level course is available. See AP criteria.

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**1071 AP Statistics**  
11-12

This course will introduce the students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to the themes of exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Use of a graphing calculator with statistical capabilities is an integral part of this class.

**Prerequisites** - Algebra II / Suggested grade of 80 or higher in Advanced Algebra II OR 90 or higher in Algebra II / See AP Criteria

**Term:** Year  
**Credit:** 1.0 Math State Credit

This course receives AP/DC weighting in the GPA. Students may not self-elect out of this course during the school year as no equivalent level course is available. See AP criteria.
1081 Engineering Mathematics 11-12
This course meets the graduation requirements by the State of Texas as a 4th math credit. Engineering Mathematics is a course where students solve and model robotic design problems. Students use a variety of mathematical methods and models to represent and analyze problems involving data acquisition, spatial applications, electrical measurement, manufacturing processes, materials engineering, mechanical drives, pneumatics, process control systems, quality control, and robotics with computer programming.
Prerequisites - Algebra II
Term: Year Credit: 1.0 Math State Credit
Students may not self-elect out of this course during the school year as no equivalent level course is available.

1100 College Readiness Mathematics 12
Intermediate Algebra topics for all formats include special products and factoring, rational expressions, radicals, radical equations, quadratic equations, and complex numbers; an introduction to the function concept, and graphing, equations of lines and linear systems. The course fulfills TSI requirements for Math. This course carries institutional credit but will not transfer and will not be used to meet degree requirements- MATH 0310. Intermediate Algebra prepares students for MATH 1314 (College Algebra). Students are required to purchase an access code for this course, which includes the online homework assignments and virtual textbook.
Prerequisites - Algebra II
Term: Year Credit: 1.0 Math State Credit
This course does NOT receive advanced weighting in the GPA.

1101 Dual Credit College Algebra 11-12
College Algebra topics include absolute value and quadratic equations and inequalities, graphing skills, inverse functions, logarithmic and exponential functions, polynomial and rational functions, piecewise-defined functions, theory of equations and systems of equations - MATH 1314. Students are required to purchase an access code for this course, which includes the online homework assignments and a virtual textbook.
Prerequisites - Algebra II / Demonstrate college readiness through the Texas Success Initiative Assessment (TSIA) or other approved placement scores / See Dual Credit Criteria
Term: Semester Credit: 0.5 Math State Credit
This course receives AP/DC weighting in the GPA. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria.

1102 Dual Credit Math for Business and Social Science 11-12
Topics include applications of common algebraic functions, including polynomial, exponential, logarithmic, and rational, to problems in business, economics, and the social sciences are addressed. The applications include mathematics of finance, including simple and compound interest and annuities; systems of linear equations; matrices; linear programming; and probability, including expected value - MATH 1324. Students are required to purchase an access code for each course, which includes the online homework assignments and a virtual textbook.
Prerequisites - Algebra II / Demonstrate college readiness through the Texas Success Initiative Assessment (TSIA) or other approved placement scores / See Dual Credit Criteria
Term: Semester Credit: 0.5 Math State Credit
This course receives AP/DC weighting in the GPA. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria.

1103 Dual Credit Statistics 11-12
Statistics topics include probability, random variable, binomial and normal distribution, random sampling, statistical inference, estimation, testing hypotheses, linear regressions and correlation, and chi-square test - MATH 1342. Students are required to purchase an access code for each course, which includes the online homework assignments and a virtual textbook. A graphing calculator is used as an integral part of this course.
Prerequisites - Algebra II / Demonstrate college readiness through the Texas Success Initiative Assessment (TSIA) or other approved placement scores / See Dual Credit Criteria
Term: Semester Credit: 0.5 Math State Credit
This course receives AP/DC weighting in the GPA. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria.

1104 Dual Credit Calculus for Business and Social Science 11-12
The basic study of limits and continuity, differentiation, optimization and graphing, and integration of elementary functions, with emphasis on applications in business, economics, and social sciences - MATH 1325.
Prerequisites - Algebra II / Demonstrate college readiness through the Texas Success Initiative Assessment (TSIA) or other approved placement scores / See Dual Credit Criteria
Term: Semester Credit: 0.5 Math State Credit
This course receives AP/DC weighting in the GPA. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria.

SCIENCE

1511 Integrated Physics and Chemistry 10
Introduces the student to the basic concepts of physics and chemistry. Topics include safety, scientific methods, measurement, mechanics, optics, acoustics, electricity, magnetism and the basic concepts of general chemistry.
Prerequisites - None
Term: Year Credit: 1.0 Science State Credit

1521 Biology 9-12
Students will expand their knowledge of scientific processes as they apply to the nature of living systems. Extensive discussions and many lab activities relating to biology concepts, terms and theories provide a foundation for understanding the living world.
Prerequisites - None
Term: Year Credit: 1.0 Science State Credit

1522 Advanced Biology 9-12
This course is designed to prepare students for Advanced Placement Biology. The class is lab-oriented and designed to provide an introduction to biological topics stressed in the advanced placement course. Students will learn process skills involved in scientific problem solving which will allow them to become self-starters and independent workers in the AP course. Areas stressed will be molecular biology, environmental science, and phylogeny. All laboratory exercises are designed to reinforce concepts and process skills.
Prerequisites - See Advanced Criteria
Term: Year Credit: 1.0 Science State Credit
This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses.

1523 AP Biology 11-12
This course is the equivalent of college freshman biology and the rigor is comparable to a class for biology majors. Students will be expected to perform at the college level. Areas addressed are prescribed in the College Board publication, Advanced Placement course description: Biology. Laboratory exercises are designed to encourage independent study as well as reinforce concepts and process skills. Due to extensive labs, this course content is spread across multiple class periods.
Prerequisites - Biology, Chemistry/See AP Criteria
Term: Year Credit: 1.0 Science State Credit
This course receives AP/DC weighting in the GPA. Students may not self-elect out of this course during the school year as no equivalent level course is available. See AP criteria.

1531 Chemistry 10-12
This course is designed to give a basic knowledge of atomic structure as it relates to the chemical behavior of elements. Laboratory activities are utilized in helping students understand chemistry.
Prerequisites - Biology with a grade of 80 or higher
Term: Year Credit: 1.0 Science State Credit

1532 Advanced Chemistry 10-12
Students will study the structured properties of matter with a strong emphasis on the mathematics of chemistry.
Prerequisites - Biology / See Advanced Criteria
Term: Year Credit: 1.0 Science State Credit
This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses.

1533 AP Chemistry 11-12
Students will study the structured properties of matter with a strong emphasis on the mathematics of chemistry. Due to extensive lab work, this course content is spread across multiple class periods.
Prerequisites - Biology, Chemistry/Algebra II (recommended) /See AP Criteria
Term: Year Credit: 1.0 Science State Credit
This course receives AP/DC weighting in the GPA. Students may not self-elect out of this course during the school year as no equivalent level course is available. See AP criteria.

1541 Physics 10-12
Physics explores the interrelationship between matter and energy. This course requires a strong mathematics background because mathematics is the language used to describe abstract ideas. Topics will include motion, force, vector analysis, thermodynamics, work, and waves. Process skill acquisition and problem solving will be stressed.
Prerequisites - Algebra II or Concurrent Enrollment/Biology
Term: Year Credit: 1.0 Science State Credit

1542 AP Physics I 10-12
Strong mathematical principles are a requirement for this course. Topics to be discussed would be electricity, magnetism, mechanics, and waves. Laboratory experiences are analytically based and relate directly to current classroom topics.
Prerequisites - Advanced Algebra II or Concurrent Enrollment/Admissions Committee Approval/See Advanced Criteria

Term: Year Credit: 1.0 Science State Credit
This course receives AP/DC weighting in the GPA. See AP criteria.

1543 AP Physics II 11-12
A college level physics course covering mechanics, electricity, and magnetism, fluids and thermodynamics, waves, optics, and modern physics. This course is an excellent opportunity for students considering a career in science or engineering fields. Problem solving will be rigorous. A variety of hands-on laboratory investigations and inquiry activities will be included.
Prerequisites - Physics or AP Physics 1/Pre-Calculus/Admissions Committee Approval/See AP Criteria
Term: Year Credit: 1.0 Science State Credit
This course receives AP/DC weighting in the GPA. Students may not self-elect out of this course during the school year as no equivalent level course is available. See AP criteria.

1551 Anatomy and Physiology 11-12
Extends understanding of the structure and function of the human body. Students will explore physiological systems and associated pathologies. Higher order thinking is stressed through assessment and synthesis of the anatomical knowledge combined with exposure to clinical analysis. Principles of physiology will be applied to human health and well-being.
Prerequisites - Biology/Chemistry or Concurrent Enrollment
Term: Year Credit: 1.0 Science State Credit or State Elective Credit

1561 Environmental Systems 11-12
Students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include ecosystems, biomes, and sources and flow of energy through an environmental system. Students will examine the impact of human activity on the environment, use and conservation of resources, and pollution. Careers in environmental science will also be explored.
Prerequisites - Biology/IPC or Chemistry
Term: Year Credit: 1.0 Science State Credit

1562 AP Environmental Science 11-12
This laboratory and field-based course is designed to provide students with scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving them. Laboratory and field investigations are diverse and interwoven into the curriculum. Student is responsible for cost of class lab fees in addition to the exam fee.
Prerequisites - Biology/Chemistry or Concurrent Enrollment In Chemistry/See AP Criteria
Term: Year Credit: 1.0 Science State Credit
This course receives AP/DC weighting in the GPA. Students may not self-elect out of this course during the school year as no equivalent level course is available. See AP criteria. Expected cost to student for this course: $45.

1571 Aquatic Science 11-12
Students study the interactions of biotic and abiotic components in aquatic environments, including impacts on aquatic systems. Investigations and field work in this course may emphasize freshwater or marine aspects of aquatic science depending primarily upon the natural resources available for study near the school. Students will acquire knowledge about a variety of aquatic systems, conduct investigations and observations of aquatic environments, work collaboratively with peers, and develop critical-thinking and problem-solving skills.
1581 Astronomy 11-12
Students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study the following topics: astronomy in civilization, 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. Students will acquire knowledge within a conceptual framework, conduct observations of the sky, work collaboratively, and develop critical-thinking skills. Field trip opportunities may be available outside the typical school day.
Prerequisites - Biology/IPC or Chemistry
Term: Year Credit: 1.0 Science State Credit

SOCIAL STUDIES

2011 World Geography Studies 9-10
Students will examine people, places, and environments at local, regional, national, and international scales from the spatial and ecological perspectives of geography.
Prerequisites - None
Term: Year Credit: 1.0 Social Studies State Credit

2012 Advanced World Geography Studies 9-10
Meticulous analysis based on geographic skills will extend to contemporary areas of concern such as: regional conflicts, global pollution and energy resources. Students will participate in independent research, outside reading, oral and multimedia presentations, simulations, and intense essay writing.
Prerequisites - Admissions Committee Approval/See Advanced Criteria
Term: Year Credit: 1.0 Social Studies State Credit
This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses.

2013 AP Human Geography 9-12
The course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine socioeconomic organization and its environmental consequences. This course fulfills the graduation requirements for World Geography.
Prerequisites - On-level Social Studies course GPA > 91 or Advanced Social Studies course > 71 recommended
Term: Year Credit: 1.0 Social Studies State Credit
This course receives AP/DC weighting in the GPA. See AP criteria.

2021 World History 9-10
World History Studies is the only course offering students an overview of the entire history of humankind. The major emphasis is on the study of significant people, events and issues from earliest times to the present.
Prerequisites - None
Term: Year Credit: 1.0 Social Studies State Credit

Prerequisites - Biology/IPC or Chemistry
Term: Year Credit: 1.0 Science State Credit

2022 Advanced World History 9-10
The scope of this course focuses on "essential" concepts and skills that can be applied to various eras, events, and people. Traditional historical points of reference in world history are identified as students analyze important events and issues in Western civilization and civilizations in other parts of the world.
Prerequisites - Admissions Committee Approval/See Advanced Criteria
Term: Year Credit: 1.0 Social Studies State Credit
This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses.

2023 AP World History 9-10
Students will explore interaction between the environment, culture(s), state-building, economic systems, and social structures, from approximately 8000 B.C.E. to the present, with intense essay writing and outside readings.
Prerequisites - Admissions Committee Approval/See AP Criteria
Term: Year Credit: 1.0 Social Studies State Credit
This course receives AP/DC weighting in the GPA. See AP criteria.

2024 AP European History 11-12
The AP European History course focuses on the socio-cultural, political, religious, intellectual, artistic, technological and economic developments in Europe from 1450-the present. This is a College level course that requires extensive reading and research. The course is designed to enhance your ability to analyze historical evidence, evaluate and synthesize historical sources into effectively written essays.
Prerequisites - Admissions Committee Approval/See AP Criteria
Term: Year Credit: 1.0 Social Studies State Credit
This course receives AP/DC weighting in the GPA. Students may not self-select out of this course during the school year as no equivalent level course is available. See AP criteria.

2031 U.S. History (Since Reconstruction) 11
Students study the history of the United States since Reconstruction to the present. Historical content focuses on the political, economic, and social events and issues related to industrialization and urbanization, major wars, domestic and foreign policies of the Cold War, and post-Cold War era, and reform movements including civil rights.
Prerequisites - None
Term: Year Credit: 1.0 Social Studies State Credit

2032 AP U.S. History 11
Students learn about the developments that have shaped U.S. history though the critical analysis of historical events and materials. Intense essay writing and outside reading is a substantial part of the course.
Prerequisites - Admissions Committee Approval/See AP Criteria
Term: Year Credit: 1.0 Social Studies State Credit
This course receives AP/ DC weighting in the GPA. See AP criteria.

2033 Dual Credit U.S. History 11
A survey of U.S. history from pre-contact societies through Reconstruction. Themes to be developed include westward expansion and globalization, slavery, Native Americans, and religious and social changes. An additional purpose of this course is to introduce students to the skills and practices of history - HIST 1301. A survey of U.S. history from 1877 to the present. Topics will include western expansion, industrialization, immigration, imperialism, economic, political and social developments, the wars of the 20th century and the changing status...
and conditions of women and minorities - HIST 1302. Students must pass both, HIST 1301 & HIST 1302 to be awarded U.S. History credit.

**Prerequisites** - Passing Entrance Tests Scores As Determined By Lone Star College/See Dual Credit Criteria

**Term:** Year **Credit:** 1.0 Social Studies State Credit

This course receives AP/DC weighting in the GPA. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria.

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<th>Course Code</th>
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| 2041 | U.S. Government | 12 | This one-semester course is designed to prepare students for decision-making within the framework of the American political system. The course begins with an overview of basic concepts found in all political systems, the philosophical background that led to our constitutional development, and the basic concepts found in the Constitution. The three branches of the federal government, including current issues of interest nationally, will be studied. In addition, students study the fields of civil rights and liberties, political parties and suffrage, and a study of the Texas Constitution, state and local government.

**Prerequisites** - None

**Term:** Semester **Credit:** 0.5 Social Studies State Credit |

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<th>Course Code</th>
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| 2053 | AP Macroeconomics | 12 | This AP course is designed to provide a thorough understanding of the principles of economics that apply to an economic system as a whole. Such a course places particular emphasis on the study of national income and price determination, while also developing a familiarity with economic performance measures, economic growth, and international economics. This course fulfills the state requirement for economics credit.

**Prerequisites** - Admissions Committee Approval/See AP Criteria

**Term:** Semester **Credit:** 0.5 Social Studies State Credit |

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| 2054 | Dual Credit Macroeconomics | 12 | A study of macroeconomic principles. Analysis of the market economy; national income accounting; income determination; stabilization policies: monetary and fiscal policy; money and banking; demand and supply-side economics; monetarist vs. Keynesian view; inflation theories such as distinction between demand-pull and cost-push theories, Phillips curve analysis; labor market and determination of unemployment rate – ECON 2301. Typically offered as an online course through Lone Star College.

**Prerequisites** - Passing Entrance Tests Scores As Determined By Lone Star College/See Dual Credit Criteria

**Term:** Semester **Credit:** 0.5 Social Studies State Credit |

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| 2055 | Dual Credit Microeconomics | 12 | A study of microeconomic principles. Analysis of theories of consumer behavior, production, cost; equilibrium analysis in product markets under different market structures, such as perfect competition, monopoly, monopolistic competition, oligopoly; cartels and conglomerate mergers; antitrust policy, economics of regulation; analysis of different types of factor markets and factor price determination – ECON 2302. Typically offered as an online course through Lone Star College.

**Prerequisites** - Passing Entrance Tests Scores As Determined By Lone Star College/See Dual Credit Criteria

**Term:** Semester **Credit:** 0.5 Social Studies State Credit |
This course receives AP/DC weighting in the GPA. Students may not self-elect out of this course during the school year as no equivalent level course is available. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria.

2061  Psychology  10-12
Emphasis is placed on the systematic and scientific study of the behavior and mental processes of human beings and other animals. Focus is placed on psychological facts, principles, and phenomena associated with each of the major subfields within psychology.
Prerequisites - None
Term: Semester  Credit: 0.5 State Elective Credit

2062  AP Psychology  10-12
An enriched and challenging focus on the systematic and scientific study of the behavior and mental processes of human beings and other animals, including an emphasis on psychological facts, principles, and phenomena associated with each of the major subfields within psychology.
Prerequisites - Psychology/Admissions Committee Approval/See AP Criteria
Term: Semester  Credit: 0.5 State Elective Credit
This course receives AP/DC weighting in the GPA. Students may not self-elect out of this course during the school year as no equivalent level course is available. See AP criteria.

2063  Dual Credit Psychology  11-12
This course is a survey of the essential subject areas, major theories and approaches to the scientific study of behavior and mental processes – PSYC 2301. Typically offered as an online course through Lone Star College.
Prerequisites - Passing Entrance Tests Scores As Determined By Lone Star College/See Dual Credit Criteria
Term: Semester  Credit: 0.5 State Elective Credit
This course receives AP/DC weighting in the GPA. Students may not self-elect out of this course during the school year as no equivalent level course is available. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria.

2071  Sociology  10-12
Emphasizes patterned human behavior in major social institutions and processes. Focus is placed on an understanding of the social environment and of the dynamic interaction between the individual and society.
Prerequisites - None
Term: Semester  Credit: 0.5 State Elective Credit

2072  Dual Credit Sociology  11-12
This course is an introduction to the basic elements of society. In looking at human behavior, this course includes an introduction to dynamics of society, culture, social groups, social institutions, socialization, social processes and social structure - SOCI 1301. Typically offered as an online course through Lone Star College.
Prerequisites - Passing Entrance Tests Scores As Determined By Lone Star College/See Dual Credit Criteria
Term: Semester  Credit: 0.5 State Elective Credit
This course receives AP/DC weighting in the GPA. Students may not self-elect out of this course during the school year as no equivalent level course is available. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria.

2081  ACADEC I  9-12
2082  ACADEC II  9-12
2083  ACADEC III  9-12
2084  ACADEC IV  9-12

This independent study/social studies course is designed to prepare students for academic test competitions including Academic Decathlon as well as other events. Students will conduct research topics generated by annual themes in Economics, Fine Arts, Language/Literature, Math, Science, Social Studies, Speech, Interview, and Essay Writing. Although all students will study the areas required for the Academic Decathlon competition, they will be given the opportunity to specialize in U.I.L. interests.
Prerequisites - Strong Research, Writing and Speaking Skills/Parental and Admissions Committee Approval
Term: Year  Credit: 1.0 State Elective Credit
This course receives AP/DC weighting in the GPA. Students may not self-elect out of this course during the school year as no equivalent level course is available.

ATHLETICS & PHYSICAL EDUCATION

3000  9th Grade Physical Education 1  09
3001  9th Grade Physical Education 2  09
Students in these classes will be introduced to a variety of individual and team sports that can be pursued for a lifetime. Students will be encouraged to develop a health-related fitness program and an appreciation for teamwork and fair play. The activities will reinforce incorporating physical activity into a lifestyle beyond high school. Each course is a half-credit.
Prerequisites - None
Term: Semester  Credit: 0.5 State Elective Credit

3002  10th Grade Physical Education 1  10
3003  10th Grade Physical Education 2  10
3004  11th Grade Physical Education 1  11
3005  11th Grade Physical Education 2  11
3006  12th Grade Physical Education 1  12
3007  12th Grade Physical Education 2  12
Students in these classes will continue to participate in individual and team sports. Sportmanship and teamwork will be stressed. Maintaining good personal fitness throughout one’s lifetime will be the focus of the courses. Each course is a half-credit.
Prerequisites - None
Term: Semester  Credit: 0.5 Physical Education State Credit

In addition to the courses listed in this section, Marching Band, Dance Team and JROTC I may substitute for state PE credits. Such substitutions shall be based upon the physical activity involved in marching band during the fall semester, athletics, dance team, and JROTC. Students planning to pursue athletics and/or athletic scholarships at the college level must be aware of core curriculum requirements. These students need to contact their coach for printed information regarding the core curriculum as defined by National Collegiate Athletic Association (NCAA).
**MISD ATHLETICS PROGRAMS**

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<thead>
<tr>
<th>Course</th>
<th>Year 9</th>
<th>Year 10</th>
<th>Year 11</th>
<th>Year 12</th>
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<td>Football</td>
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<td>Girls Track</td>
<td>3241</td>
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Athletic programs are available in baseball, basketball, cross country, football, golf, soccer, softball, tennis, track, volleyball and swim/diving. These programs are competitive sports regulated by the University Interscholastic League. Team selection may be tryouts and coaching staff approval. Academic record and demeanor will be considered. The class meeting consists of conditioning activities and skill development. In addition, participation in after-school practices and games are required. These programs may substitute for the 1.0 state credit required for physical education. A maximum of four (4) P.E. credits may be counted toward state graduation requirements.

3300  **Aerobic Movement**

Students are introduced to the fundamentals and techniques of all disciplines of dance. Creative expression and interpretation through movement are explored. Students are required to furnish apparel (leotard & black Capri pants).

**Prerequisites** - None

**Term: Year Credit:** 1.0 Physical Education State Credit

**Expected cost to student for this course:** $55.

4021  **Advanced Spanish I**

Students continue to develop and improve listening, speaking, reading and writing skills. Emphasis is placed on comprehension of Spanish, as well as, reading and writing practice. Aspects of contemporary Spanish culture are introduced through the use of media, games, adapted readings and small or large group discussions. In addition to written/oral tests and quizzes, students are assessed using a variety of formats: oral dialogues, presentations, written compositions and other means. Completion of homework assignments, continuous effort to use the target language, active participation is a must to succeed in this course.

**Prerequisites** - Spanish I

**Term: Year Credit:** 1.0 State Foreign Language Credit

4022  **Advanced Spanish II**

In addition to the Spanish II curriculum, this course provides more in-depth studies of grammar. Students planning to continue on to Advanced Spanish III or Dual Credit Spanish should take this class.

**Prerequisites** - Spanish I with grade of 90 or better recommended. See Advanced Criteria

**Term: Year Credit:** 1.0 State Foreign Language Credit

This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses.
This course is designed to enrich and reinforce all levels of communication; building upon knowledge gained in Spanish 1 & 2. The course is a continuation and recycling of knowledge acquired in Spanish 1 and Spanish 2, as well as an introduction to new vocabulary, structures and expressions. Students will be expected to expand their vocabulary range to include more sophisticated terms, use advanced language expressions, verb tenses and grammatical concepts such as the pluperfect and the subjunctive mood. Students will view Spanish language films and read selected Spanish literature.

**Prerequisites** - Spanish I and II

**Term:** Year  
**Credit:** 1.0 State Foreign Language Credit

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**4033  Dual Credit Beginning Spanish I / Dual Credit Beginning Spanish II**  
10-12

This course includes beginner’s pronunciation, oral practice, conversation, development of listening comprehension, basic principles of grammar, simple exercises in composition, easy reading which includes cultural material - SPAN 1411. This course is a continuation of SPAN 1411 with increased emphasis on comprehension, speaking, reading and writing. Intensive drills to increase vocabulary and knowledge of structure - SPAN 1412.

**Prerequisites** - Spanish II with grade of 90 or better recommended/Admissions Committee Approval, Passing Entrance Tests Scores As Determined By Lone Star College/See Dual Credit Criteria

**Term:** Year  
**Credit:** 1.0 State Foreign Language Credit

This course receives AP/DC weighting in the GPA. Students are responsible for the purchase of required textbooks and associated fees.  See Dual Credit criteria.

---

**4041  Spanish IV**  
11-12

Spanish IV provides students the opportunity to further develop, improve and refine their listening, speaking, reading and writing skills. Emphasis continues to be placed on aural skills with additional emphasis on reading and writing in the target language. Supplementary materials are utilized to enhance language use. Aspects of contemporary Hispanic culture are emphasized through cultural readings, media, games, and class discussions. Assessment of student performance is identified through written tests and quizzes. In addition, students will also be assessed by means of oral tests, spoken dialogues, presentations, short compositions and other displays.

**Prerequisites** - Spanish III

**Term:** Year  
**Credit:** 1.0 State Foreign Language Credit

---

**Prerequisites** - Spanish III with grade of 90 or better recommended/See Advanced Criteria

**Term:** Year  
**Credit:** 1.0 State Foreign Language Credit

This course receives AP/DC weighting in the GPA. Students may not self-select out of this course during the school year as no equivalent level course is available.  See AP criteria.

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**4043  Dual Credit Intermediate Spanish I / Dual Credit Intermediate Spanish II**  
11-12

This course stresses both oral and written exercises to increase vocabulary, expansion of grammatical principles and short themes written on a variety of topics. Selected readings are included to improve comprehension in Spanish - SPAN 2311. This course is a continuation of SPAN 2311, with emphasis on works by Spanish-speaking authors. Continued reinforcement of grammatical principles and development of writing skills are stressed - SPAN 2312.

**Prerequisites** - Spanish III, Passing Entrance Tests Scores As Determined By Lone Star College/See Dual Credit Criteria

**Term:** Year  
**Credit:** 1.0 State Foreign Language Credit

This course receives AP/DC weighting in the GPA. Students are responsible for the purchase of required textbooks and associated fees.  See Dual Credit criteria.

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**4051  American Sign Language I**  
9-12

ASL I is an introduction to American Sign Language and the Deaf community. Students will learn basic vocabulary, grammar, sentence structure, and cultural foundations of ASL. Students will begin to learn to express themselves through signing by using: concrete ideas, fingerspelling and grammar. Using ageappropriate activities, students develop the ability to perform the tasks of the novice language learner. The novice language learner, when dealing with familiar topics, should: a. Understand short signed phrases when attending and respond expressively with learned material; b. Produce learned signs, phrases, and sentences; c. Detect main ideas in familiar material that is signed; d. Be able to transcribe American Sign Language (ASL) into English gloss; e. Recognize the importance of communication and how it relates to the American Deaf culture; and f. Recognize the importance of acquiring accuracy of expression by knowing the components of ASL, including grammar.

**Prerequisites** - None

**Term:** Year  
**Credit:** 1.0 State Foreign Language Credit

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**4052  American Sign Language II**  
9-12

ASL II is a continuation of American Sign Language and the Deaf community.

**Prerequisites** - None

**Term:** Year  
**Credit:** 1.0 State Foreign Language Credit
# FINE ARTS

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit</th>
<th>Year</th>
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<tbody>
<tr>
<td>4201</td>
<td>Band I</td>
<td>9-12</td>
<td>9</td>
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<tr>
<td>4202</td>
<td>Band II</td>
<td>10-12</td>
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<tr>
<td>4203</td>
<td>Band III</td>
<td>11-12</td>
<td>11</td>
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<tr>
<td>4204</td>
<td>Band IV</td>
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</table>

Three bands are offered for students interested in instrumental music: Marching Band, Symphonic Band, and Concert Band. During football season (fall) the various concert bands meet three times a week after school to make up the marching band, which performs at all varsity football games, UIL marching contests, non-UIL marching contests, and local parades. Band members are also required to attend Summer Band. During concert season (Spring), section rehearsals are scheduled after school one day a week to prepare for concerts and contests.

**Prerequisites** - Admissions Committee Approval

**Term:** Year Credit: 1.0 Physical Education State Credit (Band I)  Fine Arts State Credit (Band II)

**Expected cost to student for this course:** $450.

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<tr>
<td>4211</td>
<td>Band Techniques I</td>
<td>9-12</td>
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<tr>
<td>4212</td>
<td>Band Techniques II</td>
<td>10-12</td>
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<tr>
<td>4213</td>
<td>Band Techniques III</td>
<td>11-12</td>
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<tr>
<td>4214</td>
<td>Band Techniques IV</td>
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This course is offered for 4 levels of performance from beginner to advanced skills. The class is structured to meet the needs of each student on an individual basis. Woodwind, Brass and Percussion students must furnish their own instruments and approved materials.

**Prerequisites** - Admissions Committee Approval

**Term:** Year Credit: 1.0 Fine Arts State Credit

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<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>4221</td>
<td>Jazz Band I</td>
<td>9-12</td>
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<tr>
<td>4222</td>
<td>Jazz Band II</td>
<td>10-12</td>
<td>10</td>
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<tr>
<td>4223</td>
<td>Jazz Band III</td>
<td>11-12</td>
<td>11</td>
</tr>
<tr>
<td>4224</td>
<td>Jazz Band IV</td>
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</table>

The high school jazz band is made up of instruments which include woodwinds (saxophone is the primary instrument), trombones, trumpets, and rhythm (piano, electric/string bass, guitar, drum set, and vibraphone). Study and performance of jazz music, improvisation, sight-reading, and jazz style and performance techniques make up the class offered within the school day. Music theory, jazz history and applied music will be integrated into a performance-based curriculum. After school hours are required.

**Prerequisites** - Admissions Committee Approval

**Term:** Year Credit: 1.0 Fine Arts State Credit

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<th>Course Code</th>
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<tbody>
<tr>
<td>4231</td>
<td>Beginner Band I</td>
<td>9-10</td>
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</table>

This course is designed to introduce students to beginning instruction for Woodwind and Brass Instruments. Students will learn to perform a repertoire of instrumental literature representing various genres, styles, and cultures with expression, technical accuracy, tone quality, and articulation, by oneself and in ensembles. The course also includes music fundamentals, theory, songs, performance, listening, composing, improvising, analyzing, and learning to read standard music notation. Instrument rental may be required.

**Prerequisites** - Admissions Committee Approval

**Term:** Year Credit: 1.0 Fine Arts State Credit ONLY

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<tr>
<td>4232</td>
<td>Beginner Band II</td>
<td>9-10</td>
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</table>

See Course Description for Beginner Band I.

**Prerequisites** - Admissions Committee Approval

**Term:** Year Credit: 1.0 Fine Arts State Credit

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<tr>
<td>4300</td>
<td>Bel Canto Women's Choir</td>
<td>9-12</td>
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</table>

This intermediate Women’s Choir is open to 9th-12th grade females who enjoy performing and want to learn how to sing a variety of music. Bel Canto will perform at all concerts and compete at UIL.

**Prerequisites** - No audition necessary

**Term:** Year Credit: 1.0 Fine Arts State Credit

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<th>Course Code</th>
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<td>A Capella Select Women I</td>
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<td>4302</td>
<td>A Capella Select Women II</td>
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<tr>
<td>4303</td>
<td>A Capella Select Women III</td>
<td>9-12</td>
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<tr>
<td>4304</td>
<td>A Capella Select Women IV</td>
<td>9-12</td>
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</table>

This advanced Women's Choir is open to mature females who have a strong desire to work at an extremely high level. A Cappella Women will perform at most concerts and have additional community performances. Auditions are in the spring.

**Prerequisites** - By audition only. This choir may only be taken in conjunction with Bel Canto, Concert Women, or Chorale Women.

**Term:** Year Credit: 1.0 Fine Arts State Credit

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit</th>
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<tbody>
<tr>
<td>4311</td>
<td>Concert Men I</td>
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<td>Concert Men III</td>
<td>9-12</td>
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<tr>
<td>4314</td>
<td>Concert Men IV</td>
<td>9-12</td>
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</table>

This intermediate men’s choir is open to males who enjoy performing and want to learn how to sing a variety of music. Concert Men will perform at all concerts and combine with Concert Women’s Choir to form a UIL Mixed Choir.

**Prerequisites** - No audition necessary

**Term:** Year Credit: 1.0 Fine Arts State Credit

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<th>Course Code</th>
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<td>4321</td>
<td>Concert Women I</td>
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<td>4322</td>
<td>Concert Women II</td>
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<td>4323</td>
<td>Concert Women III</td>
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<tr>
<td>4324</td>
<td>Concert Women IV</td>
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This Advanced Women's Choir is open to 9th-12th grade females who enjoy performing and want to learn how to sing a variety of music. Concert Women will perform at all concerts and combine with Concert Men's Choir to form a UIL Mixed Choir.

**Prerequisites** - By audition only

**Term:** Year Credit: 1.0 Fine Arts State Credit

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<th>Course Title</th>
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<tr>
<td>4331</td>
<td>Varsity Chorale Men I</td>
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<td>4332</td>
<td>Varsity Chorale Men II</td>
<td>9-12</td>
<td>9</td>
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<tr>
<td>4333</td>
<td>Varsity Chorale Men III</td>
<td>9-12</td>
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<tr>
<td>4334</td>
<td>Varsity Chorale Men IV</td>
<td>9-12</td>
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</tbody>
</table>

Varsity Chorale Men is for the advanced male musician. Excellent technique, sight-reading ability, citizenship and discipline are required. Chorale performs at all concerts, in the community and competes at UIL. Auditions are in the spring.

**Prerequisites** - By audition only

**Term:** Year Credit: 1.0 Fine Arts State Credit

34
This course offers students a foundation in theatre history and performance, regular emphasis of vocal and physical communication skills, improvisation, memorization and performance. Other units include Shakespeare, commedia dell'Arte, Technical Theatre Overview and Playwriting.

**Prerequisites** - None

**Term:** Year Credit: 1.0 Fine Arts State Credit

**Expected cost to student for this course:** $20.

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### Theatre Arts II

This course is a deeper study of theatre, emphasizing communication and performance skills. Acting concepts and theories will be applied in in-class performances. Playwriting, Human Video and performance opportunities will be offered.

**Prerequisites** - Theatre I/Admissions Committee Approval

**Term:** Year Credit: 1.0 Fine Arts State Credit

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### Theatre Arts III

These courses are designed for students with a serious interest in acting and performance. Students are expected to participate in rehearsals and performances of all department productions, taking a leadership role in each area. Acting refinement, technical theatre involvement and oversight of Front of House management will be emphasized.

**Prerequisites** - Theatre I/Admissions Committee Approval

**Term:** Year Credit: 1.0 Fine Arts State Credit

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### Theatre Arts IV

See course description for Theatre Arts II.

**Prerequisites** - Admissions Committee Approval

**Term:** Year Credit: 1.0 Fine Arts State Credit

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### Technical Theatre I

Admittance to all Technical Theatre classes is by Admissions Committee approval only. This class includes safety, operation of lights, sound, set design, as well as learning essential knowledge of stage management. Design projects include the creative use of prop, costume, make-up, scenery, lighting and sound. This course also covers responsibilities of the technical crew and available careers in theatre production. Students are expected to take an active role during and after school hours to support the running show.

**Prerequisites** - Admissions Committee Approval

**Term:** Year Credit: 1.0 Fine Arts State Credit

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### Theatre Productions I

Admittance to Theatre Productions is by Admissions Committee approval and audition only. This highly advanced acting class is designed for students who have demonstrated the duality of talent and technique. All students in theatre productions are expected to audition for the One Act Play and must be able to meet all requirements set forth by UIL regarding eligibility. 8th grade auditions will be held in the spring. Acting style, theories and techniques will be studied.

**Prerequisites** - Admissions Committee Approval

**Term:** Year Credit: 1.0 Fine Arts State Credit
4431  **Theatre Directing**  10-12
This is an advanced course offered by signature only to the most serious theatre student, offering the fundamental of script analysis, staging and interpretation as well as knowledge of stage directing. Prior acting experience along with a background in dramatic literature is strongly recommended. Students examine the principle theatre directors of the modern period and their work. Ultimately, students study the relationships of director to the play, the playwright, the actor, the designers, and the audience.
**Prerequisites** - Admissions Committee Approval
**Term:** Year  Credit: 1.0 Fine Arts State Credit

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4511  **Art I**  9-12
Art is for anyone and everyone! Students will draw, paint, design and create. Art fulfills the state requirement for a Fine Art Credit and is the prerequisite for Drawing II, Painting II, Ceramics II, and Sculpture/Mixed-Media.
**Prerequisites** - None
**Term:** Year  Credit: 1.0 Fine Arts State Credit
Students may need to purchase $40 in art supplies.

---

4522  **Art II Intro to Drawing**  10-12
This course develops problem solving and technical skills by experimenting with graphite, charcoal, inks, and pastels.
**Prerequisites** - High School Art I & Art Teacher Approval
**Term:** Year  Credit: 1.0 Fine Arts State Credit
Students may need to purchase $40 in art supplies.

---

4523  **Art III Intermediate Drawing**  11-12
Compositional problem solving and technical skills will be continued. A student will begin to develop their portfolio.
**Prerequisites** - Art I, Art II Drawing & Art Teacher Approval
**Term:** Year  Credit: 1.0 Fine Arts State Credit
Students may need to purchase $40 in art supplies.

---

4524  **Art IV Upper Level Drawing**  12
Further study of compositional problem solving and development of technical skills. A student will develop their drawing portfolio.
**Prerequisites** - Art I, Art II Drawing, Art III Drawing & Art Teacher Approval
**Term:** Year  Credit: 1.0 Fine Arts State Credit
Students may need to purchase $40 in art supplies.

---

4532  **Art II Intro to Painting**  10-12
Focus on paint mixing, color theory, and developing skills. Artists and art movements will be studied with emphasis on composition.
**Prerequisites** - High School Art I Credit & Art Teacher Approval
**Term:** Year  Credit: 1.0 Fine Arts State Credit
Students may need to purchase $50 in art supplies.

---

4533  **Art III Intermediate Painting**  11-12
Students will further develop their ability to create visual ideas and develop individual style/techniques.
**Prerequisites** - H.S. Art I, Art II Painting & Art Teacher Approval
**Term:** Year  Credit: 1.0 Fine Arts State Credit
Students may need to purchase $40 in art supplies.

---

4534  **Art IV Upper Level Painting**  12
The student must be self-motivated and serious about painting. This course is designed to allow for exploration and development of individual style while creating a portfolio of artwork.
**Prerequisites** - H.S. Art I, Art II Painting, Art III Painting & Art Teacher Approval
**Term:** Year  Credit: 1.0 Fine Arts State Credit
Students may need to purchase $40 in art supplies.

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4542  **Art II Sculpture**  10-12
4543  **Art III Sculpture**  11-12
4544  **Art IV Sculpture**  12
Students will create three dimensional projects from paper, glue, wood, hose, cardboard, candles, fabric, yarn, linoleum and ink. Emphasis will be on safety, tools and procedures. Visual journals will be introduced.
**Prerequisites** - Courses to be taken sequentially after Art I and with Art Teacher Approval
**Term:** Year  Credit: 1.0 Fine Arts State Credit
Students may need to purchase $40 in art supplies.

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4552  **Art II Intro to Ceramics**  10-12
Introduction to ceramic processes: utilization of basic clay materials, building of clay forms. Firing, glazing, and aesthetic principles of ceramic sculpture.
**Prerequisites** - High School Art I & Art Teacher Approval
**Term:** Year  Credit: 1.0 Fine Arts State Credit
Students may need to purchase $50 in art supplies.

---

4553  **Art III Intermediate Ceramics**  11-12
Further study of ceramic techniques focusing on 3D portfolio development.
**Prerequisites** - High School Art I, Art II Ceramics, & Art Teacher Approval
**Term:** Year  Credit: 1.0 Fine Arts State Credit
Students may need to purchase $50 in art supplies.

---

4554  **Art IV Upper Level Ceramics**  12
Further study of ceramic techniques focusing on 3D portfolio development.
**Prerequisites** - High School Art I, Art II Ceramics, Art III Ceramics and Art Teacher Approval
**Term:** Year  Credit: 1.0 Fine Arts State Credit
Students may need to purchase $50 in art supplies.

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4562  **AP 2-D Art and Design**  11-12
This advanced placement course is for the highly motivated and serious artist who demonstrates an interest in pursuing art after high school. Students will work on a portfolio to submit to College Board: 1. Select Works (pieces physically mailed to College Board) 2. Sustained Investigation (digital portfolio submitted online). Taking an additional art course in conjunction with AP Art is recommended.
**Prerequisites** - Art I and Art Teacher approval
**Term:** Year  Credit: 1.0 Fine Arts State Credit
This course receives AP/DC weighting in the GPA. Students may not self-elect out of this course during the school year as no equivalent level course is available. See AP criteria. Students may need to purchase $40 in art supplies.

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4563  **AP 3-D Art and Design**  10-12
This advanced placement course is for the highly motivated and serious artist who demonstrates an interest in pursuing art after high school. Students will work on a portfolio to submit to College Board: 1. Select Works (pieces physically mailed to College Board) 2. Sustained Investigation (digital portfolio submitted online). Taking an additional art course in conjunction with AP Art is recommended.
**Prerequisites** - Art I and Art Teacher approval
**Term:** Year  Credit: 1.0 Fine Arts State Credit
This course receives AP/DC weighting in the GPA. Students may not self-elect out of this course during the school year as no equivalent level course is available. See AP criteria. Students may need to purchase $40 in art supplies.
online). Taking an additional art course in conjunction with AP Art is recommended.

Prerequisites - Art I and Art Teacher approval

Term: Year Credit: 1.0 Fine Arts State Credit
This course receives AP/DC weighting in the GPA.

464 AP Studio Art: Drawing Portfolio 10-12
This advanced placement course is for the highly motivated and serious artist who demonstrates an interest in pursuing art after high school. Students will work on a portfolio to submit to College Board: 1. Select Works (pieces physically mailed to College Board) 2. Sustained Investigation (digital portfolio submitted online). Taking an additional art course in conjunction with AP Art is recommended.

Prerequisites - Art I and Art Teacher approval

Term: Year Credit: 1.0 Fine Arts State Credit
This course receives AP/DC weighting in the GPA.

4611 Dance I (Non-drill team) 9-12
Students are introduced to the fundamentals and techniques of all disciplines of dance. Creative expression and interpretation through movement are explored. Students will be required to furnish apparel (leotard & black Capri pants).

Prerequisites - None

Term: Year Credit: 1.0 Fine Arts State Credit or PE State Credit
Expected cost to student for this course: $55.

4612 Dance II (Non-drill team) 10-12
Dance II emphasizes beginner dance technique, routines and performance. Students will learn and improve and increase flexibility, stamina, and physical fitness while learning new dance terms. Students will practice an effective warm-up, using elements of proper conditioning, and perform memorized movement combinations with rhythmical accuracy in several dance styles. Students will be required to purchase black leotard, jazz pants, and tap shoes. No after school hours are required.

Prerequisites - Dance I or Admissions Committee Approval

Term: Year Credit: 1.0 Fine Arts State Credit or PE State Credit
Expected cost to student for this course: $75.

4613 Dance III (Non-drill team) 11-12
See course description for Dance II (Non-drill team).

Prerequisites - Dance II or Admissions Committee Approval

Term: Year Credit: 1.0 Fine Arts State Credit or PE State Credit

4614 Dance IV (Non-drill team) 12
See course description for Dance II (Non-drill team).

Prerequisites - Dance III or Admissions Committee Approval

Term: Year Credit: 1.0 Fine Arts State Credit or PE State Credit

4621 Dance Team I 9-12
4622 Dance Team II 10-12
4623 Dance Team III 11-12
4624 Dance Team IV 12
Dance Team emphasizes dance techniques, routines and performance at football games, pep rallies, some basketball games, community events, contests, and spring show. Students will demonstrate sensitivity toward others when working in groups, and express ideas and emotions through movement. Students will practice an effective warm-up and cool-down, using elements of proper conditioning, and perform memorized movement sequences with rhythmical accuracy in several dance styles. Students will demonstrate appropriate audience behavior and etiquette in the classroom and at performances. After school hours are required. Try-outs take place in the spring semester. (Physical Education waiver can be used for Fall semester only.).

Prerequisites - Admissions Committee Approval and Participation In Drill Team

Term: Year Credit: 1.0 Fine Arts State Credit or PE State Credit

4631 Dance Production I 10-12
4632 Dance Production II 11-12
4633 Dance Production III 12
This class will be much more advanced than the Dance Team class. It will focus on the officers and leaders of drill team. They will choreograph routines for productions, shows, and competitions throughout the year, design sets and costumes, and create lesson plans for the team. They will also demonstrate responsibility, artistic discipline, and creative problem solving. These students will gain more experience in the art of dance and dance production skills, as well as leadership qualities.

Prerequisites - Drill Team Officers & Leaders

Term: Year Credit: 1.0 Fine Arts State Credit

CAREER & TECHNICAL EDUCATION (CTE)

5110 Principles of Agriculture, Food and Natural Resources 9-11
Enhances the agricultural comprehension of young adults. Includes agricultural career development, leadership, communications and personal finances. This course also includes the overview of soil and plants, animals, and agricultural construction.

Prerequisites - None

Term: Year Credit: 1.0 State Elective Credit

5111 Wildlife, Fisheries and Ecology Management 10-12
Examines the importance of wildlife and outdoor recreation with emphasis on using wildlife and natural resources. Students will also examine the management of game and non-game wildlife species, fish, and aqua crops and their ecological needs. Students are able to obtain their Hunter Safety Certification during this course if they pass their exam.

Prerequisites - None

Term: Year Credit: 1.0 State Elective Credit
Course Fee: $50.

5121 Equine Science 10-12
Develop knowledge and skills pertaining to the selection, nutrition, reproduction, health, and management of horses. This course is recommended for those that have an interest in the Veterinary Science field.

Prerequisites - Principles of Agriculture

Term: Semester Credit: 0.5 State Elective Credit

5122 Livestock Production 10-12
Introduces the common veterinary skills and procedures used on livestock, anatomy of livestock, genetics and reproduction, and diseases that can affect all livestock animals. This course is recommended for those that have an interest in the Veterinary Science field.

Prerequisites - Principles of Agriculture
Develop and investigate the scientific and technological dimensions of scientific animal agriculture, genetics and reproduction, anatomy and physiology of various livestock species, nutritional requirements, and disease and parasites of livestock. This class is recommended for those students with an interest in Veterinary Science. This class will have 40% of class time instruction to conduct field experiments and laboratory investigations.

**Prerequisites:** Principles of Agriculture and Small Animal Management, Equine Science, or Livestock Production

**Term:** Year  
**Credit:** 1.0 State Science Credit or State Elective Credit

This course does NOT receive advanced weighting in the GPA.

**Course Fee:** $100.

This course is a continuation of Floral Design. There is a per semester cost for supplies in this course. Offers opportunity for Floral Certification.

**Term:** Year  
**Credit:** 1.0 State Fine Arts Credit or State Elective Credit

**Course Fee:** $100.
Prerequisites - Floral Design/Admissions Committee Approval  
Term: Year  Credit: 1.0 Fine Arts State Credit or State Elective Credit
This course does NOT receive advanced weighting in the GPA. Course Fee: $100.

5143 Horticultural Science 10-12
Focuses on the identification, production and care of plants. The students will study propagation, fertilizing, transplanting, and growing various plants. Students will also investigate the various career pathways within the horticulture industry.
Prerequisites - None
Term: Year  Credit: 1.0 State Elective Credit
This course does not receive Science credit.

5144 Advanced Plant & Soil Science 12
Students will investigate the importance of plant and soil science and its relationship affecting the production of food and fiber industry. Students will assess the plant ecosystem, erosion processes, petroleum energy, crop production, and genetically engineered plants and their importance to solving world hunger. This class will have 40% of class time instruction to conduct field experiments and laboratory investigations.
Prerequisites - None
Term: Year  Credit: 1.0 Science State Credit or State Elective Credit
This course does NOT receive advanced weighting in the GPA.

5210 Principles of Arts, AV Technology and Communication 9-11
Careers in the Arts, Audio/Video Technology, and Communications career cluster require, in addition to creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities. Student is responsible for cost of additional supplies.
Prerequisites - None
Term: Year  Credit: 1.0 State Elective Credit
Expected cost to student for this course: $30.

5211 Audio Video Production I 10-12
Students will be expected to develop an understanding of the industry with a focus on pre-production, production, and post-production audio and video activities. Student will be responsible for costs of additional supplies.
Prerequisites - Principles of Arts, AV Technology / Completed Student Information Packet & Admissions Committee Approval
Term: Year  Credit: 1.0 State Elective Credit
Expected cost to student for this course: $30.

5213 Practicum in Audio Video Production 12
Students in this class will develop advanced knowledge and skills in the field of audio and video production. Students will develop their portfolio of work that will assist them in gaining entry level employment, earning admittance into college film/video, television/radio broadcasting, and audio production programs, as well as securing post-secondary scholarships. Additional time beyond regular school hours is required.
Prerequisites - Principles of Arts, AV Technology, AV Production I and II, and Admissions Committee Approval
Term: Year  Credit: 2.0 State Elective Credit
Expected cost to student for this course: $30.

5310 Principles of Business, Marketing and Finance 9-11
Students are introduced to knowledge and skills of economics and private enterprise systems, impact of global business, marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles.
Prerequisites - None
Term: Year  Credit: 1.0 State Elective Credit

5311 Business Information Management I (BIM I) 9-11
Students will create word-processing documents, spreadsheets, graphs, charts, databases and presentations using appropriate software. Students prepare for the business world and postsecondary education by strengthening computer, communications, analytical, and technical skills. Students leave this class with the computer skills needed to compete in a technology driven environment as well as a working knowledge about information and business management. Offers opportunity to earn Microsoft Office Systems Certification via exam. This course is a part of the CTE pathways.
Prerequisites - None
Term: Year  Credit: 1.0 State Elective Credit

5312 Business Information Management II (BIM II) 10-12
Students will create complex word-processing documents, sophisticated spreadsheets, graphs, charts and presentations using appropriate multimedia software. Students prepare for the business world and postsecondary education by strengthening computer, communications, analytical, and technical skills. Students leave this class with an electronic digital portfolio, technical skill competencies and possibly licensure or certifications. Offers opportunity to earn Microsoft Office Systems Certification via exam.
Prerequisites - Suggested grade of 80 or higher in Business Information Management I.
Term: Year  Credit: 1.0 State Elective Credit
Course Fee: $35.

5313 Human Resource Management 11-12
Students recognize, evaluate, and prepare for a rapidly evolving global business environment that requires flexibility and adaptability. Students analyze the primary functions of human resources management, which include recruitment, selection, training, development, and compensation. Topics will incorporate social responsibility of business and industry. Students incorporate a broad base of knowledge that includes the legal, managerial, financial, ethical, and international dimensions of business to make appropriate human resources decisions.
Prerequisites - Principles Of Business, Marketing & Finance, and one additional business management credit
Term: Semester  Credit: 0.5 State Elective Credit
CourseFee: $25.
5314  Banking and Financial Services  
Students develop knowledge and skills in the economic, financial, technological, international, social and ethical aspects of banking to become competent consumers, employees, and entrepreneurs. Students incorporate a broad base of knowledge that includes the operations, sales, and management of banking institutions to gain a complete understanding of how banks function within society.

Prerequisites - Principles Of Business, Marketing & Finance, and one additional financial management credit
Term: Semester  Credit: 0.5 State Elective Credit

5320  Money Matters  
Students will investigate global economics with emphasis on the free enterprise system and its impact on consumers and business. Students apply critical-thinking skills to analyze financial options based on current and projected economic factors. Students will gain knowledge and skills necessary to set long-term financial goals based on those options. Students will determine methods of achieving long-term financial goals through investment, tax planning, asset allocation, risk management, retirement planning, and estate planning.

Prerequisites - Principles of Business, Marketing, Finance
Term: Year  Credit: 1.0 State Elective Credit

5321  Accounting I  
Students investigate the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students reflect on this knowledge as they engage in the process of recording, classifying, summarizing, analyzing, and communicating accounting information. Students formulate and interpret financial information for use in management decision making. This course offers an opportunity to earn Quickbooks Certification.

Prerequisites - None
Term: Year  Credit: 1.0 State Elective Credit
Course Fee: $100.

5322  Accounting II  
Students continue the investigation of the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students reflect on this knowledge as they engage in various managerial and cost accounting activities. Students formulate and interpret financial information for use in management decision making. This course offers an opportunity to earn Quickbooks Certification.

Prerequisites - Accounting I
Term: Year  Credit: 1.0 State Elective Credit

5331  Business Management  
Students develop a foundation in the economic, financial, technological, international, social and ethical aspects of business to become competent managers, employees, and entrepreneurs. Students incorporate a broad range of knowledge that includes legal, managerial, marketing, financial, ethical and international dimensions of business to make appropriate management decisions.

Prerequisites - BIM I/Principles of Business, Marketing & Finance
Term: Year  Credit: 1.0 State Elective Credit

5332  Business Law  
Students analyze the evolution and development of laws that govern business in our society. Students apply technical skills to address business applications of contemporary legal issues and analyze the social responsibility of business and industry.

Prerequisites - BIM I/Business Management
Term: Year  Credit: 1.0 State Elective Credit

5333  Advertising  
Advertising and Sales Promotion are key elements to any business that markets a product or service. Students will discover the goals and objectives of various types of advertising and promotion identify and analyze advertisements and promotional campaigns, select media and develop advertisements. Students will learn about the different types of advertising media, measure the effectiveness of that media and determine the costs involved. Students will learn about the promotional mix and well as the importance of public relations.

Prerequisites - BIM I/Principles of Business, Marketing & Finance
Term: Semester  Credit: 0.5 State Elective Credit

5334  Social Media Marketing  
A course designed to look at the rise of social media and how marketers are integrating social media tools in their overall marketing strategy. The course will investigate how the marketing community measures success in the new world of social media. Students will manage a successful social media presence for an organization, understand techniques for gaining customer and consumer buy-in to achieve marketing goals, and properly select social media platforms to engage consumers and monitor and measure the results of these efforts.

Prerequisites - Principles of Business Marketing, Finance
Term: Semester  Credit: 0.5 State Elective Credit

5335  Sports and Entertainment Marketing  
5336  Sports and Entertainment Marketing II  
A specialized course designed to offer students an opportunity to gain knowledge and develop skills related to the growing sports and entertainment industries. Students will develop skills in the area of facility design, merchandising, advertising, public relations/publicity, event marketing, sponsorship, ticket distribution, and career opportunities as they relate to the sports and entertainment industries.

Prerequisites - Principles of Business, Marketing & Finance. Courses to be taken sequentially
Term: Semester  Credit: 0.5 State Elective Credit

5340  Fundamentals of Real Estate  
This is a one year course designed for students who would like to get a license to sell real estate. This is a state licensing program in cooperation with the Texas Real Estate Commission (TREC). Students must complete 180 hours of online coursework from Pioneer School Real Estate. Upon the satisfactory completion of the 180 hours, students are expected to take the TREC exam to become a licensed real estate agent.

Prerequisites - BIM I, Principles of Business, Marketing & Finance, and one additional business credit
Term: Year  Credit: 2.0 State Elective Credit
Course Fee: $475.

5341  Career Preparation I  
5342  Career Preparation II  
This work-based learning program will prepare students with a variety of skills for a fast-changing workplace. Students will learn employability skills, which include job-specific skills applicable to their training station, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Students MUST be sixteen (16) years of age. Students are normally of junior or senior standings and MUST have reliable transportation. Students MUST have/find paid employment within the first ten (10) days of school. Students MUST work an average of 15 hours per week. Offers opportunity to earn OSHA General Industry Safety Certification.

Prerequisites - Required Paperwork Must Be Completed and Returned By Due Date/Admissions Committee Approval
Term: Year  Credit: 3.0 State Elective Credit

5351 Digital and Interactive Media 10-12
In this year long class, students will create digital graphics, animation, videos, manipulate music and sound and create digital portfolios. Students will analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. This course is recommended for students who have successfully completed BIM I or any other advanced computer/technical credit course.
Prerequisites - BIM I
Term: Year Credit: 1.0 MISD State Technology Credit

5352 Web Technologies 10-12
Through the study of web technologies and design, students learn to make informed decisions and apply the decisions to the field of information technology. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students enhance reading, writing, computing, communication, and critical thinking and apply them to the information technology environment. The course focuses on the creation of web sites using a variety of modern web standards such as XHTML/HTML and CSS, and includes work with animation and graphics.
Prerequisites - BIM I or Admissions Committee Approval
Term: Year Credit: 1.0 MISD State Technology Credit

5400 Principles of Hospitality and Tourism 9-11
This course provides an introduction to the hospitality and tourism industry. Topics include lodging, travel and tourism, recreation, amusements, attractions, resorts, and restaurant and food beverage service.
Prerequisites - None
Term: Year Credit: 1.0 State Elective Credit

5420 Principles of Education and Training 9-11
This course is designed to introduce learners to the various careers available within the education and training career cluster. Students use self-knowledge and educational and career information to analyze various careers within the education and training career cluster. Students will also gain an understanding of the basic knowledge and skills essential to careers within the education and training career cluster. Students will develop a graduation plan that leads to a specific career choice in the student's interest area.
Prerequisites - None
Term: Year Credit: 1.0 State Elective Credit

5421 Human Growth and Development 10-11
Students will examine the human development across the lifespan with emphasis upon research, theoretical perspectives, and common physical, cognitive, emotional, and social developmental milestones. The course covers material that is generally taught in a postsecondary, one-semester introductory course in developmental psychology or human development. Students will be responsible for cost of additional supplies.
Prerequisites - Principles of Education and Training
Term: Year Credit: 1.0 State Elective Credit

5422 Instructional Practices 11-12
A field-based internship that provides students with background knowledge of child and adolescent development as well as principles of effective teaching practices. Students will work under the joint direction and supervision of a teacher who has expertise in the areas of child development and educational methodology and an exemplary educator who is working in an instruction role in an elementary/middle/high school setting. Students will learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop materials for educational environments, assist with record keeping, and complete other responsibilities of teachers. Student MUST provide transportation. Student is responsible for the cost of uniform.
Prerequisites - Principles of Education Training, Required Paperwork Must Be Completed and Returned By Due Date/Criminal Background Check/Admissions Committee Approval
Term: Year Credit: 2.0 State Elective Credit
Expected cost to student for this course: $50.

5423 Practicum In Education and Training 12
This is a field-based internship that provides students background knowledge of child and adolescent development principles as well as principles of effective teaching and training practices. Students are under the joint direction and supervision of both a teacher and exemplary educators in direct instructional roles with elementary-, middle school- and high school-aged students. Student MUST provide transportation. Student is responsible for the cost of uniform.
Prerequisites - Principles of Education and Training, Instructional Practices in Education & Training/Required Paperwork Must Be Completed and Returned By Due Date/Criminal Background Check/Admissions Committee Approval
Term: Year Credit: 2.0 State Elective Credit
Expected cost to student for this course: $50.

5424 Project Based Research: Peer Coaching 11-12
This course is designed to promote an inclusive educational environment for at-risk and special education inclusion students. Enrolled students participate in "reverse inclusion" in self-contained classes. It is a course where positive peers make a positive impact in their fellow peer's lives.
Prerequisites - A-B Average/No Discipline Concerns
Term: Year Credit: 1.0 State Elective Credit

5431 Introduction to Culinary Arts 10-12
This course is for students interested in pursuing a career in the food service industry. This classroom and laboratory based course will provide insight into health and safety, nutrition and wellness, industry management, and food production skill. This course emphasizes professional standards and employability skills.
Prerequisites - Principles of Hospitality and Tourism
Term: Year Credit: 1.0 State Elective Credit
Course Fee: $50.

5432 Culinary Arts 11-12
This laboratory-based course begins with the fundamentals and principles of the art of food preparation and includes management and production skills and techniques. Students will receive a national sanitation certification, ServSafe Certification. The knowledge and skills required for careers in the restaurant, food, and beverage industry are emphasized. Student MUST provide transportation. Student is responsible for cost of additional supplies.
Prerequisites - Intro to Culinary Arts/Admissions Committee Approval
Term: Year Credit: 2.0 State Elective Credit
Course Fee: $50.

5433 Advanced Culinary Arts 12
This laboratory-based course is designed to be a continuation of the Culinary Arts program. Students continue to refine their knowledge and skills required for careers in the restaurant, food, and beverage industry. Students can pursue a national sanitation certification and other appropriate industry certifications. Laboratory activities involve food production in a professional setting. Student
Prerequisites - Culinary Arts/Admissions Committee Approval
Term: Year Credit: 2.0 State Elective Credit
This course does NOT receive advanced weighting in the GPA. Course Fee: $50.

5441 Fashion Design I  10-12
This laboratory course focuses on careers in the fashion and textile/apparel industries. Students will be exposed to the apparel production process from design concept to finished product. Course content includes apparel construction, care, and maintenance. Students will be responsible for cost of additional supplies. Student is responsible for cost of additional supplies.
Prerequisites - None
Term: Year Credit: 1.0 State Elective Credit
Course Fee: $100.

5442 Fashion Design II  11-12
Students will be expected to develop an advanced understanding of fashion, with emphasis on design and production. Students will be responsible for costs of additional supplies.
Prerequisites - Fashion Design I
Term: Year Credit: 2.0 State Elective Credit
Course Fee: $100.

5450 Principles of Architecture and Construction  10-12
Introduces students to the basic knowledge and skills related to the career opportunities and training in the architecture and construction fields.
Prerequisites - None
Term: Year Credit: 1.0 State Elective Credit

5451 Interior Design I  10-12
This technical course 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 prepare for careers in the interior design field. Students will be responsible for cost of additional supplies.
Prerequisites - Principles of Architecture & Construction
Term: Year Credit: 1.0 State Elective Credit

5452 Interior Design II  11-12
This technical laboratory course that includes the knowledge of the employability characteristics, principles, process, technologies, communication, tools, equipment, and materials related to interior spatial design. Students will be responsible for cost of additional supplies.
Prerequisites - None, Principles of Architecture and Interior Design I
Term: Year Credit: 2.0 State Elective Credit

5460 Principles of Cosmetology Design and Color Theory  11-12
Provides students with the basic specific classroom training needed to achieve their Texas Cosmetology License. Students will also be able to work on outside clientele for hands-on training. Upon completion of their senior year and the required 1500 hours total, students will have received classroom training needed to prepare them for their Cosmetologist Exam from the Texas Department of Licensing and Regulations. This course is offered in partnership with MOGO Salon Academy.
Prerequisites - MOGO Salon Academy application required
Term: Year Credit: 1.0 State Elective Credit
Course Fee: $125.

5461 Cosmetology I  11-12
Provides students with the basic specific classroom training needed to achieve their Texas Cosmetology License. Students will also be able to work on outside clientele for hands-on training. Upon completion of their senior year and the required 1500 hours total, students will have received classroom training needed to prepare them for their Cosmetologist Exam from the Texas Department of Licensing and Regulations. This course is offered in partnership with MOGO Salon Academy.
Prerequisites - MOGO Salon Academy application required
Term: Year Credit: 2.0 State Elective Credit
Tuition and fees (of approximately $12,050) are payable to the MOGO Salon Academy. Payment plan is available.

5462 Cosmetology II  12
Provides students with the basic specific classroom training needed to achieve their Texas Cosmetology License. Students will also be able to work on outside clientele for hands-on training. Upon completion of their senior year and the required 1500 hours total, students will have received classroom training needed to prepare them for their Cosmetologist Exam from the Texas Department of Licensing and Regulations. This course is offered in partnership with MOGO Salon Academy.
Prerequisites - MOGO Salon Academy application required
Term: Year Credit: 2.0 State Elective Credit

5463 Introduction to Cosmetology  12
Provides students with the basic specific classroom training needed to achieve their Texas Cosmetology License. Students will also be able to work on outside clientele for hands-on training. Upon completion of their senior year and the required 1500 hours total, students will have received classroom training needed to prepare them for their Cosmetologist Exam from the Texas Department of Licensing and Regulations. This course is offered in partnership with MOGO Salon Academy.
Prerequisites - MOGO Salon Academy application required
Term: Year Credit: 1.0 State Elective Credit

5510 Principles of Health Science  9-11
The Principles of Health Science provides an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry. Students will achieve comprehension of medical vocabulary pertaining to the body systems, medical procedures, anatomy and physiology & pathophysiology.
Prerequisites - None
Term: Year Credit: 1.0 State Elective Credit

5512 Medical Terminology  9-12
This course is designed to introduce student to the structure of medical terms, including prefixes, suffixes, root words, singular and plural forms, and medical abbreviations. Students will study the systems of the body learning medical terminology related to each system. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.
Prerequisites - Principles of Health Science (may be taken concurrently)
Term: Year Credit: 1.0 State Elective Credit

5513 Health Science Theory  11-12
This course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will achieve comprehension of medical vocabulary pertaining to the body systems, medical procedures, anatomy and physiology & pathophysiology. Students will have hands-on experiences for continued knowledge and skill development. This course offers an opportunity to earn an EKG and/or phlebotomy certification. May substitute for required MISD Health Credit if taken for full year.
Prerequisites - Principles of Health Science
Term: Year Credit: 1.0 State Elective Credit
Course Fee: $125.
5514 Pharmacology 11-12
Pharmacology is an introduction to the pharmacy and careers in pharmaceutics. Students will learn about pharmacy laws, medications and how they are given, medical abbreviations, and math and prescriptions. This is a great class for those interested in pharmacy, nursing or medicine. Pharmacology will prepare students to take the Pharmacy Technician course.
Prerequisites - Principles of Health Science, Health Science Theory
Term: Year Credit: 1.0 State Elective Credit

5515 Pathophysiology 11-12
Students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students also study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of disease. Students will differentiate between normal and abnormal physiology.
Prerequisites - Biology and Chemistry or Physics
Term: Year Credit: 1.0 Science State Credit or State Elective Credit

5516 Practicum in Health Science-Certified Clinical Medical Assistant 12
This course is designed to prepare students for an entry level position as a Certified Medical Assistant in a private office or clinic. Students will have a broad foundation of the healthcare field with an emphasis on professionalism, communication, behaviors and duties in a medical environment. There will be rotations through local facilities and clinics that will encourage and enhance all skills. Students must pass a background check and drug screen. Student must have a current flu vaccination, negative TB test, drivers license, provide own transportation, and copy of insurance. Student is responsible for these costs as well as for scrubs, OSHA & CPR Certification, blood typing test, and the Medical Assisting Certification Exam. Enrollment is limited.
Prerequisites - Principles of Health Science, Health Science Theory, Anatomy and Physiology (or concurrently), and Admissions Committee Approval
Term: Year Credit: 2.0 State Elective Credit
Expected cost to student for this course: $150.

5517 Practicum in Health Science-Patient Care Technician 12
A patient care technician is a health care professional who supports nurses, doctors and other medical staff in caring for patients during hospital stays or other visits. These professionals are responsible for making patients feel comfortable and cared for, which often requires them to provide emotional support and guidance to patients during their hospital stay or clinic visit. Some additional responsibilities of a patient care technician may include: providing basic patient care including bathing and feeding, conducting regular patient rounds and meeting with the patient’s family members when necessary, monitoring patients’ food and liquid intake, making note of any irregularities, obtaining specimens, conducting tests and recording results, checking blood pressure, heart rate and pulse on a routine basis, and escorting patients to X-rays and other diagnostic imaging procedures.
Prerequisites - Principles of Health Science, Health Science Theory, Anatomy and Physiology (or concurrently), and Admissions Committee Approval
Term: Year Credit: 2.0 State Elective Credit
This course cannot be taken as pass/fail. Expected cost to student for this course: $150.

5518 Practicum in Health Science-Pharmacy Technician 12
Pharmacy Technician provides the student the opportunity to prepare to take and pass the National Pharmacy Technician exam. Pharmacy technicians work under a licensed pharmacist assisting with labeling medicines, filling medicine bottles with the correct number of pills or tablets and other activities common in pharmacies. This course is good background information for students interested in nursing, medicine or pharmacy. Student is responsible for cost of test, fingerprinting and passing a background check. The Pharmacy Technician Certification Exam is $129. In order to sit for this exam, students must complete the Pharmacy Tech in Training license which is $100. There is an option to add the SPAT-IV certification which is $250. Please see the Health Science teacher with questions about this course.
Prerequisites - Principles of Health Science, Health Science Theory, Pharmacology (recommended), and Admissions Committee Approval
Term: Year Credit: 2.0 State Elective Credit
This course cannot be taken as pass/fail. Expected cost to student for this course: $480.

5519 Dual Credit Emergency Medical Technician (at Lone Star College - Conroe) 12
Preparation for certification as an Emergency Medical Technician (EMT). Includes all the skills necessary to provide emergency medical care at a basic life support level with an emergency service or other specialized services. Student purchases textbook and provides uniform and proof of immunizations. Course completion requires three classes, EMSP 1305, EMSP 1160, and EMSP 1501 by the end of the school year. Course instruction provided at Lone Star College – Conroe Center.
Prerequisites - Meet LSCS qualifications
Term: Year Credit: 2.0 State Elective Credit
This course receives AP/DC weighting in the GPA. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria. This course will fill 3 class periods in the student's schedule.

5520 Physical Therapy I 11-12
5521 Physical Therapy II 12
PENDING UPDATE FROM TEA
Prerequisites - (PENDING UPDATE FROM TEA). Courses to be taken sequentially
Term: Year Credit: 1.0 State Elective Credit

5522 Principles of Law, Public Safety, Corrections and Security 9-11
Introduces students to professions in law enforcement, protective services, corrections, firefighting, and emergency management services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services. The course provides students with an overview of the skills necessary for careers in law enforcement, fire service, protective services, and corrections.
Prerequisites - none
Term: Year Credit: 1.0 State Elective Credit
Comprehensive reading and writing skills are recommended as complex laws are read, analyzed, and applied in this course which attributes to a substantial percentage of a student’s evaluation. Course Fee: $30. Offers opportunity to earn either OSHA General Industry Safety Certification, CPR, or another industry certification.

5611 Law Enforcement I 10-12
An overview of the history, organization, and functions of local, state, and federal law enforcement. Students will understand the role of constitutional law at local, state, and federal levels; the U.S. legal system; criminal law; and law enforcement terminology and the classification and elements of crime.
Prerequisites - Principles of Law
Term: Year Credit: 1.0 State Elective Credit
Comprehensive reading and writing skills are recommended as complex laws are read, analyzed, and applied in this course which attributes to a substantial percentage of a student's evaluation. Course Fee: $30. Offers opportunity to earn either OSHA General Industry Safety Certification, CPR, or another industry certification.

<table>
<thead>
<tr>
<th>5613 Correctional Services</th>
<th>10-12</th>
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<tbody>
<tr>
<td>Correctional Services students prepare for certification required for employment as a municipal, county, state or federal correctional officer. The student will learn the role and responsibilities of a county or municipal correctional officer; discuss relevant rules, regulations, and laws of municipal, county, state or federal facilities; and discuss defensive tactics, restraint techniques, and first aid procedures as used in the municipal, county, state or federal correctional setting. The student will analyze rehabilitation and alternatives to institutionalization for inmates.</td>
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<tr>
<td><strong>Prerequisites</strong></td>
<td>Principles of Law, Public Security, Corrections and Security</td>
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<tr>
<td><strong>Term</strong></td>
<td>Year Credit: 1.0 State Elective Credit</td>
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<td>This course has a substantial writing component, strong writing skills are required. Writing comprises a substantial percentage of the course average. Comprehensive reading skills are a must since complex laws are read, analyzed, and applied to scenarios. Offers opportunity to earn either OSHA General Industry Safety Certification or another industry certification.</td>
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<tr>
<th>5614 Forensic Science</th>
<th>11-12</th>
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<tbody>
<tr>
<td>Students are introduced to the application of science to connect a violation of law to a specific criminal, criminal act, or behavior and victim. Students learn terminology and procedures related to criminal investigation, crime scene processing, crime laboratory, and courtroom presentation using evidence such as fingerprints, bodily fluids, hairs, fibers, paint, glass, projectiles or weapons utilizing appropriate scientific analysis and procedures. Students will also learn the history and the legal aspects as they relate to each discipline of forensic science.</td>
<td></td>
</tr>
<tr>
<td><strong>Prerequisites</strong></td>
<td>Biology and one other Science credit in IPC, Chemistry, Physics, or Anatomy &amp; Physiology</td>
</tr>
<tr>
<td><strong>Term</strong></td>
<td>Year Credit: 1.0 Science State Credit or State Elective Credit</td>
</tr>
<tr>
<td><strong>Course Fee</strong></td>
<td>$50. Comprehensive reading and writing skills are recommended. Offers opportunity to earn either CPR or another industry certification.</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>5616 Dual Credit Criminal Justice/Law Enforcement II</th>
<th>11-12</th>
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<tbody>
<tr>
<td>An overview of the criminal justice system. Topics include the history and philosophy of criminal justice, the definition of crime, and its nature and impact. First semester students receive credit for CRUJ 1301; second semester for CRUJ 1306.</td>
<td></td>
</tr>
<tr>
<td><strong>Prerequisites</strong></td>
<td>Principles of Law, and one other Criminal Justice course, Passing entrance score as per Lone Star College, Admissions Committee Approval</td>
</tr>
<tr>
<td><strong>Term</strong></td>
<td>Year Credit: 1.0 State Elective Credit</td>
</tr>
<tr>
<td>This course receives AP/DC weighting in the GPA. Students may not self-elect out of this course during the school year as no equivalent level course is available. Comprehensive reading and writing skills are recommended as complex laws are read, analyzed, and applied in this course which attributes to a substantial percentage of a student's evaluation. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria.</td>
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<thead>
<tr>
<th>5621 MCJROTC I</th>
<th>9-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Marine Corps JROTC program is a four year program that is designed to prepare students for life beyond high school. The mission of the Marine Corps Junior ROTC is to: develop informed and responsible citizens, develop leadership skills, strengthen character, and help form habits of self-discipline. The second through fourth years of the program build on the first year by offering an opportunity to become involved in leadership roles. Completion of JROTC offers immediate benefits (promotions) for those students choosing to enlist after high school. We also help prepare students with college ROTC and Service Academy Scholarship applications in their junior and senior year. All uniforms, equipment and supplies are furnished by the program except the student’s personal athletic clothing, the cost of which is the responsibility of the student. Students must be able to complete the physical functions associated with military drill and basic forms of exercise. Lastly, students must also be able to fit into issued uniforms. A Physical Education waiver applies to this class.</td>
<td></td>
</tr>
<tr>
<td><strong>Prerequisites</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>Term</strong></td>
<td>Year Credit: 1.0 State Elective Credit and Physical Education Waiver</td>
</tr>
<tr>
<td><strong>Course Fee</strong></td>
<td>$50. Lake Creek students must be able to take two class periods (1st and 2nd) to accommodate being transported to and from Montgomery High School for the class.</td>
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<thead>
<tr>
<th>5622 MCJROTC II</th>
<th>10-12</th>
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<tbody>
<tr>
<td>5623 MCJROTC III</td>
<td>11-12</td>
</tr>
<tr>
<td>5624 MCJROTC IV</td>
<td>12</td>
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<tr>
<td>JROTC I/II/III/IV builds on the first year experience by allowing cadets to be assigned leadership roles within the unit. Cadets learn decision making and the fundamentals of leadership while taking on ever increasing roles of responsibility within the unit. Additionally, cadets assume leadership roles within the after-school teams that further develop their sense of shared purpose and belonging. All general information contained in JROTC I above also applies to JROTC II/III/IV.</td>
<td></td>
</tr>
<tr>
<td><strong>Prerequisites</strong></td>
<td>MCJROTC I Admissions Committee Approval</td>
</tr>
<tr>
<td><strong>Term</strong></td>
<td>Year Credit: 1.0 State Elective Credit and Physical Education Waiver</td>
</tr>
<tr>
<td><strong>Course Fee</strong></td>
<td>$50.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>5632 MCJROTC Drill II</th>
<th>10-12</th>
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</thead>
<tbody>
<tr>
<td>5633 MCJROTC Drill III</td>
<td>11-12</td>
</tr>
<tr>
<td>5634 MCJROTC Drill IV</td>
<td>12</td>
</tr>
<tr>
<td>This course is available only to cadets taking a regular JROTC class. Cadets who attend and are selected after tryouts for the drill teams will develop and refine the leadership skills and sense of teamwork initiated in the regular JROTC classes. Teams include Armed/Unarmed Drill as well as Color Guard. Precision drill, academics and detailed grooming standards are all emphasized in preparation for competitive drill and athletic events. Cadets selected for this class must be available after school on selected days for practice. Cadets will be required to attend competitive events several times throughout the year in/around the state.</td>
<td></td>
</tr>
<tr>
<td><strong>Prerequisites</strong></td>
<td>Admissions Committee Approval</td>
</tr>
<tr>
<td><strong>Term</strong></td>
<td>Year Credit: 1.0 Elective Local Credit</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5641 MCJROTC Student Leadership - Juniors</th>
<th>11</th>
</tr>
</thead>
<tbody>
<tr>
<td>This course is available only to select JROTC juniors who have indicated a desire to enlist immediately after high school, or who are preparing ROTC/Service Academy scholarships. Physical conditioning is emphasized as well as the basic elements of self-discipline necessary to succeed in both a college and military environment. Students are given advanced information regarding enlistment and scholarship opportunities.</td>
<td></td>
</tr>
<tr>
<td><strong>Prerequisites</strong></td>
<td>Admissions Committee Approval</td>
</tr>
<tr>
<td><strong>Term</strong></td>
<td>Year Credit: 1.0 State Elective Credit</td>
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<table>
<thead>
<tr>
<th>5642 MCJROTC Student Leadership - Seniors</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>This course is available only to select JROTC seniors who have indicated a desire to enlist immediately after high school, or who are preparing ROTC/Service Academy scholarships. Physical conditioning is emphasized as well as the basic elements of self-discipline necessary to succeed in both a college and military environment. Students are given advanced information regarding enlistment and scholarship opportunities.</td>
<td></td>
</tr>
</tbody>
</table>
5643 MCJROTC Command Development 12
The Command Development class provides cadets the opportunity to receive advanced training in command and staff tasks associated with the logistic and administrative requirements essential to the functioning of the JROTC unit. These include but are not limited to: supply ordering, inventory and organization; cadet service, promotion and award record keeping; weekly inspection recording and preparation; garrison property inventory and maintenance; armory, ordinance and optical equipment maintenance and inventory; battalion annual cruise book preparation and other functions as determined by the Senior Marine Instructor. This class requires prior approval of the SMI for entry and is only open to senior cadets.

Prerequisites - Admissions Committee Approval
Term: Year Credit: 1.0 State Elective Credit

5801 PLTW - Introduction To Engineering Design 9-10
Introduction to Engineering Design teaches you the engineering design process through activities, problems, and projects. Topics include engineering notebooks, design processes, prototyping, technical sketching, measurement and statistics, 3D computer solid modeling and reverse engineering.

Prerequisites - Concurrent Enrollment or Successful Completion Of Algebra I
Term: Year Credit: 1.0 State Elective Credit
This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses.

5802 PLTW - Civil Engineering and Architecture 10-12
Students learn important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3D architecture design software.

Prerequisites - PLTW - Introduction To Engineering Design, Score of 4+ on IED End of Course Exam, or Principles of Architecture, Interior Design I
Term: Year Credit: 1.0 State Elective Credit
This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses.

5803 PLTW - Aerospace Engineering 10-12
This course propels students’ learning in the fundamentals of atmospheric and space flight. As they explore the physics of flight, students bring the concepts to life by designing an airfoil, propulsion system, and rockets. They learn basic orbital mechanics using industry-standard software. They also explore robot systems through projects such as remotely operated vehicles.

Prerequisites - PLTW - Introduction To Engineering Design, Score of 4+ on IED End of Course Exam or Admissions Committee Approval
Term: Year Credit: 1.0 State Elective Credit
This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses.

5804 PLTW - Digital Electronics 10-12
The study of electronic circuits that are used to process and control digital signals as opposed to analog signals that are varying. This distinction allows for greater signal speed and storage capabilities and has revolutionized the world electronics. Digital electronics is the foundation of all modern electronic devices such as cellular phones, MP3 players, laptop computers, digital cameras, high definition televisions, etc. The major focus of the DE course is to expose students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation.

Prerequisites - PLTW - Introduction To Engineering Design, Score of 4+ on IED or CSP End of Course Exam or Admissions Committee Approval
Term: Year Credit: 1.0 State Elective Credit or Math State Credit
This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses.

5805 PLTW - Principles of Engineering/Engineering Science 11-12
This survey course exposes students to major concepts they'll encounter in a post-secondary engineering course of study. Topics include mechanisms, energy, statics, materials, software control, and kinematics. They develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges, document their work, and communicate solutions.

Prerequisites - PLTW - Introduction To Engineering Design, Physics or concurrent enrollment, Score of 4+ on IED End of Course Exam or Admissions Committee Approval
Term: Year Credit: 1.0 State Elective Credit or Science State Credit
This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses.

5806 PLTW - Engineering Design and Development (Capstone) 12
The knowledge and skills students acquire throughout PLTW Engineering come together in EDD as they identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards, completing EDD ready to take on any post-secondary program or career.

Prerequisites - PLTW - Introduction To Engineering Design, PLTW - Principles of Engineering, Score of 4+ on IED & POE End of Course Exams, and Admissions Committee Approval
Term: Year Credit: 1.0 State Elective Credit
This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses. Requires completed paperwork by posted date. See Engineering teacher for questions concerning course.

5807 Robotics I 10-11
The objective of this course is to introduce the student to basic programming as well as problem solving strategies. This course will involve students in the development, building and programming of a robot. Students will work hands-on in teams to design, build, program and document their progress. Topics may include motor control, gear ratios, torque, friction, sensors, timing, program loops, logic gates, decision-making, timing sequences, propulsion systems and binary number systems. Student designed robots will be programmed to compete in various courses as developed by VEX.

Prerequisites - PLTW - Introduction To Engineering Design, Score of 4+ on IED End of Course Exam or Admissions Committee Approval
Term: Year Credit: 1.0 State Elective Credit
This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses. Requires completed paperwork by posted date. See Engineering teacher for questions concerning course.
5808 **Robotics II** 11-12
The purpose of the Advanced Robotics course is to extend and build on the skills and knowledge of students who have completed the introductory robotics course. Advanced Robotics is built around the extensive understanding of robotic systems and the development of workplace competencies. The main focus of the class involves solving engineering design problems. Students enrolled in this course will prepare and compete in VEX Competitions at a higher level.

**Prerequisites** - PLTW - Introduction to Engineering Design, PLTW - Principles of Engineering, or Introduction to Robotics, Admissions Committee Approval

**Term:** Year  
**Credit:** 1.0 State Elective Credit  
This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses.

**Prerequisites** - None

**Term:** Year  
**Credit:** 1.0 State Elective Credit  
This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses.

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5811 **PLTW - Fundamentals of Computer Science** 9-12
Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. CSP helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation. This course aligns with the AP Computer Science course.

**Prerequisites** - None

**Term:** Year  
**Credit:** 1.0 State Elective Credit  
This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses.

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5812 **AP Computer Science A** 10-12
Focusing on further developing computational-thinking skills through the medium of Android™ App development for mobile platforms, this course utilizes industry-standard tools such as Android Studio, Java™ programming language, XML, and device emulators. Students collaborate to create original solutions to problems of their own choosing by designing and implementing user interfaces and Web-based databases. This course aligns with the AP CS A course. This course can count as both a state math credit and a foreign language credit.

**Prerequisites** - Computer Science Principles/See AP Criteria

**Term:** Year  
**Credit:** 1.0 State Elective Credit  
This course receives AP/DC weighting in the GPA. Students may not self-select out of this course during the school year as no equivalent level course is available. See AP criteria.

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5813 **PLTW - Foundations of Cybersecurity** 11-12
Student will learn about tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. This course raises students' knowledge of and commitment to ethical computing behavior. It also aims to develop students' skills as consumers, friends, citizens, and employees who can effectively contribute to communities with a dependable cyber-infrastructure that moves and processes information safely.

**Prerequisites** - Computer Science Principles

**Term:** Year  
**Credit:** 1.0 State Elective Credit  
This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses.

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5814 **Practicum in STEM** 12
The course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technology education courses in the Computer Science pathway. This course provides content aligned with challenging academic standards and relevant technical knowledge and skills to further their education and succeed in current or emerging professions in Cybersecurity. This course offers the student an opportunity to earn a certification in CompTIA Security+.

**Prerequisites** - Algebra I, Geometry and Cybersecurity

**Term:** Year  
**Credit:** 2.0 State Elective Credit  
This course receives advanced weighting in the GPA. Student/Parent Contract must be submitted along with course registration form for all Advanced & AP courses. Expected cost to student for this course: $339.

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5815 **Practicum in Manufacturing** 12
This course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technology education courses in the Advanced Manufacturing and Machinery Mechanics (Robotics) pathway.

**Prerequisites** - IED, Robotics I, Robotics II (or concurrently)

**Term:** Year  
**Credit:** 2.0 State Elective Credit  
This course receives advanced weighting in the GPA. This course will fill 2 class periods in the student's schedule.

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5816 **AP Computer Science Principles** 10-12
An introduction to the breadth of the field of computer science. In this course, students will learn to design and evaluate solutions to problems through the development of algorithms and programs. They will incorporate abstraction into programs and use data to discover new knowledge. Students will also explain how computing innovations and computing systems, including the Internet, work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical.

**Prerequisites** - PLTW-Fundamentals of Computer Science

**Term:** Year  
**Credit:** 1.0 State Elective Credit or State Foreign Language Credit  
This course receives AP/DC weighting in the GPA.

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5891 **Dual Credit Basic Machine Shop I (at Lone Star College – Conroe)** 11-12
An introductory course that assists the student in understanding the machinist occupation in industry. The student begins by using basic machine tools such as the lathe, milling machine, drill press, power saw and bench grinder. Machine terminology, theory, math, part layout, and bench work using common measuring tools is included. Instruction is designed to provide job specific training for entry-level employment skills in metal machinist careers. Students must be 16 years of age. Course instruction provided at Lone Star College – Conroe Center (transportation will be available). MCHN 1302, 1343, 1338, 1352

**Prerequisites** - Meet LSCS qualifications

**Term:** Year  
**Credit:** 2.0 State Elective Credit  
This course receives AP/DC weighting in the GPA. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria. This course will fill 3 class periods in the student's schedule.

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5892 **Dual Credit Auto Tech (at Lone Star College - Conroe)** 11-12
An introduction to the automotive industry including automotive history, safety practices, shop equipment and tools, vehicle subsystems, service publications, fasteners, professional responsibilities, and automotive maintenance - AUMT 1405, 1407, 1410, 1416. Courses completed in the certificate programs may be applied toward the associate degree in automotive technology. Course instruction provided at Lone Star College – Conroe Center (transportation will be available).

**Prerequisites** - Meet LSCS qualifications

**Term:** Year  
**Credit:** 2.0 State Elective Credit
This course receives AP/DC weighting in the GPA. Students are responsible for the purchase of required textbooks and associated fees. See Dual Credit criteria. This course will fill 3 class periods in the student's schedule.

OTHER COURSES

5511 Health 9-12
Provides students with an introduction to health facts which develop proper attitudes, establish practices and habits that will contribute to personal, family, and community health.
Prerequisites - None
Term: Semester  Credit: 0.5 State Elective Credit

4911 Lead Worthy 9-12
This is a one semester course that teaches key concepts essential for maximum success at the high school level and in life. Study skills will be taught along with how to develop personal goals. Students will learn how to develop relationships, positive self-concept, peer pressure resistance, a positive attitude, work ethic, trust and support. Students will learn to be proactive leaders instead of reactive.
Prerequisites - None
Term: Semester  Credit: 0.5 State Elective Credit

4913 GT Independent Study I 11-12
This course is designed to allow students to pursue self-directed study in an area of personal interest. Students will be required to submit a proposal for a course of study, complete with a syllabus and an end-product that demonstrates mastery of the proposed topic. This class is wide open for the motivated student. MOOCs, business plans, mentorships, and original research are all examples of possible areas of study. Proposal forms for self-directed study topics must be submitted when course selections are due.
Prerequisites - Student Must Be Identified As Gifted And Talented/Admissions Committee Approval
Term: Year  Credit: 1.0 State Elective Credit
This course will be graded as pass/fail.

4915 GT Independent Study II 12
This course is designed to allow students to pursue self-directed study in an area of personal interest. Students will be required to submit a proposal for a course of study, complete with a syllabus and an end-product that demonstrates mastery of the proposed topic. This class is wide open for the motivated student. MOOCs, business plans, mentorships, and original research are all examples of possible areas of study. Proposal forms for self-directed study topics must be submitted when course selections are due.
Prerequisites - Student Must Be Identified As Gifted And Talented/Admissions Committee Approval
Term: Year  Credit: 1.0 State Elective Credit
This course will be graded as pass/fail.

6601 Study Skills I 9-10
6602 Study Skills II 10-12
The students will learn how to use the tools offered in the high school to help them succeed in the classroom. They will learn how to study using the following skills: time management, organization, goal setting, making schedules, stress management, critical thinking, memorization, and vocabulary building exercises.