

Plano Independent School District

# **COURSE CATALOG**

**High School / Grades 9-12 / 2011-2012**

**FOR STUDENTS  
ENTERING 9<sup>TH</sup> GRADE  
IN 2011 – 2012  
IT IS IMPORTANT  
THAT THE STUDENT  
KEEP  
THIS CATALOG UNTIL  
GRADUATION**

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Advanced Graphic Design & Illustration Student, Plano West Senior High



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Teamwork for Excellence



**P L A N O**  
Independent School District

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Dear Students and Parents;

On behalf of the Plano Independent School District's Board of Trustees and administration, we are pleased to provide this Course Catalog for the student population. This catalog has been prepared to assist students in making wise decisions concerning programs and course choices during their secondary years. The Plano ISD instructional staff has assembled information including a description of each course and its requirements in the secondary program to help in the decision-making process.

The goal of the Plano Independent School District is to prepare students as thoroughly as possible for a successful transition to attend college. To achieve this goal, parents and students are urged to review carefully the information contained in this catalog and to work closely with school counselors to develop four-year, state-recommended educational plans.

With careful and thoughtful planning and strong communication with teachers, counselors, administrative staff, and parents, students will be well on their way to a successful career in a Plano ISD secondary school.

Sincerely,

A handwritten signature in black ink, appearing to read "Douglas Otto". The signature is written in a cursive style.

Dr. Douglas Otto  
Superintendent of Schools





The Plano Independent School District *Course Catalog* lists the courses that our high schools and senior high schools generally make available to students. **It should be noted, however, that not all of the courses listed are scheduled every year.** Since it is not economically feasible to schedule classes in which only a few students enroll, the class may not be offered for the current year or on all campuses. Sufficient numbers of student requests for specific courses then become the determining factor as to whether or not a course is scheduled.

The *Course Catalog* provides a Table of Contents and an Index to assist in locating specific areas of information. The first section of the guide contains general information. The second section provides the specific description of courses by department and/or subject area. Descriptions, prerequisites, grade levels, and credits are listed for each course. The last section lists career and technical education courses and information.

The Course Catalog is also available online. The Plano ISD web site address for the Course Catalog is as follows: <http://www.pisd.edu/students/courses/index.shtml>.

## **MISSION**

### **...statement of purpose and function**

The Plano Independent School District  
will provide an excellent education  
for all students.

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## Graduation Requirements – Students Entering 9th Grade: 2007-08, 2008-09 or 2009-10

SUBJECT AREA	MINIMUM PROGRAM Δ	STATE BOARD OF EDUCATION RECOMMENDED PROGRAM ]	DISTINGUISHED ACHIEVEMENT PROGRAM ]
<b>ENGLISH</b>	<b>4 credits:</b> English I, II, III, IV	<b>4 credits:</b> English I, II, III, IV	<b>4 credits:</b> English I, II, III, IV
<b>MATH *</b>	<b>3 credits:</b> MUST INCLUDE Algebra I, Geometry, 3 <sup>rd</sup> math	<p style="text-align: center;"><b>4 CREDITS TOTAL</b></p> <p><b>3 credits</b></p> <ul style="list-style-type: none"> <li>• Algebra I, Geometry, Algebra II</li> </ul> <p style="text-align: center;">AND</p> <p><b>1 credit</b> After completing the first 3 credits from above, a student must take a 4<sup>th</sup> year of math, selected from one of the following:</p> <ul style="list-style-type: none"> <li>• Math Independent Study</li> <li>• Pre-Calculus or IB Pre-Calculus</li> <li>• IB Math Studies</li> <li>• AP Statistics</li> <li>• AP Calculus AB or IB Calculus SL</li> <li>• AP Calculus BC or IB Calculus HL</li> <li>• AP/IB Computer Science***</li> <li>• Concurrent enrollment in college courses</li> <li>• Additional courses, if identified by the SBOE, may be added</li> </ul> <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> <li>▪ Algebra I</li> <li>▪ Geometry</li> <li>▪ Math Models</li> <li>▪ Algebra II</li> </ul>	<p style="text-align: center;"><b>4 CREDITS TOTAL</b></p> <p><b>3 credits</b></p> <ul style="list-style-type: none"> <li>• Algebra I, Geometry, Algebra II</li> </ul> <p style="text-align: center;">AND</p> <p><b>1 credit</b> consisting of SBOE approved math course for which Algebra II is a prerequisite, which could include:</p> <ul style="list-style-type: none"> <li>• Math Independent Study</li> <li>• Pre-Calculus or IB Pre-Calculus</li> <li>• IB Math Studies</li> <li>• AP Statistics</li> <li>• AP Calculus AB or IB Calculus SL</li> <li>• AP Calculus BC or IB Calculus HL</li> <li>• AP/IB Computer Science ***</li> <li>• Concurrent enrollment in college courses</li> <li>• Additional courses, if identified by the SBOE, may be added</li> </ul> <p>(Note: Mathematical Models with Applications cannot count on this program.)</p>
<b>SCIENCE</b>	<p style="text-align: center;"><b>3 CREDITS TOTAL</b></p> <ul style="list-style-type: none"> <li>• Biology</li> <li>• IPC</li> <li>• Any science course approved by SBOE.</li> </ul> <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> <li>• Biology</li> <li>• Chemistry</li> <li>• Physics</li> </ul> <p>(Note: All students must take biology. Students that do not take IPC must take Chemistry and Physics.)</p>	<p style="text-align: center;"><b>4 CREDITS TOTAL</b></p> <ul style="list-style-type: none"> <li>• Biology</li> <li>• Chemistry</li> <li>• Physics</li> </ul> <p style="text-align: center;">AND</p> <p><b>1 credit</b> After completing the first 3 credits from above, a student must take a 4<sup>th</sup> year of science, selected from one of the following:</p> <ul style="list-style-type: none"> <li>• Anatomy and Physiology</li> <li>• AP Biology or IB Biology (second year)</li> <li>• AP Chemistry or IB Chemistry</li> <li>• AP Environmental Science</li> <li>• AP Physics or IB Physics</li> <li>• IB Environmental Systems</li> <li>• Environmental Systems</li> <li>• Earth and Space Science</li> <li>• Scientific Research and Design</li> <li>• Food Science</li> <li>• Forensic Science</li> <li>• Engineering Design and Problem Solving</li> <li>• Concurrent enrollment in college courses</li> <li>• Additional courses, if identified by the SBOE, may be added</li> </ul> <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> <li>• Biology</li> <li>• IPC</li> <li>• Chemistry</li> <li>• Physics</li> </ul> <p>(Note: IPC must be taken before Chemistry and Physics.)</p>	<p style="text-align: center;"><b>4 CREDITS TOTAL</b></p> <ul style="list-style-type: none"> <li>• Biology</li> <li>• Chemistry</li> <li>• Physics</li> </ul> <p style="text-align: center;">AND</p> <p><b>1 credit</b> After successful completion of Biology, Chemistry and Physics, a student may select the 4<sup>th</sup> required credit from any of the following lab-based courses:</p> <ul style="list-style-type: none"> <li>• Anatomy and Physiology</li> <li>• AP Biology or IB Biology (second year)</li> <li>• AP Chemistry or IB Chemistry</li> <li>• AP Environmental Science</li> <li>• AP Physics or IB Physics</li> <li>• IB Environmental Systems</li> <li>• Environmental Systems</li> <li>• Earth &amp; Space Science</li> <li>• Scientific Research and Design</li> <li>• Concurrent enrollment in college courses</li> <li>• Food Science</li> <li>• Forensic Science</li> <li>• Engineering Design and Problem Solving</li> <li>• Additional courses, if identified by the SBOE, may be added</li> </ul> <p><b>Note:</b> IPC CANNOT count for this program.</p>
<b>SOCIAL STUDIES</b>	<b>4 Credits</b> World Geography, World History, US History, US Government, Economics	<b>4 Credits</b> World Geography, World History, US History, US Government, Economics	<b>4 Credits</b> World Geography, World History, US History, US Government, Economics
<b>FINE ARTS ****</b>	<b>0.0 Credit</b>	<b>1.0 Credit</b> in the same course Art, Music, Theater, Dance, Principles & Elements of Floral Design	<b>1.0 Credit</b> in the same course Art, Music, Theater, Dance, Principles & Elements of Floral Design

<b>SPEECH ****</b>	<b>0.5 Credit</b> Communication Applications	<b>0.5 Credit</b> Communication Applications	<b>0.5 Credit</b> Communication Applications
<b>HEALTH</b>	<b>0.5 Credit or 1.0 Credit</b> of Principles of Health Science	<b>0.5 Credit or 1.0 Credit</b> of Principles of Health Science	<b>0.5 Credit or 1.0 Credit</b> of Principles of Health Science
<b>COMPUTER TECHNOLOGY APPLICATION ***</b>	<b>1.0 Credit</b> from the following: Computer Science, Business Information Management, Concepts of Engineering & Technology, Desktop Publishing, Digital and Interactive Media, Video Technology or Web Mastering	<b>1.0 Credit</b> from the following: Computer Science, Business Information Management, Concepts of Engineering & Technology, Desktop Publishing, Digital and Interactive Media, Video Technology or Web Mastering	<b>1.0 Credit</b> from the following: Computer Science, Business Information Management, Concepts of Engineering & Technology, Desktop Publishing, Digital & Interactive Media, Video Technology or Web Mastering
<b>FOREIGN LANGUAGE</b>	<b>0.0 Credit</b>	<b>2.0 Credits</b> Foreign language must be 2 credits of the same language.	<b>3.0 Credits</b> Foreign language must be 3 credits of the same language.
<b>PHYSICAL EDUCATION **</b>	<b>1.5 Credits</b> from any combination of the following: <ul style="list-style-type: none"> <li>• Foundations of Personal Fitness;</li> <li>• Adventure/Outdoor Education:</li> <li>• Aerobic Activities; and</li> <li>• Team or Individual Sports</li> </ul> Credit may be earned for a specific PE course only once. Each PE course may be taken for either 0.5 or 1 credit. Credit for any of the courses listed above may be earned through participation in the following activities: <ul style="list-style-type: none"> <li>• Athletics (up to 4 credits)</li> <li>• JROTC (up to 1 credit)</li> <li>• Off Campus PE (up to 4 credits)</li> <li>• Drill Team (Up to 1 credit)</li> <li>• Marching Band (up to 1 credit)</li> <li>• Cheerleading (up to 1 credit)</li> </ul>	<b>1.5 Credits</b> from any combination of the following: <ul style="list-style-type: none"> <li>• Foundations of Personal Fitness;</li> <li>• Adventure/Outdoor Education:</li> <li>• Aerobic Activities; and</li> <li>• Team or Individual Sports</li> </ul> Credit may be earned for a specific PE course only once. Each PE course may be taken for either 0.5 or 1 credit. Credit for any of the courses listed above may be earned through participation in the following activities: <ul style="list-style-type: none"> <li>• Athletics (up to 4 credits)</li> <li>• JROTC (up to 1 credit)</li> <li>• Off Campus PE (up to 4 credits)</li> <li>• Drill Team (Up to 1 credit)</li> <li>• Marching Band (up to 1 credit)</li> <li>• Cheerleading (up to 1 credit)</li> </ul>	<b>1.5 Credits</b> from any combination of the following: <ul style="list-style-type: none"> <li>• Foundations of Personal Fitness;</li> <li>• Adventure/Outdoor Education:</li> <li>• Aerobic Activities; and</li> <li>• Team or Individual Sports</li> </ul> Credit may be earned for a specific PE course only once. Each PE course may be taken for either 0.5 or 1 credit. Credit for any of the courses listed above may be earned through participation in the following activities: <ul style="list-style-type: none"> <li>• Athletics (up to 4 credits)</li> <li>• JROTC (up to 1 credit)</li> <li>• Off Campus PE (up to 4 credits)</li> <li>• Drill Team (Up to 1 credit)</li> <li>• Marching Band (up to 1 credit)</li> <li>• Cheerleading (up to 1 credit)</li> </ul>
<b>ELECTIVES</b>	<b>6.5 Credits</b>	<b>3.5 Credits</b>	<b>2.5 Credits</b>
<b>SPECIALIZATION COMPONENTS</b>	N/A	N/A	<b>In addition to the required credits, students must also complete 4 advanced measures for the Distinguished Achievement Program. For details regarding this program see page 8.</b>
<b>TOTAL</b>	<b>24 Credits</b>	<b>26 Credits</b>	<b>26 Credits</b>

The College Board advanced placement courses and International Baccalaureate courses may be substituted for requirements in appropriate areas.

**In addition to credit requirements students must show mastery on ALL state EXIT LEVEL TESTS.**

\* Middle school credit is **NOT** granted until a student has passed **both** semesters with a grade above 70. Students can **NOT** complete 1<sup>st</sup> semester at middle school and 2<sup>nd</sup> semester at summer school, re: Spanish, French, and Algebra I. If Algebra I is taken in 8<sup>th</sup> grade, it must be recorded on the transcript. **Three years of math above Algebra I must be completed.**

\*\* Students who take marching band upon successful completion of the fall semester will receive a 0.5 PE substitution of the physical education requirement. All students are required to complete 1.5 credits of physical education for graduation. Students may be classified for physical education on the basis of health as to unrestricted, restricted, and adapted and remedial instruction. Students may earn no more than 4.0 credits toward state graduation requirements in physical education.

\*\*\* AP/IB Computer Science may count as either a math requirement or a computer technology requirement but not both.

\*\*\*\* Additional courses, if determined by the SBOE, may be added.

] Students graduating under the SBOE Recommended Program or the Distinguished Achievement Program may qualify for TEXAS Grant (See page 9.)

**The Plano ISD website site address for the Course Catalog is as follows:** <http://www.pisd.edu/students/courses/index.shtml>.  
**The website site contains the current year and previous years for student / parent reference.**

△ **Minimum Plan Eligibility Requirements**

- Require a *written agreement* between the student's parent/guardian and a school counselor (or school administrator) that the student should be allowed to pursue the *Minimum* plan instead of at least the *Recommended* Plan.
- Require that before a decision can be made for the student to pursue the *Minimum* plan, the student must:
  - Be at least 16 years old, or
  - Have completed two credits for graduation in each subject of the Foundation curriculum, or
  - Have failed to be promoted to 10<sup>th</sup> grade one or more times as determined by the school district.
- *Exemption:* Students with disabilities to be automatically placed in the *Minimum* plan if the student's ARD places the student in a modified curriculum area.

## Graduation Requirements – Students Entering 9<sup>th</sup> Grade 2010 – 11 School Year and After

SUBJECT AREA	MINIMUM PROGRAM Δ	STATE BOARD OF EDUCATION RECOMMENDED PROGRAM ]	DISTINGUISHED ACHIEVEMENT PROGRAM ]
<b>ENGLISH</b>	<b>4 credits:</b> English I, II, III, IV	<b>4 credits:</b> English I, II, III, IV	<b>4 credits:</b> English I, II, III, IV
<b>MATH *</b>	<b>3 credits:</b> MUST INCLUDE Algebra I, Geometry, 3 <sup>rd</sup> math	<b>4 CREDITS TOTAL</b> <b>3 credits</b> • Algebra I, Geometry, Algebra II <b>AND</b> <b>1 credit</b> After completing the first 3 credits from above, a student must take a 4 <sup>th</sup> year of math, selected from one of the following: • Math Independent Study • Pre-Calculus or IB Pre-Calculus • IB Math Studies • AP Statistics • AP Calculus AB or IB Calculus SL • AP Calculus BC or IB Calculus HL • AP/IB Computer Science • Concurrent enrollment in college courses • Additional courses, if identified by the SBOE, may be added <b>OR</b> • Algebra I • Geometry • Math Models • Algebra II	<b>4 CREDITS TOTAL</b> <b>3 credits</b> • Algebra I, Geometry, Algebra II <b>AND</b> <b>1 credit</b> consisting of SBOE approved math course for which Algebra II is a prerequisite, which could include: • Math Independent Study • Pre-Calculus or IB Pre-Calculus • IB Math Studies • AP Statistics • AP Calculus AB or IB Calculus SL • AP Calculus BC or IB Calculus HL • AP/IB Computer Science • Concurrent enrollment in college courses • Additional courses, if identified by the SBOE, may be added <b>(Note: Mathematical Models with applications cannot count on this program.)</b>
<b>SCIENCE</b>	<b>3 CREDITS TOTAL</b> • Biology • IPC • Any science course approved by SBOE. <b>OR</b> • Biology • Chemistry • Physics <b>• (Note: All students must take Biology. Students that do not take IPC must take Chemistry and Physics.)</b>	<b>4 CREDITS TOTAL</b> • Biology • Chemistry • Physics <b>AND</b> <b>1 credit</b> After completing the first 3 credits from above, a student must take a 4 <sup>th</sup> year of science, selected from one of the following: • Anatomy and Physiology • AP Biology or IB Biology (second year) • AP Chemistry or IB Chemistry • AP Environmental Science • AP Physics or IB Physics • IB Environmental Systems • Environmental Systems • Earth and Space Science • Scientific Research and Design • Food Science • Forensic Science • Engineering Design and Problem Solving • Concurrent enrollment in college courses • Additional courses, if identified by the SBOE, may be added <b>OR</b> • Biology • IPC • Chemistry • Physics <b>(Note: IPC must be taken before Chemistry and Physics.)</b>	<b>4 CREDITS TOTAL</b> • Biology • Chemistry • Physics <b>AND</b> <b>1 credit</b> After successful completion of Biology, Chemistry and Physics, a student may select the 4 <sup>th</sup> required credit from any of the following lab-based courses: • Anatomy and Physiology • AP Biology or IB Biology (second year) • AP Chemistry or IB Chemistry • AP Environmental Science • AP Physics or IB Physics • IB Environmental Systems • Environmental Systems • Earth & Space Science • Scientific Research and Design • Food Science • Forensic Science • Engineering Design and Problem Solving • Concurrent enrollment in college courses • Additional courses, if identified by the SBOE, may be added <b>(Note: IPC CANNOT count for this program.)</b>
<b>SOCIAL STUDIES</b>	<b>4 Credits</b> World Geography, World History, US History, US Government, Economics	<b>4 Credits</b> World Geography, World History, US History, US Government, Economics	<b>4 Credits</b> World Geography, World History, US History, US Government, Economics
<b>FINE ARTS ***</b>	<b>1.0 Credit</b> Art, Music, Theater, Dance, Principles & Element of Floral Design	<b>1.0 Credit</b> in the same course Art, Music, Theater, Dance, Principles & Element of Floral Design	<b>1.0 Credit</b> in the same course Art, Music, Theater, Dance, Principles & Element of Floral Design

<b>SPEECH ***</b>	<b>0.5 Credit</b> Communication Applications	<b>0.5 Credit</b> Communication Applications	<b>0.5 Credit</b> Communication Applications
<b>HEALTH</b>	<b>0.5 Credit</b> or <b>1.0 Credit</b> of Principles of Health Science	<b>0.5 Credit</b> or <b>1.0 Credit</b> of Principles of Health Science	<b>0.5 Credit</b> or <b>1.0 Credit</b> of Principles of Health Science
<b>FOREIGN LANGUAGE</b>	<b>0.0 Credit</b>	<b>2.0 Credits</b> Foreign language must be 2 credits of the same language.	<b>3.0 Credits</b> Foreign language must be 3 credits of the same language.
<b>PHYSICAL EDUCATION **</b>	<b>1.0 Credit</b> from any combination of the following: <ul style="list-style-type: none"> <li>• Foundations of Personal Fitness;</li> <li>• Adventure/Outdoor Education;</li> <li>• Aerobic Activities; and</li> <li>• Team or Individual Sports</li> </ul> Credit may be earned for a specific PE course only once. Each PE course may be taken for either 0.5 or 1 credit. Credit for any of the courses listed above may be earned through participation in the following activities: <ul style="list-style-type: none"> <li>• Athletics (up to 4 credits)</li> <li>• JROTC (up to 1 credit)</li> <li>• Off Campus PE (up to 4 credits)</li> <li>• Drill Team (Up to 1 credit)</li> <li>• Marching Band (up to 1 credit)</li> <li>• Cheerleading (up to 1 credit)</li> </ul>	<b>1.0 Credit</b> from any combination of the following: <ul style="list-style-type: none"> <li>• Foundations of Personal Fitness;</li> <li>• Adventure/Outdoor Education;</li> <li>• Aerobic Activities; and</li> <li>• Team or Individual Sports</li> </ul> Credit may be earned for a specific PE course only once. Each PE course may be taken for either 0.5 or 1 credit. Credit for any of the courses listed above may be earned through participation in the following activities: <ul style="list-style-type: none"> <li>• Athletics (up to 4 credits)</li> <li>• JROTC (up to 1 credit)</li> <li>• Off Campus PE (up to 4 credits)</li> <li>• Drill Team (Up to 1 credit)</li> <li>• Marching Band (up to 1 credit)</li> <li>• Cheerleading (up to 1 credit)</li> </ul>	<b>1.0 Credit</b> from any combination of the following: <ul style="list-style-type: none"> <li>• Foundations of Personal Fitness;</li> <li>• Adventure/Outdoor Education;</li> <li>• Aerobic Activities; and</li> <li>• Team or Individual Sports</li> </ul> Credit may be earned for a specific PE course only once. Each PE course may be taken for either 0.5 or 1 credit. Credit for any of the courses listed above may be earned through participation in the following activities: <ul style="list-style-type: none"> <li>• Athletics (up to 4 credits)</li> <li>• JROTC (up to 1 credit)</li> <li>• Off Campus PE (up to 4 credits)</li> <li>• Drill Team (Up to 1 credit)</li> <li>• Marching Band (up to 1 credit)</li> <li>• Cheerleading (up to 1 credit)</li> </ul>
<b>ELECTIVES</b>	<b>7 Credits</b>	<b>5 Credits</b>	<b>4 Credits</b>
<b>SPECIALIZATION COMPONENTS</b>	N/A	N/A	<b>In addition to the required credits, students must also complete 4 advanced measures for the Distinguished Achievement Program. For details regarding this program see page 8.</b>
<b>TOTAL</b>	<b>24 Credits</b>	<b>26 Credits</b>	<b>26 Credits</b>

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- Require that before a decision can be made for the student to pursue the *Minimum* plan, the student must:
  - Be at least 16 years old, or
  - Have completed two credits for graduation in each subject of the Foundation curriculum, or
  - Have failed to be promoted to 10<sup>th</sup> grade one or more times as determined by the school district.
- *Exemption:* Students with disabilities to be automatically placed in the *Minimum* plan if the student's ARD places the student in a modified curriculum area.

## Grade Point Average (GPA) Chart

Plano ISD  
043910

EIC  
(Local)

Academic Achievement:  
Class Ranking

Grade points for **grades 9 – 12** shall be assigned according to the chart below:

Numerical Grade	AP / IB*	Pre-AP / IH / Honors*	Regular	Modified	Applied/Fundamental
97 & above	5.0	4.5	4.0	3.5	2.5
93 – 96	4.8	4.3	3.8	3.3	2.3
90 – 92	4.6	4.1	3.6	3.1	2.1
87 – 89	4.4	3.9	3.4	2.9	1.9
83 – 86	4.2	3.7	3.2	2.7	1.7
80 – 82	4.0	3.5	3.0	2.5	1.5
77 – 79	3.8	3.3	2.8	2.3	1.3
73 – 76	3.6	3.1	2.6	2.1	1.1
71 – 72	3.4	2.9	2.4	1.9	1.0
70	3.0	2.5	2.0	1.5	1.0
Below 70	0	0	0	0	0

\* EIC (EXHIBIT) for identified courses and grade points.

The grade earned in a six weeks grading period transfers when a student changes levels, i.e., honors to regular or regular to honors, etc.

## Distinguished Achievement Program

Purpose: The Distinguished Achievement Program recognizes students who demonstrate levels of performance equivalent to that of college students or work done by professionals in the arts, sciences, business, industry, or in community service. Student performance on advanced measures, other than Advanced Placement and International Baccalaureate examinations, may be assessed through an external review process.

Students must obtain approval prior to pursuing credits for college courses, products of professional quality, or original research/projects. Documentation of completion of the four advanced measures even if this documentation is received after graduation (in the case of AP or IB scores) must be provided.

### Distinguished Achievement Program (26 Credits)

#### **Requirements:**

A student must achieve any combination of four of the following prior to graduation:

#### **Original research/project:**

(No more than two of the four advanced measures may come from this category.)

- Individual product of professional quality as judged by a panel of professionals in the field that is the focus of the project. Prior approval is required for this category.
- Approved Individual Products/Original Research Projects
- International Baccalaureate extended essay
- Award winning Science Fair Projects approved through Plano ISD Science Department
- Mentor based projects completed through approved mentor courses

Students must be enrolled in an approved course or under the supervision of a Plano ISD teacher to complete an advanced measure in this category. External evaluation of a project must be maintained in the student's cumulative folder and documented on the student's permanent record card and counselor card.

#### **Test data:**

(No more than 4 of the advanced measures may come from this category.)

- A score of three or above on a College Board Advanced Placement examination;
- A score of four or above on an International Baccalaureate examination;
- A score on the Preliminary SAT/National Merit Scholarship Qualifying Test (PSAT/NMSQT) that qualifies a student for recognition as a commended scholar or higher by the College Board and National Merit Scholarship Corporation; as part of the National Hispanic Recognition Program (NHRP) of the College Board or as part of the National Achievement Scholarship Program of the National Merit Scholarship Corporation. The PSAT/NMSQT score shall count as only one advanced measure regardless of the number of honors received by the student.

#### **College courses:**

(No more than 4 of the advanced measures may come from this category.)

- A grade of A or B in a college course. (Examples: advanced math, foreign language or dual enrollment in Plano ISD.) Prior approval is required for this category.

Students Graduation under the SBOE Recommended Program or the Distinguished Achievement Program may qualify for the TEXAS Grant (See page 9.)



## Toward Excellence, Access, and Success (TEXAS) Grant Program

www.COLLEGEFORALLTEXANS.COM

### Program Purpose

The Texas Legislature established the TEXAS (Toward EXcellence, Access and Success) Grant to make sure that well-prepared high school graduates with financial need could go to college.

### Who can apply? Students who...

For an initial award

- Are Texas residents
- Have not been convicted of a felony or crime involving a controlled substance
- Show financial need
- Have an EFC less than or equal to 4000
- Register for the Selective Service or are exempt from this requirement
  
- **AND**
  - Be a graduate of an accredited high school in Texas not earlier than the 1998-99 school year
  - Complete the Recommended High School Program or Distinguished Achievement Program in high school
  - Enroll in a non-profit public college or university in Texas within 16 months of graduation from a public or accredited private high school in Texas and
  - Have accumulated no more than 30 semester credit hours, excluding those earned for dual or concurrent courses or awarded for credit by examination (AP, IB, or CLEP)
  
- **OR**
  - Have earned an associate degree from a public technical, state or community college in Texas and
  - Enroll in any public university in Texas no more than 12 months after receiving their associate's degree.

Students entering the program from high school who continue in college and who meet program academic standards can receive awards for up to 150 semester credit hours, until they receive a bachelor's degree, or for five years if enrolled in a 4-year degree plan or six years if enrolled in a 5-year degree plan, whichever comes first.

Students entering the program based on acquisition of an associate's degree who continue in college and who meet program academic standards can receive awards for up to 90 semester credit hours, until they receive a bachelor's degree, or for three years if enrolled in a 4-year degree plan or four years if enrolled in a 5-year degree plan, whichever comes first.

The academic requirements for continuing in the program are:

- At the end of the first year, the student entering the program from high school must be meeting the *school's* Satisfactory Academic Progress (SAP) requirements.
- At the end of the second year in the program or later years, all students must complete at least 75% of the hours attempted in the prior academic year, have an overall college grade point average (GPA) of at least 2.5 on a 4.0 scale and complete at least 24 semester credit hours per year.

### Where may awards be used?

A TEXAS Grant may be used to attend any public institution of higher education in Texas.

### **How much can be awarded?**

The award amount (including state and institutional funds) is equal to the student's tuition and required fees.

For 2009-2010, the state amount is approximately:

- \$6,080 per year for public universities and state college students
- \$1,780 per year for public community college students
- \$2,680 per year for public technical college students

### **How can you apply?**

You apply for the TEXAS Grant when you complete and submit the Free Application for Federal Student Aid (FAFSA) or other application as required by your college's financial aid office. Funding is limited, so you need to submit your application as soon as possible after January 1 of your senior year. The financial aid office at each college and university will determine if TEXAS Grant is part of the aid package that is offered to you.

### **Additional Information**

Your eligibility for this program is determined by the financial aid office at your college. Contact your college financial aid office for additional information on eligibility or availability of funds.

To read more about this program check out: Texas Education Code, §56.301 and Coordinating Board Rules, Chapter 22 L.



## College Preparation Timeline

<u>Grades</u>	<u>Goals and Objectives</u>
Grades 6 – 7	Begin to establish career goals and objectives.
Grade 8	Plan a four-year high school academic program. Each student attends an academic conference with parents and a school counselor during which course selections are chosen for the high school years. Review college catalogs, publications and Website sites, which give college profiles and entrance requirements. Participate in ACT-Explorer testing.
Grade 9	Re-evaluate career goals and objectives. Review academic four-year plan.
Grade 10	Review academic plan. Re-evaluate goals and objectives. Confer with parent(s) and the high school counselor to decide on courses for the 11 <sup>th</sup> grade. Take a practice PSAT in October. Participate in the ACT-PLAN testing. Review college catalogs, publications, and Website sites which give college profiles.
Grade 11	Review academic plans and narrow college choices. Confer with parent(s) and the high school counselor to decide on courses for the senior year and to discuss post graduation plans. Attend College Night in September. Take PSAT in October (National Merit Qualifying Test). Take SAT or ACT in the late spring. Explore scholarship opportunities.
Grade 12	Finalize college choices. Confer with counselor in early fall. Attend College Night in September. Take SAT and/or ACT in October or November. Send regular decision applications early in the fall semester. Submit housing application in the early fall. Discuss financial aid programs in November or December. Send federal financial aid applications in January. Send local scholarship application in spring.

“*University Ready* is designed to aid Plano students and parents as they prepare for all aspects of post-secondary experience.” Be sure to take time to investigate Plano ISD’s *University Ready* at <http://ur.pisd.edu/index.shtml> as a resource tool during your college preparation years.

## High School Program

### **Textbooks**

Textbooks are state-owned (the property of Texas) and are issued to students in Plano ISD free of charge. Each student is responsible for his/her textbooks issued by their school and is responsible for payment for lost and/or damaged textbooks occurring in the school year. No textbooks are distributed from the campuses for the following: Credit by Exam, correspondence courses, eSchool courses and concurrent enrollment courses.

### **Courses**

#### **Acceleration**

Students may request to take examination for acceleration in academic subjects. However, campuses are not required to provide accelerated courses on their campus. See the school counselor for more information.

#### **Advanced Placement Program**

The Advanced Placement (AP) Program of the College Board enables students to complete college-level studies at Plano East Senior High, Plano Senior High and Plano West Senior High Schools. A limited number of advanced placement courses may be offered on the high school campuses. This “academic bridge” helps smooth the transition from high school to college. The primary goals of the AP Program are to enrich the secondary school experience of students ready to apply themselves to college-level courses and to provide the means by which colleges may grant credit or placement, or both, to students with satisfactory AP test scores.

#### **Correspondence Courses, Night School, and Summer School**

Credits for high school graduation may not be earned until after the 8<sup>th</sup> grade year unless the student is enrolled on their schedule of classes in PISD middle /high school courses. Grade points are awarded for Night School and Summer School. Grade points will not be awarded for Correspondence Courses.

#### **Dual Enrollment Courses**

Plano ISD has a dual enrollment agreement with Collin College. More information will be available through the high school and senior high school counseling departments.

#### **Elective Courses**

In addition to these required courses, students may choose other courses to complete their schedules. The number of elective courses that students may choose varies from year to year.

#### **eSchool**

Students may earn a total of three credits through correspondence and/or eSchool online courses. More information can be found in this course catalog and/or accessed on the website site at <http://www.planoisdeshool.net/>. Currently enrolled Plano ISD students must follow the approval process for these courses through their school counselor. Credits for high school graduation may not be earned until after the 8<sup>th</sup> grade year unless the student is enrolled on their schedule of classes in PISD middle /high school courses. No grade points will be awarded for eSchool courses.

#### **Honors/IH/PreAP Courses**

Honors/IH/PreAP courses have specific entry criteria for highly motivated students. A differentiated honors curriculum includes a wider range and greater depth of subject matter than that of the regular course. Emphasis is placed on higher level and critical thinking skills, on creative, productive thinking and on independent guided research.

#### **International Baccalaureate (starting in Grades 9 – 10)**

The International Baccalaureate (IB) Full-Diploma Program is an internationally recognized, comprehensive two-year curriculum of rigorous study in the 11<sup>th</sup> and 12<sup>th</sup> grade years that culminates in exams in six subject areas: English, a foreign language, social studies, science, mathematics and an elective.

To qualify for the IB program, a student must first be accepted into the International Honors program. If a student is planning to apply to participate in the International Honors Program, please note the following recommendations for course selections:

1. As an international program, IB requires that students be fluent in a second language. Therefore, a student should begin the study of French or Spanish as early as possible, preferably in middle school. The examination the student takes, as a junior or senior, in a second language will demonstrate the student's oral communication skills as well as the student's written skills.
2. Students wishing to take an exam in calculus their senior year should begin Honors Algebra I in the eighth grade.
3. Students planning to take a higher-level IB exam in history will need to take IB US History as a junior at Plano East. This will satisfy the Plano ISD US History requirement as well as the IB requirement.

### **Local/No State Credit Courses**

Local credit courses are approved by the Board of Trustees for local credit only. **These courses do not count toward state graduation requirements.** Local credit courses cannot be used to fulfill the minimum number of credits on any graduation plan. Local credit courses are included in the calculation of the Grade Point Average (GPA) with the exception of all aide positions, H.O.P.E., Academic Decathlon and courses repeated for local credit.

### **Required Courses**

These courses are required to fulfill state educational guidelines. A course may or may not have a prerequisite; a prerequisite is a course that must be taken prior to the course under consideration.

## **Programs**

### **Athletic Program**

The Plano ISD offers a wide range of University Interscholastic League competitive sports in which the students may participate. (Some activities will require tryouts to select team members.)

### **Completion of a medical history/physical examination is required prior to tryouts/participation. Additional parent permission forms are required prior to participation.**

Students must meet state mandated academic and attendance requirements to be eligible to participate in extracurricular activities.

<b>Boys Sports</b>	<b>Girls Sports</b>
Baseball *	Basketball *
Basketball *	Cross Country
Cross Country	Diving *
Diving *	Golf *
Football	Soccer *
Golf *	Softball *
Soccer *	Swimming *
Swimming *	Tennis *
Tennis *	Track
Track	Volleyball *
Wrestling	Wrestling

\* These sports normally require tryouts.

### **Your Responsibility as a Prospective Student Athlete**

If you are planning to enroll in college as a freshman and you wish to participate in Division I or Division II athletics, you must be registered and certified by the NCAA Initial Eligibility Clearinghouse **after completion of the student's junior year**. The Clearinghouse was established as a separate organization by the NCAA member institutions in January 1993. The Clearinghouse ensures consistent interpretation of NCAA initial eligibility requirements for all prospective student athletes at all member institutions. Credit by Exam will not count towards NCAA eligibility requirements. See the website site at [www.ncaaclearinghouse.net](http://www.ncaaclearinghouse.net) for more information.

### **AVID Program** (Advancement Via Individual Determination)

The AVID course is designed to prepare students for success in postsecondary education. AVID I, II, III and IV provide support and skill development in areas specifically aligned with success in rigorous courses in the content areas. A recommendation, application and interview are required. Students must be accepted into the AVID program.

### **Cheerleading Program**

Tryouts for cheerleading are held during the spring semester of the preceding year. All students must meet the criteria set up by the PISD guidelines. Interested students should contact the individual school campus cheerleading sponsor/coach, as tryout packets are available as early as February. Tryouts are conducted during the 5<sup>th</sup> six weeks grading period if possible. For district cheerleader guidelines see <http://www.pisd.edu/common/documents/CheerleaderGuidelinesJune2008.pdf>.

### **Drill Team Program**

Tryouts for drill team are held during the spring semester of the preceding year. All students must meet the criteria set up by the PISD guidelines. Interested students should contact the individual school campus drill team director. Tryout packets for drill team are available as early as January. Tryouts are usually held during the 5<sup>th</sup> six weeks grading period. For district drill team operational and tryout guidelines see <http://www.pisd.edu/common/documents/DrillTeamGuidelinesJune2009.pdf>.

### **English as a Second Language (ESL)**

All students who register in this school district will complete a home language survey form. If this survey indicates that a language other than English is spoken in the home or is spoken by the student most of the time, the student must be referred to the Language Assessment Center for evaluation. After the language evaluation, the LPAC Committee will make recommendations about ESL services. Students who qualify for ESL services may enroll in ESL classes.

The English as a Second Language (ESL) program shall be an integral part of the regular education program. State-adopted English as a second language instructional materials and supplementary materials are used as curriculum tools. This program is aligned with the district's general education literacy program. The English as a second language program shall address the affective, linguistic and cognitive needs of limited English proficient students.

ESL classes, which focus on intensive development of listening, speaking, reading and writing skills in English, are offered to English language learners at all secondary campuses.

### **Gifted and Talented Program**

The high school gifted student is served through the PACE Humanities I and II, honors, IH/PreAP, American Studies, advanced placement and International Baccalaureate courses. In addition, specific subject honors courses and fine arts electives provide challenge and enrichment for these students. Presentation and research projects are important components of all PACE classes.

### **JROTC**

The United States Army's Junior Reserve Officers' Corps, or JROTC, is designed to teach high school students the value of citizenship, leadership, service to the community, personal responsibility, and a sense of accomplishment while instilling in them self-esteem, teamwork and self-discipline. The focus of the organization is reflected in its mission statement – "To Motivate Young People to be Better Citizens." JROTC prepares high school students for responsible leadership roles while making them aware of their rights, responsibilities, and privileges as American citizens. Students are instructed in the following areas: leadership theory and application, learning and the brain, world history, citizenship, communications, wellness, fitness, first aid, geography, map skills, environmental awareness, government, and financial management. The JROTC program provides opportunities for local, state and national competition in the following precision categories: color guard, unarmed drill team, armed drill team, precision air rifle, as well as physical fitness, academic challenge, and sporter air rifle. Students have the opportunity to earn their schools' varsity letter jacket. Additionally, the JROTC program offers a Leadership Camp (5 days), etiquette training in conjunction with a Formal Military Ball, and an opportunity for community service as well participation in a service learning project. The program is a stimulus for promoting graduation from high school, and it provides instruction and rewarding

opportunities that benefit the student, family, community and nation. **There is NO military service requirement for being in JROTC.** JROTC is a great first step to all the military academies and college ROTC scholarships for students who qualify. Additionally, each program's senior Army Instructor assists all cadets in obtaining scholarships from all available sources. Each program (Plano West, Plano Senior and Plano East) is an Honor Unit with Distinction which places each in the top ten percent of the 1645 Army JROTC units world-wide.

### **Special Education Services Program**

Special education services are provided for each student who meets eligibility requirements. Consideration of a student's eligibility for special education services is initiated by a referral to the Campus Monitoring and Intervention Team, which may be requested by parents, school personnel or outside agencies. Parental consent is required prior to assessment, and again, prior to placement in special education.

Components of the special education process include:

- Determining whether a student meets special education eligibility through formal assessment, data collection and determination of educational need
- Preparing an Individualized Education Program (IEP) for each student based on needs, if eligibility is determined
- Implementing the IEP in the least restrictive environment
- Annually evaluating the student's progress and developing the IEP to address the student's needs

Special Education services are provided under state and federal guidelines. Special Education offers specially designed instruction and a full continuum of services to meet a variety of student needs. Programs range from fully self contained learning environments to support in general education classrooms. A student's graduation plan, developed by the ARD/IEP Committee, determines how the student will meet credit and curriculum requirements of the state and district for graduation.

## Physical Education Equivalent (Substitutions)

One credit of physical education is required for graduation by the state of Texas; however, a student may earn up to 4 credits of PE toward graduation.

In addition to the regular physical education courses, there are several ways to accumulate this credit:

**Athletics** – A student who successfully completes athletics receives physical education equivalent credit for each semester of athletics. Eight semesters of athletics or 4 credits may count toward state graduation requirements.

**Cheerleading** – A student who successfully completes cheerleading both fall and spring semesters will receive 1 credit of substitution toward the physical education state graduation requirement. The next year's credit for cheerleading will be awarded through enrollment in gymnastics. For students interested in participating in a U.I.L. sport simultaneously, please see your school counselor for clarification.

**Drill Team** – A student who successfully completes drill team both fall and spring semesters will receive 1 credit of substitution toward the physical education state graduation requirement. The next year's credit for drill team will be awarded through enrollment in Dance for Fine Arts credit.

**JROTC** – A student who successfully completes JROTC may receive a substitution of one semester of state required PE for each semester of the JROTC. A physical education credit and a physical education substitution credit cannot be earned during the same semester. However, this does not preclude receiving a PE credit and receiving a JROTC elective credit. Also, a student may not receive two substitutions credits during the same semester.

**Marching Band** – A student who successfully completes marching band during the **FALL** semester may receive a PE substitution of .5 credit of the state physical education requirements, up to 1 credit.

**Off-Campus PE** – The purpose of the Off-Campus Physical Education Program is to accommodate students who are making a serious effort to develop high-level capabilities and to allow those students to be involved in a program that provides training exceeding that offered in the school district. The student is taking this course for physical education credit and he/she may not be enrolled in athletics while participating in the Off-Campus Physical Education Program. A maximum of 4 credits can be earned towards state high school graduation requirements. A student interested in this program should contact his/her school counselor for the application, guidelines, and enrollment dates concerning off-campus physical education.

Off-campus physical education currently considers the following activities: **art skating, dance, equestrian, fencing, gymnastics, ice hockey, ice skating, lacrosse, martial arts, middle school golf, rock climbing, rowing, squash, swimming, tennis, track cycling and table tennis**. There is a fee for participation in the off-campus physical education program. The student must participate in his/her activity, **under professional supervision, a minimum of 10 hours each week for Category 2 (cannot leave campus) or a minimum of 15 hours for Category 1 (can leave campus one class period early) at one approved agency**. The student must participate in the sport at least **a minimum of four (4) days during the week (Monday through Friday) plus one (1) additional day** that may fall on either the weekend or during the week for a total of five (5) days per week.



## Advanced Classes Identified for No-Pass, No-Play Exemption

Texas Education Agency/University Interscholastic League Academic Requirements (No Pass, No Play)

A student who receives, at the end of any six weeks grading period, a grade below 70 in any academic class (other than an identified advanced class) may not participate in extracurricular activities for at least three school weeks. An ineligible student may practice or rehearse, however. The student regains eligibility when the principal and teachers determine that he or she has: (1) earned a passing grade (70 or above) in all academic classes and (2) completed the three school weeks of ineligibility.

All students are eligible during a school holiday of a full calendar week or more. When the bell rings to dismiss students for the December holidays, all students are eligible until classes resume in January. The same is true for the summer recess and spring break provided those breaks consist of at least a full calendar week.

The 80<sup>th</sup> Texas Legislative Session passed SB 1517 in May, 2007 which amends Section 33.081 of the Education Code restricting the courses that are now considered waivable. Senate Bill 1517 defines that the exemption **only “applies to an advanced placement or international baccalaureate course, or to an honors or dual credit course in the subject areas of English language arts, mathematics, science, social studies, economics, or a language other than English.”** Please see the newly defined list of waivable courses below.

### Middle School Waivable Courses

<b>English Language Arts</b> English Language Arts Grade 7 Honors English Language Arts Grade 8 Honors PACE 6, 7, 8	<b>Science</b> Science Grade 7 Honors Science Grade 8 Honors
<b>Mathematics</b> Math Grade 6 Honors Math Grade 7 Honors Algebra I Honors	<b>Languages Other than English</b> Spanish III Honors Spanish IV AP
<b>Social Studies</b> PACE 6, 7, 8	

### High School/Senior High School Waivable Courses

<b>Advanced Placement Courses</b> All	<b>International Baccalaureate Courses</b> All
<b>English Language Arts</b> English I Honors/IH/PreAP or IH English II Honors/IH/PreAP or IH English III Honors English IV Honors	<b>Science</b> Biology Honors/IH/PreAP Chemistry Honors/IH/PreAP Physics Honors I/IH/PreAP Scientific Research and Design Honors
<b>Mathematics</b> Algebra I Honors/PreAP or IH Algebra II Honors/PreAP or IH Geometry Honors/PreAP or IH Pre-Calculus Honors/PreAP or IH Pre-Calculus	<b>Social Studies</b> Sociology Honors World History Honors/IH/PreAP or IH World Geography Honors/IH/PreAP or IH
<b>Languages Other Than English</b> Chinese <ul style="list-style-type: none"> <li>▪ Chinese II Honors/PreAP</li> <li>▪ Chinese III Honors/PreAP</li> </ul> French <ul style="list-style-type: none"> <li>▪ French II Honors/IH/PreAP</li> <li>▪ French III Honors/IH/PreAP</li> <li>▪ French V Honors</li> </ul> German <ul style="list-style-type: none"> <li>▪ German II Honors/PreAP</li> <li>▪ German III Honors/PreAP</li> </ul> Latin <ul style="list-style-type: none"> <li>▪ Latin II Honors/PreAP</li> <li>▪ Latin III Honors/PreAP</li> </ul> Spanish <ul style="list-style-type: none"> <li>▪ Spanish II Honors/IH/PreAP</li> <li>▪ Spanish III Honors/IH/PreAP</li> </ul>	<b>Gifted and Talented</b> Humanities I English I GT Humanities II World History AP GT American Studies
	<b>Dual Credit</b> Any dual credit course in English, mathematics, science, social studies, economics, or a language other than English.

## Advanced Placement Program

### Courses for College Credit

#### What is AP?

The advanced placement (AP) Program of the College Board enables students to complete college-level studies at Plano East Senior High, Plano Senior High and Plano West High Schools. A limited number of Advanced Placement courses may be offered on the high school campuses. This “academic bridge” helps smooth the transition from high school to college. The primary goals of the AP Program are to enrich the secondary school experience of students ready to apply themselves to college-level courses and to provide the means by which colleges may grant credit or placement, or both, to students with satisfactory AP test scores.

#### Benefits of AP

The benefits of the AP Program extend beyond students receiving college credit, placement, or both for exam performance. AP encourages critical and creative thought and fine-tunes analytical skills. It stretches students’ reasoning ability. AP courses teach them how to manage their time while they learn how to deal with college-level work. The classes emphasize the development of independent study skills.

#### Enrolling in AP Classes

Students entering high school need to plan with their counselors to insure that all prerequisite courses are scheduled early enough to allow them to take the AP course(s) of their choice at the senior high level. Most AP courses are one hour in length, the exceptions being AP Studio Art, AP Biology and AP Chemistry which require two-hour blocks of time. All AP courses earn advanced placement grade points.

Students pay an AP Examination fee per test in early spring.

Highly qualified teachers who have received advanced training through AP workshops, conference and university coursework teach these courses.

#### Plano ISD offers the following AP courses:

Art History	Macroeconomics
Art – Two-Dimensional Design	Microeconomics
Art – Three-Dimensional Design	European History
Art – Drawing Portfolio	Government – Comparative
Biology	Government and Politics – U.S.
Chemistry	United State History
Physics B	World History
Physics C	Human Geography
Environmental Science	Psychology
Computer Science A	Spanish Language
Calculus AB	French Language
Calculus BC	German Language
Statistics	Latin – Vergil
English Language and Composition	Spanish Literature
English Literature and Composition	Chinese Language and Culture
Music Theory	

#### AP Exams

The examinations are structured to measure three areas – depth of knowledge, completeness of thought and synthesis of ideas. Approximately 1,200 institutions award credit based on the student’s AP examination scores. Exams are graded on a five-point scale with credit usually given for scores of 3 or higher. College credit is generally awarded upon a student’s enrollment, although some institutions award sophomore standing only after a student has completed satisfactory work on campus. The score requirement and number of college credit hours or placement credit awarded varies among universities and colleges. AP exams are offered in May.



## International Baccalaureate Program

The International Baccalaureate Program is a rigorous course of study designed to meet the needs of highly motivated secondary students and to promote international understanding. The effectiveness of the IB program is due not only to the depth of the individual courses, but also to the comprehensive nature of the program. Unlike other honors programs, the IB Program requires each student to take courses in six academic areas. To qualify for the International Baccalaureate Diploma, students must take examinations in six subject areas, participate in the Creativity, Action and Services (CAS) program, and write an extended essay during the 11<sup>th</sup> and 12<sup>th</sup> grade years.

The diploma candidate must also take a unique course known as Theory of Knowledge. In this course, students explore the connections and similarities between the various subjects, learn to think and apply interrelated concepts.

Many students earning the IB Diploma are awarded advanced college credit at prestigious universities around the world. Many highly competitive colleges and universities recognize the IB Diploma for admissions and/or advanced standing. Texas public universities award 24 credit hours for an IB diploma in which all tests have earned at least a grade of 4 (on a 1-7 scale). An increasing number of states are following suit by awarding significant credit for the IB diploma.

PISD students enter the International Honors Program at either Clark High School or Williams High School in the ninth-grade followed by the two-year IB Program at Plano East Senior High. IB students may also participate in the Advanced Placement (AP) Program in grades 11 and 12.

Certified as an IB school in July 1995, the Plano East program carefully screens students on the basis of academic potential. All students admitted to the International Honors and the IB programs are full diploma candidates.

### The IB Curriculum

Six subject groups comprise the core of the IB curriculum. The IB Diploma candidate is required to select one subject from each of the six areas.

Group 1: Language A	English
Group 2: Language B	French, Spanish
Group 3: Individuals and Societies	History, Economics
Group 4: Experimental Sciences	Biology, Chemistry, Physics, Environmental Systems
Group 5: Mathematics	Calculus, Mathematical Methods, Mathematical Studies
Group 6: Arts & Electives	Visual Arts, Computer Science, or a second group 3 or 4

At least three and not more than four of the six subjects are taken at the Higher Level (HL – two-year course), the others at the Standard Level (SL – one-year course). Each examined subject is graded on a scale of 1 (minimum) to 7 (maximum). The award of the Diploma requires a minimum total of 24 points.

### IB Diploma Requirements

To be eligible for the award of the IB Diploma at the conclusion of the senior year, all candidates, during the 11<sup>th</sup> and 12<sup>th</sup> grades, must:

- successfully complete prescribed course work and an examination from each of the above groups,
- submit an extended essay of 4000 words in one of the subjects of the IB curriculum,
- complete the Theory of Knowledge (TOK) course, and
- complete 150 Creativity, Action and Service (CAS) hours.

## **Admissions and Selection Process**

Students from throughout Plano ISD are eligible to apply for the International Honors programs at Clark High School and Williams High School and in the IB Program at Plano East Senior High School. Students must submit a completed application packet during the first semester of their eighth-grade year. Selection will be based on the following criteria:

- demonstrated excellence in academic performance,
- outstanding scores in standardized achievement tests,
- five teacher recommendations (from math, science, social studies, English and one other to be chosen by the student),
- a graded essay, and
- parental consent and support.

Orientation sessions and applications will be made available to interested eighth-graders and their parents in October of each year. (A timetable for submissions of the application, committee review, notification of committee results and registration will be available at the time same time.)

For more information on the International Baccalaureate Program at Plano East Senior High School, please access the following link to the website site: <http://k-12.pisd.edu/schools/planoeast/academics/ib/ib.html>.

## Admission To and Exit From Gifted and Talented Program

- I. Plano Independent School District offers educational opportunities for gifted and talented students in the four core areas. Plano's Academic and Creative Education (PACE) program serves grades 6 – 8 in either an English or History course (campus decision). Students enrolled in grades 9-10 receive services through the Humanities class, with additional services offered through Advanced Placement courses. Students enrolled in grades 11 – 12 receive services through the American Studies course, with additional services offered through Advanced Placement and International Baccalaureate courses.
- II. Procedure for Admission

All students new to PISD must follow the screening/selection procedures for possible program admission. PACE students who transfer within the district automatically continue program placement.

  - A. The referral form (available at school) is completed prior to the designated deadline. A student, parent, teacher, counselor, administrator or other professionals may make referrals.
  - B. Screening data is collected. Data may include the following:
    1. Ability test scores
    2. Achievement test scores
    3. Teacher recommendation
    4. Writing sample
    5. Additional parent information
    6. Grades
    7. Student portfolio
    8. Interview
  - C. Placement committee meets and considers all students who meet criteria.
  - D. Parent(s) of placed students give written permission for program participation.
- III. Procedure for Exit
  - A. Student progress is review and documented.
  - B. Conference(s) with student, parent(s) and professional are held.
  - C. The PACE Exit Form is completed and signed
  - D. The campus placement committee meets.

## Special Education Services

- I. Plano Independent School District offers special education services for students from 3 through 21. Children with vision and hearing impairments may begin services at birth.
- II. Procedures for Admission/Review/Dismissal/Transfer
  - A. New referrals
    1. Parents, school personnel or community agencies may make referrals for special education evaluations.
    2. All referrals are directed to the Campus Monitoring and Intervention Team (CMIT)
    3. The Campus Monitoring and Intervention Team collects information from teachers and parents.
    4. The Campus Monitoring and Intervention Team requests a Full Individual Evaluation (FIE) if there is a suspicion of a disability and an educational need for special education services.
    5. A meeting may be held prior to the evaluation for the purpose of defining the specific areas to be assessed.
    6. Parents provide written consent for the evaluation. The evaluation must be completed within 60 calendar days from the date the district receives written consent from the parent.
    7. The Admission, Review, Dismissal / Individualized Education Program (ARD/IEP) Committee, which includes parents, will meet to consider eligibility, goals, objectives and placement in special education.
    8. Parents provide written consent for the initial provision of special education services if eligibility is established and services are recommended.
  - B. Transfers from special education programs outside the district
    1. Parents/Students provide campus personnel with documentation of prior special education services at the time of registration.
    2. Campus staff confirms the provision of prior special education services
    3. Services begin immediately. Within 30 school days, any changes determined necessary in the current IEP must be addressed by the ARD/IEP Committee.
  - C. Continuation in the Program
    1. ARD/IEP Committee conducts an annual review of student progress and placement.
    2. Parents and other committee members agree upon student's continuation of services or dismissal from special education based on current performance data and demonstrated need.
  - D. Grading Procedures

Credit for courses may be earned only if the student receives a grade that is the equivalent of 70 on a scale of 100, based upon the essential knowledge and skills for each course. The ARD/IEP committee may determine that a student receives modified course content. In this case, grades should reflect progress toward completion of IEP goals and objectives as well as demonstrated mastery of course content that is the equivalent of 70 on a scale of 100.

### Graduation Requirements (**§89.1070 Commissioner/SBOE Rules**)

(a) Graduation with a regular high school diploma under subsection (b) or (d) of this section terminates a student's eligibility for special education services under this subchapter and Part B of the Individuals with Disabilities Education Act (IDEA), 20 United States Code, §§1400 et seq. In addition, as provided in Texas Education Code (TEC), §42.003(a), graduation with a regular high school diploma under subsection (b) or (d) of this section terminates a student's entitlement to the benefits of the Foundation School Program.

(b) A student receiving special education services may graduate and be awarded a regular high school diploma if:

- (1) the student has satisfactorily completed the state's or district's (whichever is greater) minimum curriculum and credit requirements for graduation (under the recommended or distinguished achievement high school programs in Chapter 74 of this title (relating to Curriculum Requirements))

applicable to students in general education, including satisfactory performance on the exit level assessment instrument; or

(2) the student has satisfactorily completed the state's or district's (whichever is greater) minimum curriculum and credit requirements for graduation (under the minimum high school program in Chapter 74 of this title) applicable to students in general education, including participation in required state assessments. The student's admission, review, and dismissal (ARD) committee shall determine whether satisfactory performance on a required state assessment shall also be required for graduation.

(c) A student receiving special education services may also graduate and receive a regular high school diploma when the student's ARD committee has determined that the student has successfully completed:

(1) the student's individualized education program (IEP);

(2) one of the following conditions, consistent with the student's IEP:

(A) full-time employment, based on the student's abilities and local employment opportunities, in addition to sufficient self-help skills to enable the student to maintain the employment without direct and ongoing educational support of the local school district;

(B) demonstrated mastery of specific employability skills and self-help skills which do not require direct ongoing educational support of the local school district; or

(C) access to services which are not within the legal responsibility of public education, or employment or educational options for which the student has been prepared by the academic program;

(3) the state's or district's (whichever is greater) minimum credit requirements for students without disabilities; and

(4) the state's or district's minimum curriculum requirements to the extent possible with modifications/substitutions only when it is determined necessary by the ARD committee for the student to receive an appropriate education.

(d) A student receiving special education services may also graduate and receive a regular high school diploma upon the ARD committee determining that the student no longer meets age eligibility requirements and has completed the requirements specified in the IEP.

(e) All students graduating under this section shall be provided with a summary of academic achievement and functional performance as described in 34 Code of Federal Regulations (CFR), §300.305(e)(3). This summary shall consider, as appropriate, the views of the parent and student and written recommendations from adult service agencies on how to assist the student in meeting postsecondary goals. An evaluation as required by 34 CFR, §300.305(e)(1), shall be included as part of the summary for a student graduating under subsection (c) of this section.

(f) Students who participate in graduation ceremonies but who are not graduating under subsection (c) of this section and who will remain in school to complete their education do not have to be evaluated in accordance with subsection (e) of this section.

(g) Employability and self-help skills referenced under subsection (c) of this section are those skills directly related to the preparation of students for employment, including general skills necessary to obtain or retain employment.

(h) For students who receive a diploma according to subsection (c) of this section, the ARD committee shall determine needed educational services upon the request of the student or parent to resume services, as long as the student meets the age eligibility requirements.



Plano ISD  
Class on Your Time  
High School Courses through Independent Internet Study  
<http://planoisdeschool.net>

**Plano ISD offers students GRADES 9 – 12 a flexible learning option.**

**Website and Enrollment Procedures**

The Plano ISD eSchool website can be accessed at [www.planoisdeschool.net](http://www.planoisdeschool.net). Course listing and descriptions can be found on the website. Students will enroll online through the Plano ISD eSchool website. Currently enrolled Plano ISD students must follow the approval process through their campus counselor.

**Credit Reporting for Plano ISD Students**

Credit reporting for online courses will follow existing correspondence course policies. Plano ISD students must follow similar course selection and approval procedures through their counselor.

- Students will have a minimum of six weeks and a maximum of 18 weeks to complete courses.
- Students currently enrolled in Plano ISD will be allowed to take two eSchool courses at one time.
- Students currently enrolled in Plano ISD may earn a total of THREE credits through correspondence and/or off-campus online courses.
- Grades earned in eSchool courses will not be used in computing class ranking. [Reference Plano ISD School Board Policy EHDE Local]

**Tuition**

Payment options:

1. Online through PISD eSchool website. (VISA, MasterCard, American Express)
2. Through a cashier's check or money order mailed to: (no personal checks accepted)  
Plano ISD  
Student Services/eSchool  
3540 E. 14<sup>th</sup> Street  
Plano, TX 75074
3. Reimbursement guidelines: Within 15 days of the online registration, students may cancel enrollment and receive a reimbursement, as per enrollment agreement. A fee of \$50.00 will be retained for administrative expenses.
4. Some courses may require the purchase of additional materials, such as textbooks, not included in the tuition fee.

**Special Offer!**

**Plano ISD eSchool: Expanded Course Offerings!**

In an effort to meet our students' needs, Plano ISD eSchool has developed twenty-two (22) online courses locally. We are able to offer these courses at a reduced tuition cost. The tuition for the following courses is \$240 to \$270 per semester.

English 1, Semester 1*	Algebra 1, Semester 1*	World Geography, Semester 1
English 1, Semester 2*	Algebra 1, Semester 2*	World Geography, Semester 2
English 2, Semester 1*	Economics	United States Government
English 2, Semester 2*	Health	PE Foundations
English 3, Semester 1	World History, Semester 1	BIM, Semester 1
English 3, Semester 2	World History, Semester 2	BIM Semester 2
English 4, Semester 1	US History, Semester 1	
English 4, Semester 2	US History, Semester 2	

\* Courses offered to Plano ISD students for credit recovery.

**Tuition for the courses listed below is \$310 per semester course.**

**Piano ISD eSchool Courses Available at this Time**

*Refer to website for updated course offerings.*

Courses for Graduation Credit

Algebra II  
Geometry I  
Pre-calculus  
Chemistry I  
Physics I  
Psychology

Career Planning  
Spanish I and Spanish II\*  
(\*credit recovery)

Courses for Non-Credit/Enhancement

Pre-Algebra  
Oceanography  
Study Skills

**Students interested in eSchool: Please read and note.**

- **Seniors:**

In order to ensure an eSchool course credit for graduation,

- Students must register for a course before the mid-point of the semester.
- Students must complete all course work 3 weeks before the end of the semester.
- Please check with the eSchool office or your counselor for the specific dates.

- **Sophomores – Juniors:**

In order to take a course on the senior high campus, **students must have successfully completed all prerequisite courses**, including eSchool courses, before the beginning of the school year.

- There are a limited number of “seats” in each eSchool course. Registration for each course closes when that course is full and opens again as places become available. Therefore, registration for an eSchool course may be open or closed at any time.
- Before you register for a course, please make sure that you read and understand the eSchool Guidelines and Policies. Adherence to these guidelines, for example those concerning academic integrity, will be expected and consequences enforced.

**When you register for an eSchool course, please make sure that you provide the email address that you intend to use throughout your course. That email address must be an active, functional account that will handle large file attachments.**

If you have any questions or concerns, please contact the eSchool office at:

(469) 752-8894

eschool@pisd.edu

DESCRIPTIONS OF  
HIGH SCHOOL /  
SENIOR HIGH SCHOOL  
COURSES OFFERED  
FOR PLANO ISD  
STUDENTS

Teamwork for Excellence



P L A N O  
Independent School District



## ATHLETICS

The Plano Independent School District offers a wide range of University Interscholastic League competitive sports from which the student may choose. One credit of physical education credit is required for graduation by the state of Texas; however, a student may earn up to 4 PE credits toward graduation. The following is a list of courses from which both boys and girls may select, depending upon their particular interests and abilities.

**SEE YOUR SCHOOL COUNSELOR FOR CLARIFICATION REGARDING CREDITS.**

Plano ISD Course No.	Subject	
30400F, 30410S, 30410E	Baseball (Boys)	May be offered after school at Grade 9
304201, 30420E	Basketball (Boys)	
303001, 30300E	Basketball (Girls)	
30430F, 30430E	Cross Country (Boys)	Fall Semester on Senior High Campuses Only
30310F, 30310E	Cross Country (Girls)	Fall Semester on Senior High Campuses Only
305101, 30510E	Diving (Co Ed)*	Senior High Campuses Only
304401, 30440E	Football (Boys)	
305201, 30520E	Golf (Co Ed)*	Practice Held at Local Designated Golf Courses
304501, 30450E	Soccer (Boys)	Senior High Campuses Only
303201, 30320E	Soccer (Girls)	Senior High Campuses Only
30330F, 30340S, 30340E	Softball (Girls)	Senior High Campuses Only
305301, 30530E	Swimming (Co Ed)*	Senior High Campuses Only
305401, 30540E	Tennis (Co Ed)	
30460S, 30460E	Track (Boys)	Spring Semester on Senior High Campuses Only
30350S, 30350E	Track (Girls)	Spring Semester on Senior High Campuses Only
303601, 30360E	Volleyball (Girls)	
304701, 30470E	Wrestling (Boys)	
304701, 30470E	Wrestling (Girls)	

\* Will require personal transportation.

**Students can earn up to 4 credits of physical education over their high school career in any specific sport or any combination of sports taken during the school day. The sport must be reflected on their class schedule.**

## **CHEERLEADING / DRILL TEAM**

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Cheerleading and drill team tryouts are held in the spring at the individual school campuses. The Fundamentals of Drill Team course is a non-competitive course open to all who desire to enroll. Students interested in this program should contact the program sponsor for specific details and guidelines.

For district guidelines regarding Cheerleading and Drill Team, see the following PISD websites:

<http://www.pisd.edu/common/documents/CheerleaderGuidelinesJune2008.pdf>

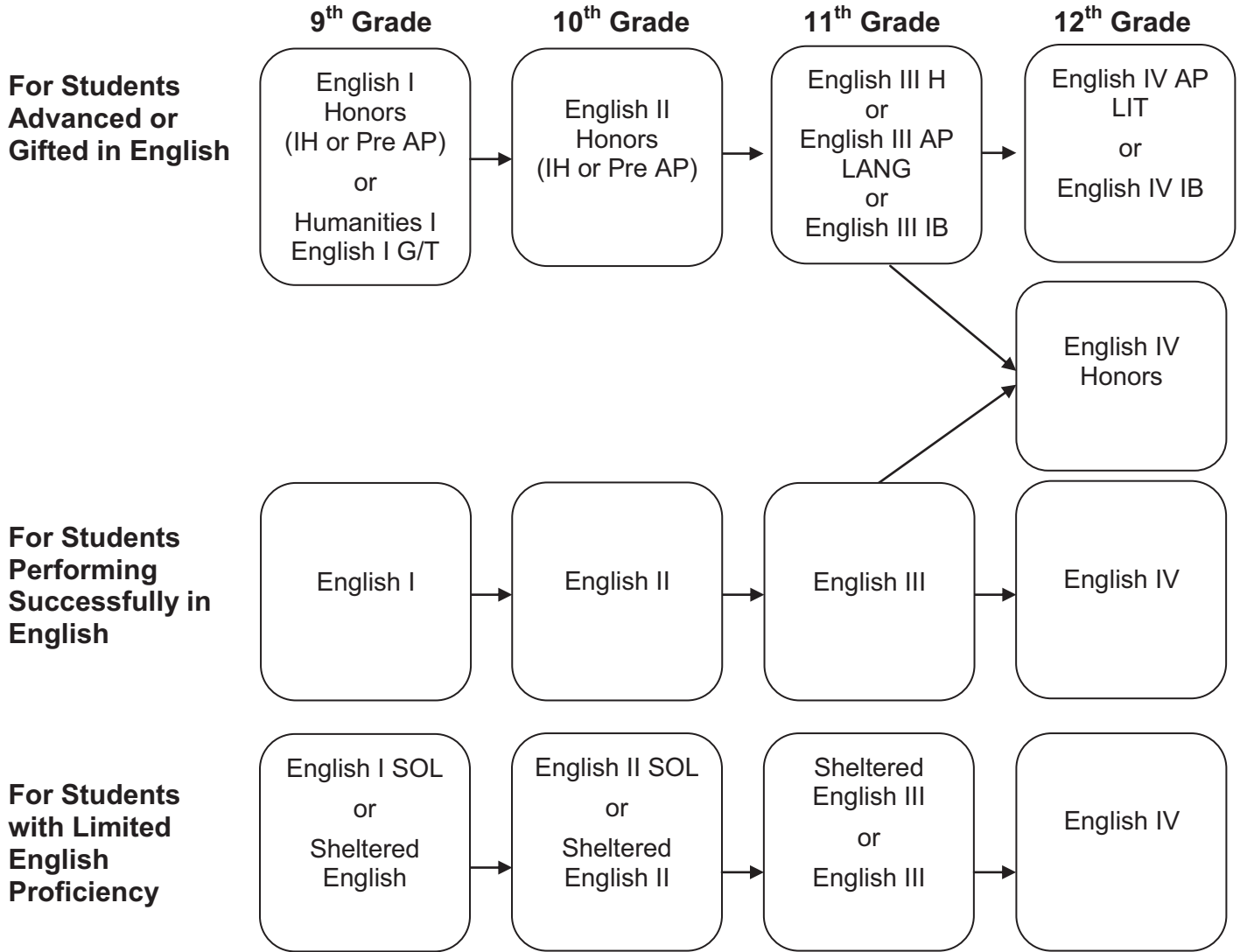
<http://www.pisd.edu/common/documents/DrillTeamOper-TryoutGuidelinesrevJune08.pdf>

**SEE YOUR SCHOOL COUNSELOR FOR CLARIFICATION REGARDING CREDITS.**

<b>Plano ISD Subject</b>	<b>Grades 9 – 12</b>	<b>Credits</b>
Cheerleading	9 – 12	.5 – 1
Fundamentals of Drill Team (Body Mechanics)	9 – 10	.5 – 1
Drill Team	10 – 12	.5 – 1

# English Language Arts

## ESOL (English for Speakers of Other Languages)



### Courses Offered:

#### 9<sup>th</sup> and 10<sup>th</sup> Grades

English I  
 English I SOL  
 English I H / Pre AP  
 English I H / IH  
 Humanities I (Eng. I PreAP credit)  
 Humanities II (AP World Hist. credit)  
 English II  
 English II SOL  
 English II H / Pre AP  
 English II H / IH

#### 11<sup>th</sup> and 12<sup>th</sup> Grades

American Studies  
 English III  
 English III H  
 English III / AP Language  
 English III / IB  
 English IV  
 English IV / H  
 English IV / AP Literature  
 English IV / IB

### Graduation Requirements:

1 credit English I  
 1 credit English II  
 1 credit English III  
 1 credit English IV

## **ENGLISH LANGUAGE ARTS**

<b>Plano ISD Course No.</b>	<b>Subject</b>	<b>Grade</b>	<b>Credits</b>
101001	English I	9	1
101031	English I H/PreAP	9	1
101061	English I IH	9	1
101041	Humanities I English I GT (Pre-AP English I)	9	1
252041	Humanities II World History AP GT (AP World History)	10	1
051001	English I SOL (Speakers of Other Languages)	9 – 10	1
052001	English II SOL (Speakers of Other Languages)	10	1
10127B	Technical Writing: Research Study Skills	9 – 10	.5
102001	English II	10	1
102031	English II H/PreAP	10	1
102061	English II IH	10	1
103001	English III	11	1
103031	English III H	11	1
103051	English III AP LANG	11	1
S14251	American Studies (English III AP LANG and AP U.S. History)	11	2
103061	English III IB	11	1
104001	English IV	12	1
104031	English IV H	12	1
104051	English IV AP LIT	12	1
104061	English IV IB	12	1
10310B	Creative Writing	9 – 12	.5
10330B	World of Ideas	11 – 12	.5
10370B	Bible Literacy	11 – 12	.5

<p><b>101001 English I</b>  Grade Placement: 9  Prerequisite: None  Credit: 1  <i>What's next?</i> English II or English II – H/IH/PreAP</p>	<p>This course is designed to place emphasis on fundamental language skills: reading, writing, speaking, listening, viewing and presenting. An emphasis on vocabulary and composition skills will be an on-going part of the program. The course includes studies of various literary genres: short story, poetry, novel, drama and non-fiction. The development of critical reading and critical writing skills is a major emphasis of the course.</p>
<p><b>101031 English I – H/PreAP</b>  <b>101061 English I – IH</b>  Grade Placement: 9  Prerequisite: Teacher recommendation encouraged  Credit: 1  <i>What's next?</i> English II H/IH/PreAP or English II</p>	<p>Students will participate in a general review of grammar with emphasis upon usage. Strong attention will be given to the development of composition and critical reading skills. Vocabulary development and outside reading will complement each credit of study. All literature study will be supported by composition. Literary emphasis includes the short story, novel, drama and poetry.</p>
<p><b>101041 Humanities I English I GT (Pre-AP English I)</b>  Grade Placement: 9  Prerequisite: Identification / Selection as Gifted  Credit: 1</p>	<p>Humanities I English I GT and Humanities II World History AP GT are courses that provide gifted students with opportunities not available through regular or advanced classes. The courses combine Pre-AP English I with AP World History in a two-year interdisciplinary spiral. The basic content is a historical study of the commonalities of the fine arts, including literature, the visual arts, architecture, and music. Humanities I focuses on the period up to the Renaissance; Humanities II examines the period from the Renaissance to modern times. Students will learn and practice the craft of writing through various products, including AP style writing. Literature from a variety of world traditions will also be a key focus. Ninth and tenth grade students will sit in the same class while earning credit in separate courses; ninth graders will earn Pre-AP English I credit while tenth graders earn AP World History credit. At the conclusion of Humanities II, students can sit for the AP World History to possibly earn college credit. <b><u>Humanities does NOT fulfill the fine arts requirement for graduation and is not recognized as a fine arts course by TEA.</u></b></p>
<p><b>252041 Humanities II World History AP GT (AP World History)</b>  Grade Placement: 10  Prerequisite: Identification / Selection as Gifted  Credit: 1  <i>What's next?</i> American Studies; Advanced Placement and International Baccalaureate courses</p>	<p>English I SOL is a course designed to provide instruction in the English I TEKS for beginner and intermediate level limited English proficient (LEP) students enrolled in ESL. It also works to build English language proficiency. Students are placed in this course according to their current level of English proficiency. <b><u>This course does meet the graduation requirement for English I</u></b>, so students who take this course <b>may not later take regular English I for credit</b>. It should be noted that some colleges and universities might not honor this course when considering a student's application for admission. <b><u>This class is for students whose language proficiency is beginning or intermediate.</u></b></p>
<p><b>051001 English I for Speakers of Other Languages</b>  Grade Placement: 9 - 10  Prerequisite: Placement in ESOL program and student must have beginning or intermediate proficiency English  Credit: 1  <i>What's next?</i> English II or English II for Speakers of Other Languages</p>	<p>English I SOL is a course designed to provide instruction in the English I TEKS for beginner and intermediate level limited English proficient (LEP) students enrolled in ESL. It also works to build English language proficiency. Students are placed in this course according to their current level of English proficiency. <b><u>This course does meet the graduation requirement for English I</u></b>, so students who take this course <b>may not later take regular English I for credit</b>. It should be noted that some colleges and universities might not honor this course when considering a student's application for admission. <b><u>This class is for students whose language proficiency is beginning or intermediate.</u></b></p>

<p><b>052001 English II for Speakers of Other Languages</b></p> <p>Grade Placement: 10  Prerequisite: Credit for English I or English I SOL and student must have beginning or intermediate proficiency English  Credit: 1  <i>What's next?</i> English III or English III - H</p>	<p>English II SOL is a course designed to provide instruction in the English II TEKS for beginner and intermediate level limited English proficient (LEP) students enrolled in ESL. It also works to build English language proficiency. Students are placed in this course according to their current level of English proficiency. This course does meet the graduation requirement for English II, so students who take this course <b>may not later take regular English II for credit.</b> It should be noted that some colleges and universities might not honor this course when considering a student's application for admission. <b><u>This class is for students whose language proficiency is beginning or intermediate.</u></b></p>
<p><b>10127B Technical Writing: Research Study Skills</b></p> <p>Grade Placement: 9 - 10  Prerequisite: None  Credit: .5</p>	<p>This one-semester course focuses on how a student learns best. Strong attention will be focused on text structures, note taking, study skills, test-taking skills, and research skills. The curriculum emphasizes using both traditional and on-line resources for research and technical writing. Students will be prepared for business and university research tasks. <b>This course may not be offered on all campuses.</b></p>
<p><b>102001 English II</b></p> <p>Grade Placement: 10  Prerequisite: English (1 credit)  Credit: 1  <i>What's next?</i> English III or English III H</p>	<p>This course includes a review of language skills, the teaching of intermediate composition skills, and an examination of literary themes and forms. The course includes study of various literary genres, short story, poetry, drama, non-fiction, and the novel. Emphasis in both semesters will be placed on vocabulary development, composition skills, critical reading and critical writing skills.</p>
<p><b>102031 English II – H/PreAP</b>  <b>102061 English II – IH</b></p> <p>Grade Placement: 10  Prerequisite: Teacher recommendation encouraged and English (1 credit)  Credit: 1  <i>What's next?</i> English III or English III H/AP/IB</p>	<p>Students will review writing skills and extend their study of vocabulary, the short story, novel, poetry, and drama. Strong attention will be given to the development of composition and critical reading skills. Composition will support all literature study. Outside reading assignments will continue for both PreAP and IH students. New areas of emphasis will be the development of research skills.</p>
<p><b>103001 English III</b></p> <p>Grade Placement: 11  Prerequisite: English (2 credits)  Credit: 1  <i>What's next?</i> English IV or English IV H</p>	<p>This course continues emphasis on composition skills, vocabulary skills and literary analysis. The student will explore English as a developing and changing language. Students will study the development of American Literature and important American authors. All literary study is supported by composition. Students will also be engaged in writing the research paper.</p>
<p><b>103031 English III - Honors</b></p> <p>Grade Placement: 11  Prerequisite: English (2 credits)  Credit: 1  <i>What's next?</i> English IV or English IV H or English IV AP/IB</p>	<p>Reading requirements surpass those of English III and demand insightful analysis. This instruction provides the students with sophisticated techniques for success in writing on a college level. Students will also be engaged in writing the research paper. This course in combination with English IV Honors prepares the student to take the AP language exam.</p>

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**103051 English III – AP LANG**  
**103061 English III – IB** (See  
*International*  
*Baccalaureate Program*  
*for description*)

Grade Placement: 11

Prerequisite: Teacher recommendation and English (2 credits)

Credit: 1

*What's next?* English IV or English IV Honors or English IV AP/IB

This course is designed for the serious student of English who plans to take English IV - Honors - Advanced Placement or IB in his/her senior year. Selection for this course will be based upon test scores, teacher recommendation, and performance in English II - Honors. The curriculum includes a review of the conventions of English, composition, and research skills with a continued emphasis on outside reading and vocabulary building. Strong attention will be given to the development of composition and critical reading skills. Literary emphasis is on the chronological development of American culture and ideas. This course prepares the student to take the AP language/IB exam. Summer reading is required.

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**S14251 American Studies**  
**(English III AP LANG**  
**and AP U.S. History)**

Grade Placement: 11

Prerequisite: None

Credit: 2

*What's next?* The Human Experience: Culture, Media and Perception

American Studies combines AP US History and English III AP Language to create a daily two hour cultural experience enabling students to simultaneously explore the connections between literature and history. Students will explore the history of the United States with special emphasis placed on the study of rhetorical styles and structures of important historical documents and readings. This course focuses on the cultural accomplishments as manifested in art, architecture, literature, music, and other visual media. Students will learn and practice the craft of writing through various products, specifically focused on the essay formats necessary for success on both the AP US History and AP English Language exams. US Literature of all genres will be incorporated into the curriculum within the structure of the historical study, and used as a method of enhancing the depiction of historical time periods. At the culmination of the class, students can take both the AP US History and the AP English Language exams in the hopes of earning college credit.

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**104001 English IV**

Grade Placement: 12

Prerequisite: English (3 credits)

Credit: 1

This course includes a final review of all language skills together with a study of the ideas and culture presented in English literature. Students will receive continued composition practice including the critical literary paper. They will continue to learn critical reading strategies.

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**104031 English IV - Honors**

Grade Placement: 12

Prerequisite: English (3 credits)

Credit: 1

Reading requirements surpass those of English IV and demand insightful analysis. This instruction provides the students with sophisticated techniques for success in writing on a college level. This course in combination with English III Honors prepares the student to take the AP language exam.

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**104051 English IV – AP LIT**  
**104061 English IV – IB** (See  
*International*  
*Baccalaureate Program*  
*for description*)

Grade Placement: 12

Prerequisite: Teacher recommendation and English (3 credits)

Credit: 1

This course is designed to give the serious student college level studies in English. A close study of a relatively small number of works in class will be supplemented with wide outside reading in world literature. Additionally, emphasis will be placed upon clear, analytical writing. This course prepares the student to take the AP literature/IB exam. Summer reading is required.

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**10310B Creative Writing**

Grade Placement: 9 – 12

Prerequisite: None

Credit: .5

In this class, students will have the opportunity to read contemporary poetry, fiction, drama, and non-fiction and to use these as springboards for their own creative work. Unlike the literature courses, the emphasis will be placed upon the students' work and not upon the selections read as models. Students will be encouraged to submit their work to the campus literary magazine.

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**10330B World of Ideas**

Grade Placement: 11 – 12

Prerequisite: None

Credit: .5

This course is a combination philosophy and humanities class similar to the Theory of Knowledge course offered through the IB program. Units include 1) Mythology and Religion, 2) Philosophy and Scientific Enlightenment, 3) Human Nature and the Human Condition, 4) morality and ethics, e.g., individual v. society and natural v. human law, and 5) The Way of the Artist i.e., philosophy of art, art and aesthetics, beauty, censorship, history of art, history of music and passion as a motivation for art.

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**10370B Bible Literacy**

Grade Placement: 11 – 12

Prerequisite: None

Credit: .5

This course is an elective course on the Hebrew Scriptures (Old Testament) and the New Testament which teaches knowledge of Biblical content, characters, poetry, and narratives that impact understanding of contemporary society and culture, including literature, art, music, and public policy. The course follows federal and state laws and guidelines in maintaining religious neutrality and accommodating the diverse religious views and perspectives of students.



## **FINE ARTS**

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Fine Arts Education includes the following areas: Art Education, Music Education, and Theater Arts and Dance Education. Students must take a full-year of the same course to meet the one credit of Fine Arts high school graduation requirement under the Minimum, Recommended and Distinguished Achievement Programs.

### **ART EDUCATION**

<b>Plano ISD Course No.</b>	<b>SUBJECT</b>	<b>Grade</b>	<b>Credits</b>
451001	Art I	9 – 12	1
451031	Art I – H/PreAP	9 – 10	1
452081	Art Sculpture	9 – 10	1
452061	Art Sculpture H/PreAP	10	1
452001	Art II	10 – 12	1
452031	Art II – H/PreAP	10	1
453001	Art III	11 – 12	1
456351	Art H/AP Two-Dimensional Design (2 hour block)	11 – 12	2
456371	Art H/AP Three-Dimensional Design (2 hour block)	11 – 12	2
454051	Art H/AP Drawing Portfolio (2 hour block)	11 – 12	2
454071	Art History AP	11 – 12	1

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#### **451001 Art I**

Grade Placement: 9 – 12

Prerequisite: Semesters taken in sequence.

Credit: 1

Art I allows the student the opportunity to learn how to work with a large variety of materials. The first semester of Art I will introduce the student to drawing and color study using the elements and principles of design. Drawing will consist of sequential learning steps with emphasis on developing shading skills. Color studies will include but not be restricted to using water base paint. The second semester, which builds on first semester skills, will include the study of painting, printmaking, sculpture, and ceramics. Printmaking will involve relief printing; sculpture will include additive construction; ceramics will consist of hand building methods of pinch, coil, and slab. Computer-manipulated works are incorporated into the curriculum. The approximate supply cost is \$25.00. **Art I must be scheduled for both semesters.**

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**451031 Art I – H/PreAP**

Grade Placement: 9 – 10

Prerequisite: Recommendation of art teacher.

Credit: 1

*What's next?* Art II or PreAP Art II

Pre-Advanced Placement Art I allows the student the opportunity to learn how to work with a large variety of materials. The Pre-Advanced Placement Art I curriculum follows the College Board directives of the Advanced Placement Studio requirements. Pre-AP Art I provides learning opportunities for 9th and 10th grade students beyond those available in the regular Art I class by extending the state essential knowledge and skills through drawing and color study (first semester). Students also learn what will be expected of them for the AP Portfolio Examination. The second semester focuses on painting, printmaking, sculpture, and ceramics. Computer-manipulated works are incorporated into the curriculum. The approximate supply cost is \$25.00.

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**452081 Art Sculpture**

Grade Placement: 9 – 10

Prerequisite: None

Credit: 1

*What's next?* Art I or Art Sculpture II H/PreAP or Art H/AP Three-Dimensional Portfolio

Students are not required to have Art I prior to taking this course. The course will introduce the students to additive sculpture, subtractive sculpture, and ceramics. If a student wants to continue in art, he/she must take Art I unless he/she is accepted into Art Sculpture H/Pre AP or Art H/AP Three-Dimensional Design through a portfolio review. Computer-manipulated works are incorporated into the curriculum. The approximate student supply cost is \$25.00. **This is a two-semester course in which 9th or 10th grade students must take both semesters to meet the one year fine arts requirement.**

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**452061 Art Sculpture II H/PreAP**

Grade Placement: 10

Prerequisite: Art Sculpture or Art I, recommendation of art teacher

Credit: 1

*What's next?* Art H/AP Three-Dimensional Design (2 hour block)

Art Sculpture H/PreAP allows the students to work with a large variety of material to create three-dimensional works of art. The Art Sculpture H/PreAP curriculum is designed to spiral and expand the Art Sculpture curriculum. The course work follows the College Board outlines for Advanced Placement Portfolios. Students will apply the elements and principles of art in all composition to a greater proficiency than other Art Sculpture students. The approximate supply cost is \$25.00.

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**452001 Art II**

Grade Placement: 10 - 12

Prerequisite: Art I (1 credit) Semesters taken in sequence.

Credit: 1

*What's next?* Art III, Art H/AP Two-Dimensional Portfolio, Art H/AP Three-Dimensional Portfolio, Art H/AP Drawing Portfolio, or Art History AP

Art II allows the student the opportunity to work with a large variety of materials. The first semester of Art II is designed to continue a sequential study of drawing and colored media. Formal compositions will be completed in realistic, abstract, and non-objective styles. Second semester, which builds on first semester skills, will include painting, printmaking techniques, and three-dimensional studies. Students will build upon skills learned in Art I. Computer-manipulated works are incorporated into the curriculum. The approximate student supply cost is \$25.00.

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**452031 Art II H/PreAP**

Grade Placement: 10

Prerequisite: Recommendation of Art I teacher and/or portfolio.

Successful completion of Art I or Art H/PreAP

Credit: 1

*What's next?* Art III, Art H/AP Two-Dimensional Portfolio, Art H/AP Three-Dimensional Portfolio, Art H/AP Drawing Portfolio, Art History AP

Art II H/Pre AP allows the student to work with a large variety of materials. The Pre-AP Art II curriculum is designed to spiral and expand the Art I or Pre-AP Art I curriculum. The Pre-AP Art II course work follows College Board outlines for Advanced Placement Studio Portfolios. Students will apply the elements and principles of art in all compositions to a greater proficiency than other Art II students as well as connect art history and criticism to those productions. Students will develop skills in drawing and color theory application beyond the average Art II student as they continue reviewing requirements of the AP examination. Second semester extends learning through higher expectations in painting, printmaking, sculpture, and ceramics. Pre-AP Art II is an honors credit class recommended for students seriously looking at a visual art career. Computer-manipulated works are incorporated into the curriculum. The approximate student supply cost is \$25.00.

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**453001 Art III**

Grade Placement: 11 - 12

Prerequisite: Art I (1 credit) and Art II (1 credit)

Credit: 1

*What's next?* Art H/AP Two-Dimensional Portfolio, Art H/AP Three-Dimensional Portfolio, Art H/AP Drawing Portfolio, Art History AP

First Semester Art III will provide in-depth compositional studies in drawing and painting. Drawing studies will emphasize advanced life drawing techniques. Painting emphasis may be on techniques of watercolor and mixed media, plus relating art history to periods of drawing and painting. A variety of techniques will be introduced. Second semester may cover advanced printmaking, crafts, sculpture, and ceramics. Ceramics and sculpture will emphasize complex combinations of hand built techniques. Computer-manipulated works are incorporated into the curriculum. The approximate student supply cost is \$25.00.

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**456351 Art H/AP Two-Dimensional Design (2-hour block)**

Grade Placement: 11 – 12

Prerequisite: Art I & II, portfolio, and teacher recommendation

Credits: 2

*What's next?* Art H/AP Drawing Portfolio, Art H/AP Three-Dimensional Portfolio, Art History AP

Art H/AP Two-Dimensional Design is an advanced studio course for the college-bound and career-oriented student. It is designed for talented art students who wish to pursue college level studies while in high school. Emphasis will be on advanced drawing and painting styles, 2-D design, and color study. Computer-manipulated works are incorporated into the curriculum. Students will compile portfolios that fulfill current College Board requirements. This is a two-hour class. Students receive two credits, 1 AP credit and 1 honors credit. This course prepares the student to take the AP exam. The approximate student supply cost is \$125.00.

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**456371 Art H/AP Three-Dimensional Design (2-hour block)**

Grade Placement: 11 - 12

Prerequisite: Art I or Art Sculpture or Art Sculpture II H/PreAP, portfolio, and teacher recommendation

Credits: 2

*What's next?* Art H/AP Two-Dimensional Portfolio, Art H/AP Drawing Portfolio, Art History AP

Art H/AP Three-Dimensional Design is an advanced studio course for the college-bound and career-oriented student. It is designed for talented art students who wish to pursue college level studies while in high school. Emphasis will be on advanced sculpture, ceramics, and three-dimensional design. Students will compile portfolios that fulfill current College Board requirements. This is a two-hour class. Students receive two credits, 1 AP credit and 1 honors credit. This course prepares the student to take the AP exam. The approximate student supply cost is \$125.00.

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**454051 Art H/AP Drawing Portfolio (2-hour block)**

Grade Placement: 11-12

Prerequisite: Art I & II, portfolio, and teacher recommendation

Credits: 2

*What's next?* Art H/AP Two-Dimensional Portfolio, Art H/AP Three-Dimensional Portfolio, Art History AP

Art H/AP Drawing Portfolio, a two-hour class, is an advanced studio course for the college-bound and career-oriented student. It is designed for talented art students who wish to pursue college level studies while in high school. Emphasis will be on a variety of 2-D works like drawings, painting, printmaking, etc. Students will compile portfolios that fulfill the current College Board requirements. This is a two-hour class. Students receive two credits, 1 AP credit and 1 honors credit. This course prepares the student to take the AP exam. The supply cost is approximately \$125.00.

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**454071 Art History AP**

Grade Placement: 11-12

Prerequisite: None

Credit: 1

The aim of the course is to introduce students to the rich traditions of western and non-European architecture, sculpture, painting and other art forms through factual knowledge and the skillful use of principles of aesthetics and comparative criticism. Students will learn how to respond to works of art with intelligence and sensitivity, examining the major forms of artistic expression of the past and of distant cultures as well as those of their own time and environment. Electronic generated projects are incorporated into the curriculum. Students may earn college credit by passing an exam written by the College Board. This course prepares the student to take the AP Art History exam. The approximate student supply cost is \$25.00.

## CAREER & TECHNICAL EDUCATION – FINE ARTS CREDIT

Plano ISD Course No.	Subject	Grade	Credits
551501	Principles and Elements of Floral Design	11 – 12	1

### **551501 Principles and Elements of Floral Design**

Grade Placement: 11 – 12

Prerequisite: None

Credit: 1

This is an activity-based course which prepares the student to develop competencies in flower classification and identification, geometric and specialized floral designs, identification and classification of plants, interior landscape development, and the use of artistic elements in personal designs. Students will learn business practices as they relate to the floral industry. Client relations and service contracts are an important component of this class. Students are given the opportunity to develop leadership skills through the FFA organization. **Successful completion of both semesters of this course will satisfy the Fine Arts (1.0) credit required for graduation. This course provides instruction and training necessary for the Texas State Florist's Certification.**

## DANCE EDUCATION

Plano ISD Course No.	Subject	Grade	Credits
451871	Dance I	9 – 12	1
452871	Dance II	10 – 12	1
453871	Dance III	11 – 12	1
454871	Dance IV	12	1

### **451871 Dance I**

Grade Placement: 9 – 12

Prerequisite: None

Credit: 1

*What's next?* Dance II

This course will focus on dance fundamentals within a variety of dance genres at an introductory level. The class is participatory in nature, utilizing movement as a form of creative expression. Attendance at after school rehearsals and performances may be required.

### **452871 Dance II**

Grade Placement: 10 – 12

Prerequisite: Dance I or audition by instructor

Credit: 1

*What's next?* Dance III

This course builds on the technical facility and skills attained in Dance I through continued study of various dance genres. In order to enroll, students must demonstrate proficiency at the Dance I exit level. The class is participatory in nature, utilizing movement as a form of creative expression. Attendance at after school rehearsals and performances may be required.

### **453871 Dance III**

Grade Placement: 11 – 12

Prerequisite: Dance II or audition by instructor

Credit: 1

*What's next?* Dance IV

This course builds on the technical facility and skills attained in Dance II through individualized training within selected genres. In order to enroll, students must demonstrate proficiency at the Dance II exit level. The class is participatory in nature, utilizing movement as a form of creative expression. Attendance at after school rehearsals and performances may be required.

### **454871 Dance IV**

Grade Placement: 12

Prerequisite: Dance III or audition by instructor

Credit: 1

This course builds on the technical facility and skills attained in Dance III through intensive individualized work in selected genres. In order to enroll, students must demonstrate proficiency at the Dance III exit level. The class is participatory in nature, utilizing movement as a form of creative expression. Attendance at after school rehearsals and performances may be required.

## **MUSIC EDUCATION**

<b>Plano ISD Course No.</b>	<b>Subject</b>	<b>Grade</b>	<b>Credits</b>
451301	String Orchestra I	9 - 12	1
452301	String Orchestra II	10 - 12	1
453301	String Orchestra III	11 - 12	1
454301	String Orchestra IV	12	1
451361	Philharmonic Orchestra I	9 - 12	1
452361	Philharmonic Orchestra II	10 - 12	1
453361	Philharmonic Orchestra III	11 - 12	1
454361	Philharmonic Orchestra IV	12	1
451371	Symphony Orchestra I	9 - 12	1
452371	Symphony Orchestra II	10 - 12	1
453371	Symphony Orchestra III	11 - 12	1
454371	Symphony Orchestra IV	12	1
453331	Orchestra III – H	11 - 12	1
454331	Orchestra IV – H	12	1
451101	Concert Band I	9 - 12	1
452101	Concert Band II	10 - 12	1
453101	Concert Band III	11 - 12	1
454101	Concert Band IV	12	1
451121	Symphonic Band I	9 - 12	1
452121	Symphonic Band II	10 - 12	1
453121	Symphonic Band III	11 - 12	1
454121	Symphonic Band IV	12	1
451141	Wind Ensemble I	9 - 12	1
452141	Wind Ensemble II	10 - 12	1
453141	Wind Ensemble III	11 - 12	1
454141	Wind Ensemble IV	12	1

<b>Plano ISD Course No.</b>	<b>Subject</b>	<b>Grade</b>	<b>Credits</b>
453131	Band III - H	11 - 12	1
454131	Band IV - H	12	1
451171	Instrumental Ensemble I – Percussion	9 - 10	.5 – 1
452171	Instrumental Ensemble II – Percussion	10	.5 – 1
453171	Instrumental Ensemble III – Percussion	11 - 12	.5 – 1
454171	Instrumental Ensemble IV – Percussion	12	.5 – 1
451191	Jazz Band I	9 - 10	1
452191	Jazz Band II	10	1
453191	Jazz Band III	11 - 12	1
454191	Jazz Band IV	12	1
451201	Concert Choir I	9 - 12	1
452201	Concert Choir II	10 - 12	1
453201	Concert Choir III	11 - 12	1
454201	Concert Choir IV	12	1
451221	Mixed Choir I	9 - 10	1
452221	Mixed Choir II	10	1
453221	Mixed Choir III	11 - 12	1
454221	Mixed Choir IV	12	1
451241	Tenor / Bass Choir I	9 - 10	1
452241	Tenor / Bass Choir II	10	1
453241	Tenor / Bass Choir III	11 - 12	1
454241	Tenor / Bass Choir IV	12	1
451261	Treble Choir I	9 - 10	1
452261	Treble Choir II	10	1
453261	Treble Choir III	11 - 12	1
454261	Treble Choir IV	12	1



<b>Plano ISD Course No.</b>	<b>Subject</b>	<b>Grade</b>	<b>Credits</b>
451281	Vocal Ensemble I	9 - 10	.5 – 1
452281	Vocal Ensemble II	10	.5 – 1
453281	Vocal Ensemble III	11 - 12	.5 – 1
454281	Vocal Ensemble IV	12	.5 – 1
453231	Choir III – H	11 - 12	1
454231	Choir IV – H	12	1
451261	Jazz / Show Choir I	9 - 10	1
452261	Jazz / Show Choir II	10	1
453261	Jazz / Show Choir III	11 - 12	1
454261	Jazz / Show Choir IV	12	1
453401	Music Theory	11 - 12	1
454451	Music Theory – AP	12	1

**A student may substitute marching band participation during the fall semester for one semester of PE requirement.**

<p><b>451301     <i>String Orchestra I</i></b>  Grade Placement: 9 – 12  Prerequisite: Audition by instructor  Credit: 1  <i>What's next?</i> String Orchestra II</p>	<p>This orchestra provides an opportunity for students to continue instrumental development at an intermediate level. Time will be required outside of class for rehearsals, trips, and other engagements. Attendance at all outside of school rehearsals and performances is required. This is a full year course.</p>
<p><b>452301     <i>String Orchestra II</i></b>  Grade Placement: 10 – 12  Prerequisite: Audition by instructor, String Orchestra I  Credit: 1  <i>What's next?</i> String Orchestra III</p>	<p>This class is a continuation of String Orchestra I. This orchestra provides an opportunity for students to continue instrumental development at an intermediate level. Time will be required outside of class for rehearsals, trips, and other engagements. Attendance at all outside of school rehearsals and performances is required. This is a full year course.</p>
<p><b>453301     <i>String Orchestra III</i></b>  Grade Placement: 11 – 12  Prerequisite: Audition by instructor, String Orchestra II  Credit: 1  <i>What's next?</i> String Orchestra IV</p>	<p>This class is a continuation of String Orchestra II. This orchestra provides an opportunity for students to continue instrumental development at an intermediate level. Time will be required outside of class for rehearsals, trips, and other engagements. Attendance at all outside of school rehearsals and performances is required. This is a full year course.</p>

<p><b>454301</b>     <b>String Orchestra IV</b>  Grade Placement: 12  Prerequisite: Audition by instructor, String Orchestra III  Credit: 1</p>	<p>This class is a continuation of String Orchestra III. This orchestra provides an opportunity for students to continue instrumental development at an intermediate level. Time will be required outside of class for rehearsals, trips, and other engagements. Attendance at all outside of school rehearsals and performances is required. This is a full year course.</p>
<p><b>451361</b>     <b>Philharmonic Orchestra I</b>  Grade Placement: 9 – 12  Prerequisite: Audition by instructor  Credit: 1  <i>What's next?</i> Philharmonic Orchestra II</p>	<p>This orchestra provides an opportunity for students to continue instrumental development at an intermediate/advanced level. Time will be required outside of class for rehearsals, trips, and other engagements. Attendance at all outside of school rehearsals and performances is required. This is a full year course.</p>
<p><b>452361</b>     <b>Philharmonic Orchestra II</b>  Grade Placement: 10 – 12  Prerequisite: Audition by instructor, Philharmonic Orchestra I  Credit: 1  <i>What's next?</i> Philharmonic Orchestra III</p>	<p>This class is a continuation of Philharmonic Orchestra I. This orchestra provides an opportunity for students to continue instrumental development at an intermediate/advanced level. Time will be required outside of class for rehearsals, trips, and other engagements. Attendance at all outside of school rehearsals and performances is required. This is a full year course.</p>
<p><b>453361</b>     <b>Philharmonic Orchestra III</b>  Grade Placement: 11 – 12  Prerequisite: Audition by instructor, Philharmonic Orchestra II  Credit: 1  <i>What's next?</i> Philharmonic Orchestra IV</p>	<p>This class is a continuation of Philharmonic Orchestra II. This orchestra provides an opportunity for students to continue instrumental development at an intermediate/advanced level. Time will be required outside of class for rehearsals, trips, and other engagements. Attendance at all outside of school rehearsals and performances is required. This is a full year course.</p>
<p><b>454361</b>     <b>Philharmonic Orchestra IV</b>  Grade Placement: 12  Prerequisite: Audition by instructor, Philharmonic Orchestra III  Credit: 1</p>	<p>This class is a continuation of Philharmonic Orchestra III. This orchestra provides an opportunity for students to continue instrumental development at an intermediate/advanced level. Time will be required outside of class for rehearsals, trips, and other engagements. Attendance at all outside of school rehearsals and performances is required. This is a full year course.</p>
<p><b>451371</b>     <b>Symphony Orchestra I</b>  Grade Placement: 9 – 12  Prerequisite: Audition by instructor  Credit: 1  <i>What's next?</i> Symphony Orchestra II</p>	<p>This orchestra provides an opportunity for students to continue instrumental development at an advanced level. Time will be required outside of class for rehearsals, trips, and other engagements. Attendance at all outside of school rehearsals and performances is required. This is a full year course.</p>
<p><b>452371</b>     <b>Symphony Orchestra II</b>  Grade Placement: 10 – 12  Prerequisite: Audition by instructor, Symphony Orchestra I  Credit: 1  <i>What's next?</i> Symphony Orchestra III</p>	<p>This class is a continuation of Symphony Orchestra I. This orchestra provides an opportunity for students to continue instrumental development at an advanced level. Time will be required outside of class for rehearsals, trips, and other engagements. Attendance at all outside of school rehearsals and performances is required. This is a full year course.</p>

<p><b>453371</b>     <b>Symphony Orchestra III</b></p> <p>Grade Placement: 11 – 12  Prerequisite: Audition by instructor, Symphony Orchestra II  Credit: 1  <i>What's next?</i> Symphony Orchestra IV</p>	<p>This class is a continuation of Symphony Orchestra II. This orchestra provides an opportunity for students to continue instrumental development at an advanced level. Time will be required outside of class for rehearsals, trips, and other engagements. Attendance at all outside of school rehearsals and performances is required. This is a full year course.</p>
<p><b>454371</b>     <b>Symphony Orchestra IV</b></p> <p>Grade Placement: 12  Prerequisite: Audition by instructor, Symphony Orchestra III  Credit: 1</p>	<p>This class is a continuation of Symphony Orchestra III. This orchestra provides an opportunity for students to continue instrumental development at an advanced level. Time will be required outside of class for rehearsals, trips, and other engagements. Attendance at all outside of school rehearsals and performances is required. This is a full year course.</p>
<p><b>453331</b>     <b>Orchestra III – H</b></p> <p>Grade Placement: 11 – 12  Prerequisite: Audition and recommendation of instructor, Orchestra II  Credit: 1  <i>What's next?</i> Symphony Orchestra IV – H</p>	<p>Although encompassing the same performance expectations as the regular orchestra course, this class has an added emphasis on research and individualized study, leading to the development of comprehensive individual musicianship. This is a full-year course.</p>
<p><b>454331</b>     <b>Orchestra VI – H</b></p> <p>Grade Placement: 12  Prerequisite: Audition and recommendation of instructor, Orchestra III  Credit: 1</p>	<p>Although encompassing the same performance expectations as the regular orchestra course, this class has an added emphasis on research and individualized study, leading to the development of comprehensive individual musicianship. This is a full-year course.</p>
<p><b>451101</b>     <b>Concert Band I</b></p> <p>Grade Placement: 9 – 12  Prerequisite: Audition by instructor  Credit: 1  <i>What's next?</i> Concert Band II</p>	<p>This band provides an opportunity for students to continue instrumental development at an intermediate level. This band will perform as a part of the total band program at all designated football games, pep assemblies, parades, marching contests, concerts, and festivals. Time will be required outside of class for rehearsals, trips, and other engagements. Attendance at all outside of school rehearsals and performances is required. This is a full-year course.</p>
<p><b>452101</b>     <b>Concert Band II</b></p> <p>Grade Placement: 10 – 12  Prerequisite: Audition by instructor, Band I  Credit: 1  <i>What's next?</i> Concert Band III</p>	<p>This class is a continuation of Concert Band I. This band will perform as a part of the total band program at all designated football games, pep assemblies, parades, marching contests, concerts, and festivals. Time will be required outside of class for rehearsals, trips, and other engagements. Attendance at all outside of school rehearsals and performances is required. This is a full-year course.</p>
<p><b>453101</b>     <b>Concert Band III</b></p> <p>Grade Placement: 11 – 12  Prerequisite: Audition by instructor, Band II  Credit: 1  <i>What's next?</i> Concert Band IV</p>	<p>This class is a continuation of Concert Band II. This band will perform as a part of the total band program at all designated football games, pep assemblies, parades, marching contests, concerts, and festivals. Time will be required outside of class for rehearsals, trips, and other engagements. Attendance at all outside of school rehearsals and performances is required. This is a full-year course.</p>

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**454101 Concert Band IV**

Grade Placement: 12

Prerequisite: Audition by instructor, Band III

Credit: 1

This class is a continuation of Concert Band III. This band will perform as a part of the total band program at all designated football games, pep assemblies, parades, marching contests, concerts, and festivals. Time will be required outside of class for rehearsals, trips, and other engagements. Attendance at all outside of school rehearsals and performances is required. This is a full-year course.

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**451121 Symphonic Band I**

Grade Placement: 9 – 12

Prerequisite: Audition by instructor

Credit: 1

*What's next?* Symphonic Band II

This band provides an opportunity for students to continue instrumental development at an intermediate/advanced level. This band will perform as a part of the total band program at all designated football games, pep assemblies, parades, marching contests, concerts, and festivals. Time will be required outside of class for rehearsals, trips, and other engagements. Attendance at all outside of school rehearsals and performances is required. This is a full-year course.

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**452121 Symphonic Band II**

Grade Placement: 10 – 12

Prerequisite: Audition by instructor, Band I

Credit: 1

*What's next?* Symphonic Band III

This class is a continuation of Symphonic Band I. This band will perform as a part of the total band program at all designated football games, pep assemblies, parades, marching contests, concerts, and festivals. Time will be required outside of class for rehearsals, trips, and other engagements. Attendance at all outside of school rehearsals and performances is required. This is a full-year course.

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**453121 Symphonic Band III**

Grade Placement: 11 – 12

Prerequisite: Audition by instructor, Band II

Credit: 1

*What's next?* Symphonic Band IV

This band provides an opportunity for students to continue instrumental development at an intermediate/advanced level. This band will perform as a part of the total band program at all designated football games, pep assemblies, parades, marching contests, concerts, and festivals. Time will be required outside of class for rehearsals, trips, and other engagements. Attendance at all outside of school rehearsals and performances is required. This is a full-year course.

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**454121 Symphonic Band IV**

Grade Placement: 12

Prerequisite: Audition by instructor, Band III

Credit: 1

This class is a continuation of Symphonic Band III. This band will perform as a part of the total band program at all designated football games, pep assemblies, parades, marching contests, concerts, and festivals. Time will be required outside of class for rehearsals, trips, and other engagements. Attendance at all outside of school rehearsals and performances is required. This is a full-year course.

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**451141 Wind Ensemble I**

Grade Placement: 9 – 10

Prerequisite: Audition by instructor

Credit: 1

*What's next?* Wind Ensemble II

This will be the top-performing band in grades 9 - 10. This band provides an opportunity for students to continue instrumental development at an advanced level. This band will perform as a part of the total band program at all designated football games, pep assemblies, parades, marching contests, concerts, and festivals. Time will be required outside of class for rehearsals, trips, and other engagements. Attendance at all outside of school rehearsals and performances is required. This is a full-year course.

<p><b>452141</b>     <b>Wind Ensemble II</b>  Grade Placement: 10 – 12  Prerequisite: Audition by instructor, Band I  Credit: 1  <i>What's next?</i> Wind Ensemble III</p>	<p>This class is a continuation of Wind Ensemble I. This band provides an opportunity for students to continue instrumental development at an advanced level. This band will perform as a part of the total band program at all designated football games, pep assemblies, parades, marching contests, concerts, and festivals. Time will be required outside of class for rehearsals, trips, and other engagements. Attendance at all outside of school rehearsals and performances is required. This is a full-year course.</p>
<p><b>453141</b>     <b>Wind Ensemble III</b>  Grade Placement: 11 – 12  Prerequisite: Audition by instructor, Band II  Credit: 1  <i>What's next?</i> Wind Ensemble IV</p>	<p>This band provides opportunity for students to continue instrumental development at an advanced level. Members of this band will perform as a part of the total band program at all football games, pep assemblies, marching contests, concerts, and festivals. Time outside of class will be required for rehearsals and other activities. Attendance at all outside of school rehearsals and performances is required. This is a full-year course.</p>
<p><b>454141</b>     <b>Wind Ensemble IV</b>  Grade Placement: 12  Prerequisite: Audition by instructor, Band III  Credit: 1</p>	<p>This class is a continuation of Wind Ensemble III. Members of this band will perform as a part of the total band program at all football games, pep assemblies, marching contests, concerts, and festivals. Time outside of class will be required for rehearsals and other activities. Attendance at all outside of school rehearsals and performances is required. This is a full-year course.</p>
<p><b>453131</b>     <b>Band III – H</b>  Grade Placement: 11 – 12  Prerequisite: Audition and recommendation of instructor, Band II  Credit: 1  <i>What's next?</i> Band IV – H</p>	<p>Although encompassing the same performance expectations as the regular band course, this class has an added emphasis on research and individualized study, leading to the development of comprehensive individual musicianship. This is a full-year course.</p>
<p><b>454131</b>     <b>Band IV – H</b>  Grade Placement: 12  Prerequisite: Audition and recommendation of instructor, Band III  Credit: 1</p>	<p>Although encompassing the same performance expectations as the regular band course, this class has an added emphasis on research and individualized study, leading to the development of comprehensive individual musicianship. This is a full-year course.</p>
<p><b>451171</b>     <b>Instrumental Ensemble I – Percussion</b>  Grade Placement: 9 – 10  Prerequisite: Audition of instructor  Credit: .5 – 1  <i>What's next?</i> Instrumental Ensemble II - Percussion</p>	<p>This class is designed for the percussion student interested in small ensemble performance. Students will have the opportunity to perform music different from that of the standard band repertoire. This course must be taken in conjunction with Band I.</p>
<p><b>452171</b>     <b>Instrumental Ensemble II – Percussion</b>  Grade Placement: 10  Prerequisite: Audition of instructor  Credit: .5 – 1  <i>What's next?</i> Instrumental Ensemble III - Percussion</p>	<p>This class is designed for the percussion student interested in small ensemble performance. Students will have the opportunity to perform music different from that of the standard band repertoire. This course must be taken in conjunction with Band II.</p>

<b>453171 Instrumental Ensemble III – Percussion</b>	This class is designed for the percussion student interested in small ensemble performance. Students will have the opportunity to perform music different from that of the standard band repertoire. This course must be taken in conjunction with Band III.
Grade Placement: 11 – 12 Prerequisite: Audition of instructor Credit: .5 – 1 <i>What's next?</i> Instrumental Ensemble IV - Percussion	
<b>454171 Instrumental Ensemble IV – Percussion</b>	This class is designed for the percussion student interested in small ensemble performance. Students will have the opportunity to perform music different from that of the standard band repertoire. This course must be taken in conjunction with Band IV.
Grade Placement: 12 Prerequisite: Audition of instructor Credit: .5 – 1	
<b>451191 Jazz Band I</b>	This course is for those students interested in pursuing the study and performance of jazz/popular music. Students will perform in a variety of formal and informal settings and may participate in festivals and competitions. Membership in the parent organization will be required except when instrumentation needs cannot be met with students within that organization. The study of improvisation will be incorporated into the curriculum of this course.
Grade Placement: 9 – 10 Prerequisite: Audition by instructor and instrumental experience Credit: 1 <i>What's next?</i> Jazz Band II	
<b>452191 Jazz Band II</b>	This course is for those students interested in pursuing the study and performance of jazz/popular music. Students will perform in a variety of formal and informal settings and may participate in festivals and competitions. Membership in the parent organization will be required except when instrumentation needs cannot be met with students within that organization. The study of improvisation will be incorporated into the curriculum of this course.
Grade Placement: 10 Prerequisite: Audition by instructor and instrumental experience Credit: 1 <i>What's next?</i> Jazz Band III	
<b>453191 Jazz Band III</b>	This course is for those students interested in pursuing the study and performance of jazz/popular music. Students will perform in a variety of formal and informal settings and may participate in festivals and competitions. Membership in the parent organization will be required except when instrumentation needs cannot be met with students within that organization. The study of improvisation will be incorporated into the curriculum of this course.
Grade Placement: 11 – 12 Prerequisite: Audition by instructor and instrumental experience Credit: 1 <i>What's next?</i> Jazz Band IV	
<b>454191 Jazz Band IV</b>	This course is for those students interested in pursuing the study and performance of jazz/popular music. Students will perform in a variety of formal and informal settings and may participate in festivals and competitions. Membership in the parent organization will be required except when instrumentation needs cannot be met with students within that organization. The study of improvisation will be incorporated into the curriculum of this course.
Grade Placement: 12 Prerequisite: Audition by instructor and instrumental experience Credit: 1	
<b>451201 Concert Choir I</b>	This course is for students with intermediate skills in sight-reading and choral singing. Instruction in this course will continue to develop vocal skills necessary for ensemble singing. Emphasis will be placed upon developing an appreciation for music. Students will perform in concert programs and participate in University Interscholastic League contests. Attendance at after school rehearsals and performances will be required. This is a full-year course.
Grade Placement: 9 – 12 Prerequisite: Audition by instructor Credit: 1 <i>What's next?</i> Concert Choir II	



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**452201 Concert Choir II**

Grade Placement: 10 – 12

Prerequisite: Audition by instructor, Choir I

Credit: 1

*What's next?* Concert Choir III

This course is for students with intermediate skills in sight-reading and choral singing. Instruction in this course will continue to develop vocal skills necessary for ensemble singing. Emphasis will be placed upon developing an appreciation for music. Students will perform in concert programs and participate in University Interscholastic League contests. Attendance at after school rehearsals and performances will be required. This is a full-year course.

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**453201 Concert Choir III**

Grade Placement: 11 – 12

Prerequisite: Audition by instructor, Choir II

Credit: 1

*What's next?* Concert Choir IV

This choir is for those students who wish to improve their vocal skills and techniques for participation in the concert choir. Students will perform in concert programs and participate in competitive contests. Attendance at after school rehearsals and performances will be required. This is a full-year course.

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**454201 Concert Choir IV**

Grade Placement: 12

Prerequisite: Audition by instructor, Choir III

Credit: 1

This choir is for those students who wish to improve their vocal skills and techniques for participation in the concert choir. Students will perform in concert programs and participate in competitive contests. Attendance at after school rehearsals and performances will be required. This is a full-year course.

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**451221 Mixed Choir I**

Grade Placement: 9 – 10

Prerequisite: Audition by instructor

Credit: 1

*What's next?* Mixed Choir II

This choir is for those students who are interested in choral performance and want to improve their skills and techniques for participation in the concert choir. Students will perform in concert programs and participate in University Interscholastic League contests. Students enrolled in this section are encouraged to enroll in the corresponding ensemble class. Attendance at after school rehearsals and performances will be required. This is a full-year course.

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**452221 Mixed Choir II**

Grade Placement: 10

Prerequisite: Audition by instructor, Choir I

Credit: 1

*What's next?* Mixed Choir III

This class is a continuation of Mixed Choir I. Students enrolled in this section are encouraged to enroll in the corresponding ensemble class. Attendance at after school rehearsals and performances will be required. This is a full-year course.

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**453221 Mixed Choir III**

Grade Placement: 11 – 12

Prerequisite: Audition by instructor, Choir II

Credit: 1

*What's next?* Mixed Choir IV

This is the top performing choir in the senior high school. The course is designed to help students develop an appreciation for choral music and to develop desirable vocal skills through the performance of a variety of styles of music. Students will perform concerts periodically and participate in University Interscholastic League contests. Attendance at after school rehearsals and performances will be required.

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**454221 Mixed Choir IV**

Grade Placement: 12

Prerequisite: Audition by instructor, Choir III

Credit: 1

This is the top performing choir in the senior high school. The course is designed to help students develop an appreciation for choral music and to develop desirable vocal skills through the performance of a variety of styles of music. Students will perform concerts periodically and participate in University Interscholastic League contests. Attendance at after school rehearsals and performances will be required.

<p><b>451241 Tenor / Bass Choir I</b>  Grade Placement: 9 – 10  Prerequisite: Audition and approval of instructor  Credit: 1  <i>What's next?</i> Tenor / Bass Choir II</p>	<p>This course is designed to help the student develop vocal abilities through the use of music written for tenor and bass voices. Students will be instructed in both melodic and rhythmic reading. Students will perform in concerts and may participate in contests. Attendance at after school rehearsals and performances will be required. This is a full-year course.</p>
<p><b>452241 Tenor / Bass Choir II</b>  Grade Placement: 10  Prerequisite: Audition and approval of instructor, Choir I  Credit: 1  <i>What's next?</i> Tenor / Bass Choir III</p>	<p>This course is designed to help the student develop vocal abilities through the use of music written for tenor and bass voices. Students will be instructed in both melodic and rhythmic reading. Students will perform in concerts and may participate in contests. Attendance at after school rehearsals and performances will be required. This is a full-year course.</p>
<p><b>453241 Tenor / Bass Choir III</b>  Grade Placement: 11 – 12  Prerequisite: Audition and approval of instructor  Credit: 1  <i>What's next?</i> Tenor / Bass Choir IV</p>	<p>This choir is for those students interested in performing the finest repertoire for tenor/bass voices from various historical periods. Performance in concert programs and University Interscholastic League contests will be required. Attendance at after school rehearsals and performances will be required. This is a full-year course.</p>
<p><b>454241 Tenor / Bass Choir IV</b>  Grade Placement: 12  Prerequisite: Audition and approval of instructor, Choir I  Credit: 1</p>	<p>This choir is for those students interested in performing the finest repertoire for tenor/bass voices from various historical periods. Performance in concert programs and University Interscholastic League contests will be required. Attendance at after school rehearsals and performances will be required. This is a full-year course.</p>
<p><b>451261 Treble Choir I</b>  Grade Placement: 9 – 10  Prerequisite: Audition by instructor  Credit: 1  <i>What's next?</i> Treble Choir II</p>	<p>This course is designed to help the student develop vocal techniques necessary for the performance of difficult music for treble voices. Students will be instructed in both melodic and rhythmic reading. Students will perform in concerts and may participate in contests. Attendance at after school rehearsals and performances will be required. This is a full-year course.</p>
<p><b>452261 Treble Choir II</b>  Grade Placement: 10  Prerequisite: Audition by instructor, Choir I  Credit: 1  <i>What's next?</i> Treble Choir III</p>	<p>This course is designed to help the student develop vocal techniques necessary for the performance of difficult music for treble voices. Students will be instructed in both melodic and rhythmic reading. Students will perform in concerts and may participate in contests. Attendance at after school rehearsals and performances will be required. This is a full-year course.</p>
<p><b>453261 Treble Choir III</b>  Grade Placement: 11 – 12  Prerequisite: Audition by instructor, Choir II  Credit: 1  <i>What's next?</i> Treble Choir IV</p>	<p>This course is designed to help the student develop vocal techniques necessary for the performance of difficult music for treble voices. Students will be instructed in both melodic and rhythmic reading. Students will perform in concerts and may participate in contests. Attendance at after school rehearsals and performances will be required. This is a full-year course.</p>



<p><b>454261 Treble Choir IV</b>  Grade Placement: 12  Prerequisite: Audition by instructor, Choir III  Credit: 1</p>	<p>This course is designed to help the student develop vocal techniques necessary for the performance of difficult music for treble voices. Students will be instructed in both melodic and rhythmic reading. Students will perform in concerts and may participate in contests. Attendance at after school rehearsals and performances will be required. This is a full-year course.</p>
<p><b>451281 Vocal Ensemble I</b>  Grade Placement: 9 – 10  Prerequisite: Audition of instructor  Credit: .5 – 1  <i>What's next?</i> Vocal Ensemble II</p>	<p>This class is designed for the student interested in small ensemble performance. Students will have the opportunity to perform a varied selection of music different from that of the standard choral repertoire. This course must be taken in conjunction with a larger choral ensemble listed above.</p>
<p><b>452281 Vocal Ensemble II</b>  Grade Placement: 10  Prerequisite: Audition of instructor  Credit: .5 – 1  <i>What's next?</i> Vocal Ensemble III</p>	<p>This class is designed for the student interested in small ensemble performance. Students will have the opportunity to perform a varied selection of music different from that of the standard choral repertoire. This course must be taken in conjunction with a larger choral ensemble listed above.</p>
<p><b>453281 Vocal Ensemble III</b>  Grade Placement: 11 – 12  Prerequisite: Audition of instructor  Credit: .5 – 1  <i>What's next?</i> Vocal Ensemble IV</p>	<p>This class is designed for the student interested in small ensemble performance. Students will have the opportunity to perform a varied selection of music different from that of the standard choral repertoire. This course must be taken in conjunction with a larger choral ensemble listed above.</p>
<p><b>454281 Vocal Ensemble IV</b>  Grade Placement: 12  Prerequisite: Audition of instructor  Credit: .5 – 1</p>	<p>This class is designed for the student interested in small ensemble performance. Students will have the opportunity to perform a varied selection of music different from that of the standard choral repertoire. This course must be taken in conjunction with a larger choral ensemble listed above.</p>
<p><b>453231 Choir III – H</b>  Grade Placement: 11 – 12  Prerequisite: Audition or recommendation of instructor, Choir II  Credit: 1  <i>What's next?</i> Choir IV – H</p>	<p>Although encompassing the same performance expectations as the regular choir courses, this class has an added emphasis on research and individualized study, leading to the development of comprehensive individual musicianship. Attendance at after school rehearsals and performances will be required. This is a full-year course.</p>
<p><b>454231 Choir IV – H</b>  Grade Placement: 12  Prerequisite: Audition or recommendation of instructor, Choir III  Credit: 1</p>	<p>Although encompassing the same performance expectations as the regular choir course, this class has an added emphasis on research and individualized study, leading to the development of comprehensive individual musicianship. Attendance at after school rehearsals and performances will be required. This is a full-year course.</p>
<p><b>451261 Jazz / Show Choir I</b>  Grade Placement: 9 – 10  Prerequisite: Approval of Instructor  Credit: 1  <i>What's next?</i> Jazz / Show Choir II</p>	<p>This course is for those students interested in pursuing the study and performance of jazz/popular music. Students will perform in a variety of formal and informal settings and may participate in festivals and competitions. Membership in the parent organization will be required except when instrumentation needs cannot be met with students within that organization. The study of improvisation will be incorporated into the curriculum of this course.</p>

<p><b>452261 Jazz / Show Choir II</b>  Grade Placement: 10  Prerequisite: Approval of Instructor  Credit: 1  <i>What's next?</i> Jazz / Show Choir III</p>	<p>This course is for those students interested in pursuing the study and performance of jazz/popular music. Students will perform in a variety of formal and informal settings and may participate in festivals and competitions. Membership in the parent organization will be required except when instrumentation needs cannot be met with students within that organization. The study of improvisation will be incorporated into the curriculum of this course.</p>
<p><b>453261 Jazz / Show Choir III</b>  Grade Placement: 11 – 12  Prerequisite: Approval of Instructor  Credit: 1  <i>What's next?</i> Jazz / Show Choir IV</p>	<p>This course is for those students interested in pursuing the study and performance of jazz/popular music. Students will perform in a variety of formal and informal settings and may participate in festivals and competitions. Membership in the parent organization will be required except when instrumentation needs cannot be met with students within that organization. The study of improvisation will be incorporated into the curriculum of this course.</p>
<p><b>454261 Jazz / Show Choir IV</b>  Grade Placement: 12  Prerequisite: Approval of Instructor  Credit: 1</p>	<p>This course is for those students interested in pursuing the study and performance of jazz/popular music. Students will perform in a variety of formal and informal settings and may participate in festivals and competitions. Membership in the parent organization will be required except when instrumentation needs cannot be met with students within that organization. The study of improvisation will be incorporated into the curriculum of this course.</p>
<p><b>453401 Music Theory</b>  Grade Placement: 11 – 12  Prerequisite: None  Credit: 1  <i>What's next?</i> Music Theory AP</p>	<p>This course offers students opportunities to create, perform, listen to, and analyze music from various styles and genres (e.g. rock, pop, jazz and classical). Current technological developments are used in this class to provide "state of the art" learning opportunities. One unit of this course may serve as the required fine arts course for the recommended and distinguished achievement graduation programs.</p>
<p><b>454451 Music Theory AP</b>  Grade Placement: 12  Prerequisite: Knowledge of music fundamentals and / or approval of instructor  Credit: 1</p>	<p>This course will be a study of advanced music literacy, focusing on aural and written musical skills. This course covers material typically taught at a college freshman level. For students who plan to continue musical studies on the college level, this course will offer an essential opportunity for in-depth study and preparation. Current technological developments are used in this class to provide "state of the art" learning opportunities.</p>

# THEATER EDUCATION

Plano ISD Course No.	Subject	Grade	Credits
451801	Theater Arts I	9 – 12	1
452801	Theater Arts II	10 – 12	1
453801	Theater Arts III	11 – 12	1
454801	Theater Arts IV	12	1
451901	Technical Theater I	9 – 12	1
452901	Technical Theater II	10 – 12	1
453901	Technical Theater III	11 – 12	1
454901	Technical Theater IV	12	1
455101	Theater Production I	11 – 12	1
455201	Theater Production II	12	1
455301	Theater Production III	11 – 12	1
455401	Theater Production IV	12	1
455131	Theater Production I – H	11 – 12	1
455231	Theater Production II – H	12	1

## **451801 Theater Arts I**

Grade Placement: 9 – 12

Prerequisite: None

Credit: 1

*What's next?* Theater Arts II

This course is an introduction to the high school theater program. Basic acting techniques, technical theater, and the fundamentals of play production are taught. The course also includes dramatic interpretation, the training of the speaking voice, the study of stage diction, and an exploration of theatrical history. Students will be required to read plays and/or see local productions.

## **452801 Theater Arts II**

Grade Placement: 10 – 12

Prerequisite: Theater Arts I (1 credit)

Credit: 1

*What's next?* Theater Arts III

This course is for the student who wishes to explore further his/her studies of theater. It is a continuation of Theater I, stressing basic production and acting techniques, technical theater, dramatic literature, and theater history. Students will be required to read plays and/or see local productions. **This course may not be offered at the senior high schools. If this course is not offered, the student may sign up to take Theatre Arts III.**

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**453801 Theater Arts III**

Grade Placement: 11 – 12

Prerequisite: Theater Arts I (1 credit)

Credit: 1

*What's next?* Theater Arts IV

Students in this course will study technical theater, play production, and various forms of programming. Special emphasis is given to acting techniques. The study of great actors and playwrights and their contributions to the World Theater is explored. Students are expected to become involved in some play productions during the year. Students will be required to read plays and/or see local productions.

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**454801 Theater Arts IV**

Grade Placement: 12

Prerequisite: Theater Arts I (1 credit)

Credit: 1

This course is also geared to production and is designed for the student interested in a concentrated study of all phases of theater. Participation in production is expected. Styles of acting will be studied with emphasis placed on the psychological aspect of performance. Students will be required to read plays and/or see local productions.

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**451901 Technical Theater I**

Grade Placement: 9 – 12

Prerequisite: An application may be required

Credit: 1

*What's next?* Technical Theater II

Fundamentals of stage design, set and property construction, as well as the principles of stage lighting and sound will be taught in this course. Stage production is an integral part of this class. Thus, each student will be required to attend play rehearsals and serve on production crews outside of class. Students will be required to read plays and/or see local productions.

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**452901 Technical Theater II**

Grade Placement: 10 – 12

Prerequisite: Technical Theater I (1 credit) and teacher or counselor approval and an application may be required

Credit: 1

*What's next?* Theater Production I and III

This course is an advanced exploration of all areas of technical theater. Topics will include set design, set construction, lighting, sound, properties, costuming, and special effects. Students will study stage management, exploring various forms of leadership skills. Students will be required to attend play rehearsals and serve on production crews outside of class. Students will be required to read plays and/or see local productions.

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**453901 Technical Theater III**

Grade Placement: 11 – 12

Prerequisite: Technical Theater I (1 credit) and teacher or counselor approval and an application may be required

Credit: 1

*What's next?* Theater Production I and III

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**454901 Technical Theater IV**

Grade Placement: 12

Prerequisite: Technical Theater I (1 credit) and teacher or counselor approval and an application may be required

Credit: 1

*What's next?* Theater Production I and III

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**455101 Theater Production I**

Grade Placement: 11 – 12

Prerequisite: Theater Arts (1 credit) and audition or recommendation of instructor

Credit: 1

*What's next?* Theater Production II and IV

**455301 Theater Production III**

Grade Placement: 11 – 12

Prerequisite: Theater Arts (1 credit) and audition or recommendation of instructor

Credit: 1

*What's next?* Theater Production II and IV

These courses may be scheduled as a 2-hour block in a student's day on some campuses. Students enrolled in this course will continue their theatrical study for their own enrichment and will explore the relevance of theater-related activities to everyday living. Emphasis will be placed on strengthening the individual's self-concept through the study of various acting techniques, technical theater, play production, voice, acting, performance, movement, and drama as literature. Students are required to participate in all productions on their campus either as a performer or technician. A research paper will be assigned, also. Students will be required to read plays and/or see local productions.

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**455201 Theater Production II**

Grade Placement: 12

Prerequisite: Theater Production I and III and audition or recommendation of instructor

Credit: 1

*What's next?* Theater Production II and IV

**455401 Theater Production IV**

Grade Placement: 12

Prerequisite: Theater Production I and III and audition or recommendation of instructor

Credit: 1

*What's next?* Theater Production I –H

These courses may be scheduled as a 2-hour block in a student's day on some campuses. This course is an advanced exploration of theater. Students enrolled in this course will continue their theatrical study for their own enrichment and will explore the possibilities of a career in some phase of theater. Emphasis will be placed on performance techniques and the auditioning process. Other topics will include technical theater, play production, voice, acting, movement, and drama as literature. Students are required to participate in all productions on their campus either as a performer or technician. A research paper will be assigned, also. Students will be required to read plays and/or see local productions.

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**455131 Theater Production I – H**

Grade Placement: 11 – 12

Prerequisite: Audition or recommendation of instructor

Credit: 1

*What's next?* Theater Production II –H

Although encompassing the same performance expectations as the regular theater production course, this class has an added emphasis on research and individualized study, leading to the development of comprehensive individual theatrical skills. This course requires a contract for completion of course requirements in order to receive honors credit. Students are required to participate in all productions on their campus either as a performer or technician. A research paper will be assigned, also. Students will be required to read plays and/or see local productions.

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**455231 Theater Production II – H**

Grade Placement: 11 – 12

Prerequisite: Audition or recommendation of instructor

Credit: 1

Although encompassing the same performance expectations as the regular theater production course, this class has an added emphasis on research and individualized study, leading to the development of comprehensive individual theatrical skills. This course requires a contract for completion of course requirements in order for the student to receive honors credit. Students are required to participate in all productions on their campus either as a performer or technician. A research paper will be assigned, also. Students will be required to read plays and/or see local productions.

## **GIFTED EDUCATION (PACE / HUMANITIES)**

<b>Plano ISD Course No.</b>	<b>Subject</b>	<b>Grade</b>	<b>Credits</b>
101041	Humanities I English I GT (Pre-AP English I)	9	1
252041	Humanities II World History AP GT (AP World History)	10	1
S14251	American Studies (English III AP LANG and AP U.S. History)	11	2
95243B	The Human Experience: Culture, Media and Perception	12	.5

**101041     *Humanities I English I GT (Pre-AP English I)***

Grade Placement: 9  
Prerequisite: Identification / Selection as Gifted  
Credit: 1

**252041     *Humanities II World History AP GT (AP World History)***

Grade Placement: 10  
Prerequisite: Identification / Selection as Gifted  
Credit: 1  
*What's next?* American Studies; Advanced Placement and International Baccalaureate courses

Humanities I English I GT and Humanities II World History AP GT are courses that provide gifted students with opportunities not available through regular or advanced classes. The courses combine Pre-AP English I with AP World History in a two-year interdisciplinary spiral. The basic content is a historical study of the commonalities of the fine arts, including literature, the visual arts, architecture, and music. Humanities I focuses on the period up to the Renaissance; Humanities II examines the period from the Renaissance to modern times. Students will learn and practice the craft of writing through various products, including AP style writing. Literature from a variety of world traditions will also be a key focus. Ninth and tenth grade students will sit in the same class while earning credit in separate courses; ninth graders will earn Pre-AP English I credit while tenth graders earn AP World History credit. At the conclusion of Humanities II, students can sit for the AP World History to possibly earn college credit. **Humanities does NOT fulfill the fine arts requirement for graduation and is not recognized as a fine arts course by TEA.**

**S14251     *American Studies (English III AP LANG and AP U.S. History)***

Grade Placement: 11  
Prerequisite: None  
Credit: 2  
*What's next?* The Human Experience: Culture, Media and Perception

American Studies combines AP US History and English III AP Language to create a daily two hour cultural experience enabling students to simultaneously explore the connections between literature and history. Students will explore the history of the United States with special emphasis placed on the study of rhetorical styles and structures of important historical documents and readings. This course focuses on the cultural accomplishments as manifested in art, architecture, literature, music, and other visual media. Students will learn and practice the craft of writing through various products, specifically focused on the essay formats necessary for success on both the AP US History and AP English Language exams. US Literature of all genres will be incorporated into the curriculum within the structure of the historical study, and used as a method of enhancing the depiction of historical time periods. At the culmination of the class, students can take both the AP US History and the AP English Language exams in the hopes of earning college credit.

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**95243B**    ***The Human  
Experience: Culture,  
Media and Perception***

Grade Placement: 12

Prerequisite: G/T Identification, American Studies,  
or application with teacher recommendation.

Credit: .5

The course focuses on overarching themes and 21st century issues; multi-media sources are examined requiring students to consider how the media influences students' understanding of world events. The highly independent nature of this course encourages gifted and high achieving students to take ownership of their learning experience while exploring the connection between 21st century media and current events. A focus on skills such as persuasion, analysis, and research requires each student to develop a position on each topic. The course culminates in a "position presentation" on a topic of the student's choice.



## HEALTH AND PHYSICAL EDUCATION

Up to 4 credits of Physical Education or Athletics may be earned toward the total number of credits for graduation.

SEE YOUR SCHOOL COUNSELOR FOR CLARIFICATION REGARDING CREDITS.

Plano ISD Course No.	Subject	Grade	Credits
30100B	Health I	9 – 12	.5
554201	Principles of Health Science	10 – 12	1
301101	Foundations of Personal Fitness	9 – 12	.5 – 1
302401	Adventure / Outdoor Education	9 – 12	.5 – 1
302201	Aerobic Activities	9 – 12	.5 – 1
302501	Team Sports	9 – 12	.5
302601	Individual Sports	9 – 12	.5
302901	Team or Individual Sports (Weight Training )	11 – 12	.5 – 1
Campus #	Partners Physical Education	9 – 12	.5 – 4
302301	Aerobic Activities (STEP)	9 – 12	.5 – 1

### **30100B Health I**

Grade Placement: 9 – 12

Prerequisite: None

Credit: .5

**THIS COURSE IS REQUIRED FOR GRADUATION.** This course in health education is required of all students in grades nine through twelve. In Health I, students develop skills that will help them to become health-literate adults. Students gain a deeper understanding of the knowledge and behaviors they use to safeguard their health, particularly pertaining to health risks. Students are taught how to access accurate information that they can use to promote health for themselves and others in such areas as fitness, nutrition, mental/emotional health, substance abuse, and interpersonal relationships. Students use problem-solving, research, goal-setting, and communication skills to protect their health and that of the community.

### **554201 Principles of Health Science**

Grade Placement: 10 – 12

Prerequisite: Biology I or presently enrolled in Biology I

Credit: 1

*What's next?* Health Science (Clinical Rotation I)

Principles of Health Science is designed to provide students the opportunity for comprehensive study of human anatomy and physiology, medical terminology, introduction to basic patient care skills, American Heart Association First Aid and CPR certification, as well as health career exploration. Students will also address the relevance of this class to today's health care industry. **This course is the required prerequisite for Health Science (Clinical Rotation).** Successful completion of both semesters of this course will satisfy the Health credit required for graduation. This course may be eligible for Tech Prep credit. See page 109 for details.



## **High School Physical Education**

In physical education, students acquire the knowledge and skills for movement that provide the foundation for enjoyment, continued social development through physical activity, and access to a physically active lifestyle. The student exhibits a physically active lifestyle and understands the relationship between physical activity and health through the lifespan.

### **Physical Fitness Assessment**

Each student identified by the Texas Education Agency will participate in an annual physical fitness assessment. The Fitnessgram assessment instrument will contain criterion-referenced standards specific to a student's age and gender based on the physical fitness level required for good health. Good health components will include an aerobic capacity, body composition, muscular strength, muscular endurance and a flexibility assessment.

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#### **301101 Foundations of Personal Fitness**

Grade Placement: 9 – 12

Prerequisite: None

Credit: .5 – 1

The purpose of Foundations of Personal Fitness is to motivate students to strive for lifetime personal fitness with an emphasis on the health-related components of physical fitness. Knowledge and skills taught in this course include teaching students about the process of becoming fit as well as achieving some degree of fitness within the class. The concepts of wellness and how to reach an optimal level of health are the cornerstones of this course. Students will design their own personal fitness program as one of the objectives of the class. Students enrolled in Foundations of Personal Fitness could experience activity levels of moderate to high intensity.

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#### **302401 Adventure/Outdoor Education**

Grade Placement: 9 – 12

Prerequisite: None

Credit: .5 – 1

Students, enrolled in adventure/outdoor education, are expected to develop competency in Adventure/Outdoor Education activities that provide opportunities for enjoyment and challenge. Emphasis is placed upon student selection of activities that also promote a respect for the environment and that can be enjoyed for a lifetime.

Adventure/Outdoor Education include activities such as archery, backpacking, camping, cycling, hiking, fishing, martial arts, orienteering, rollerblading, or new games. Knowledge of The National Parks Association, Endangered Species Information, Boating Safety and Hunting Safety are a part of the curriculum. Recreational pursuits include field experiences, navigation, water recreation, and recreational shooting.

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#### **302201 Aerobic Activities**

Grade Placement: 9 – 12

Prerequisite: None

Credit: .5 – 1

Students enrolled in Aerobic Activities are exposed to a variety of activities that promote health-related fitness. A major expectation of this course is for the student to design a personal fitness program that uses aerobic activities as a foundation.

Aerobic Activities include activities such as aerobic dance, cycling, jogging, jump rope, new games, power walking, recreational dance, self-defense, step aerobics, and weight training. Students enrolled in Aerobic Activities could experience activity levels of moderate to high intensity.

---

**302501 Team Sports**

Grade Placement: 9 – 12

Prerequisite: None

Credit: .5

Students enrolled in Team Sports are expected to develop health-related fitness and an appreciation for teamwork and fair play. Students will have the opportunity to participate in and develop more advanced skills in team sports.

Team sports include activities such as basketball, field hockey, flag football, floor hockey, kickball, lacrosse, new games as developed, soccer, softball, team handball, Ultimate Frisbee and volleyball.

---

**302601 Individual Sports**

Grade Placement: 9 – 12

Prerequisite: None

Credit: .5

Students enrolled in Individual Sports are expected to participate in a wide range of individual sports that can be pursued for a lifetime. The continued development of health-related fitness and the selection of Individual sport activities that are enjoyable is a major objective of this course. Students will have the opportunity to participate in and develop more advanced skills in individual sports.

Individual Sports include activities such as archery, badminton, bicycling, bowling, golf, gymnastics, handball, new games as developed, pickle ball, self-defense, table tennis, tennis, track and field, and weight training.

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**302901 Team or Individual Sports (Weight Training)**

Grade Placement: 11 – 12

Prerequisite: None

Credit: .5 – 1

Students enrolled in this course will be taught correct lifting form. Students will establish a personal program to include circuit training and/or individualized training programs. Aerobic fitness training will be incorporated into the course.

Students enrolled in Weight Training could experience activity levels of moderate to high intensity.

Students enrolled in Weight Training could earn up to 2 semesters of Team or Individual Sports credit.

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**Campus # Partners Physical Education**

Grade Placement: 9 – 12

Prerequisite: Recommendation and approval of counselor

Credit: .5 – 4

Students enrolled in this course assist Special Education Services students in a variety of physical education activities. Students enrolled in this course will be working with special needs students.

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**302301 Aerobic Activities (STEP)**

Grade Placement: 9 – 12

Prerequisite: None

Credit: .5 – 1

This course is designed to create and produce dance and step rhythmic movements that embody the history of African dance. Students will develop a personal fitness program that uses aerobic activities as a foundation. Students enrolled in this course could experience activity levels of moderate to high intensity. Students enrolled in STEP could earn up to 2 semesters of Aerobic Activities credit. This course may include performances at pep rallies and some sports events. Other performances may include some district performances/activities.

# INTERNATIONAL BACCALAUREATE

\_\_\_\_\_  
Last Name

\_\_\_\_\_  
First Name

\_\_\_\_\_  
Graduation Year

\_\_\_\_\_  
ID #

\_\_\_\_\_  
Feeder School

## IB Diploma Program Plan

### I. Directions for Choosing Your Six (6) IB Exams:

1. Choose 2 or more higher level exams. (See the reverse side for the correct name of the HL exams.)
2. Choose 2 more standard level exams. (See the reverse side for the correct name of the SL exams.)
3. Place an "X" in the box to the right of your SL exam if you plan to take the exam at the end of 11th grade.
4. To ensure that you have chosen one exam from each of the six IB groups, place an "X" before each group number.

#### SIX IB GROUPS

- (1) English  
 (2) Foreign Language  
 (3) Social Sciences  
 (4) Science  
 (5) Math  
 (6) Arts and Electives

(a second group 3 or 4 can substitute for group 6)

Higher Level (HL)	Standard Level (SL)
English	

### II. Directions for Choosing your 11<sup>th</sup> and 12<sup>th</sup> Grade IB Courses:

1. Use the reverse side to match IB exams to 11<sup>th</sup> and 12<sup>th</sup> grade IB courses.
2. Place "X's" in front of the 11<sup>th</sup> and 12<sup>th</sup> grade courses. (Eng. 3 IB, Eng 4 IB, US History IB, and Theory of Knowledge are already checked since everyone will take these courses.)

#### 11th Grade IB Course Choices

	IB Group	Course	Number
X	1	English 3 IB	103061
	2	Spanish 3 IB	503461
	2	Spanish 4 IB	504461
	2	French 3 IB	503161
	2	French 4 IB	504161
X	3	US History IB	251061
	3	Economics IB	255061
	4	Biology 2 IB SL	204261
	4	Chemistry 2 SL IB	205361
	4	Physics IB SL	206061
	4	Environmental Systems IB SL	208261
	5	Algebra 2/H/IIH/AP	154061
	5	Regulars Pre-Calculus	155001
	5	Pre-Calculus H/IB/AP	155061
	5	Math Studies IB (SL)	158061
	5	Calculus IB (SL)	158161
	6	Computer Science 1 IB	401061
	6	IB Art 3	456401

#### 12th Grade IB Course Choices

	IB Group	Course	Number
X	Core	Theory of Knowledge	952461
X	1	English 4 IB	104061
	2	Spanish 4 IB	504461
	2	Spanish 5 IB	505461
	2	French 4 IB	504161
	2	French 5 IB	505161
	3	World Area Studies	253161
	3	Economics 1 IB	255061
	4	Biology 2 IB SL	204261
	4	Biology 2 IB HL	204281
	4	Chemistry 2 IB SL	205361
	4	Chemistry 2 IB HL	205381
	4	Physics IB HL	206161
	4	Environmental Systems IB SL	208261
	5	Math Studies IB (SL)	158061
	5	Calculus IB (SL)	158161
	5	Calculus IB (HL)	159061
	6	Computer Science 1 IB SL	401061
	6	Computer Science 2 IB HL	402061
	6	IB Art 4	456451

**Important:** It is the student's responsibility to work with his or her counselor to ensure that all graduation requirements have been or will be met. This plan focuses on meeting the IB requirements only.

Although not recommended, a student may choose 4 higher level and 2 standard level exams.

## INTERNATIONAL BACCALAUREATE

Path from IB Courses to IB Exams			
11 <sup>th</sup> Grade Courses	12 <sup>th</sup> Grade Courses	IB Exams	Year of Exam
<b>Group 1: English</b>			
IB English III	+	IB English IV	English A1 HL 12 <sup>th</sup> Grade
<b>Group 2: Second Language</b>			
IB Spanish IV	+	(No course)	Spanish B SL 11 <sup>th</sup> Grade
H/IH/AP Spanish III	+	IB Spanish IV	Spanish B SL 12 <sup>th</sup> Grade
IB Spanish IV	+	IB Spanish V	Spanish B SL or HL 12 <sup>th</sup> Grade
<b>Group 3: Social Studies</b>			
IB US History	+	IB World Area Studies	History of Americas HL 12 <sup>th</sup> Grade
*IB Economics 1 (either 11 <sup>th</sup> or 12 <sup>th</sup> grade)		Economics SL	11 <sup>th</sup> or 12 <sup>th</sup> Grade
<b>Group 4: Science</b>			
IB Biology 1			Biology SL 11 <sup>th</sup> or 12 <sup>th</sup> Grade
IB Biology 1	+	IB Biology 2	Biology HL 11 <sup>th</sup> and 12 <sup>th</sup> Grade
IB Chemistry 1			Chemistry SL 11 <sup>th</sup> or 12 <sup>th</sup> Grade
IB Chemistry 1	+	IB Chemistry 2	Chemistry HL 11 <sup>th</sup> and 12 <sup>th</sup> Grade
** IB Physics 1			Physics SL 11 <sup>th</sup> Grade
** IB Physics	+	IB Physics 2	Physics HL 11 <sup>th</sup> and 12 <sup>th</sup> Grade
IB Environmental Systems		Environmental Systems SL	11 <sup>th</sup> or 12 <sup>th</sup> Grade
<p>(**Prerequisite: Alg. 1-H and Alg. 2 – H and Geometry H, 2 units of science, concurrent enrollment in Pre-Calculus)</p> <p>Since all IB students take IH Biology 1 in the 9<sup>th</sup> grade and IH Chemistry 1 in the 10<sup>th</sup> grade, regular Physics or Honor Physics or IB Physics must be taken in the 11<sup>th</sup> or 12<sup>th</sup> grade to meet PISD graduation requirements.</p> <p>* IB Physics is only necessary if a student wishes to take the IB Physics SL exam.</p>			
<b>Group 5: Mathematics</b>			
Reg/H/IB/AP Pre-Calculus	+	IB Calculus SL	Mathematics SL 12 <sup>th</sup> Grade
H/IH/AP Pre-Calculus	+	IB Calculus HL	Mathematics HL 12 <sup>th</sup> Grade
IB Math Studies (either 11 <sup>th</sup> or 12 <sup>th</sup> grade) (Pre-requisite Algebra 2)		Math Studies SL	*11 <sup>th</sup> or 12 <sup>th</sup> Grade
<b>Group 6: Arts and Electives</b>			
IB Computer Science 1	+	IB Computer Science 2	Computer Science HL 12 <sup>th</sup> Grade
IB Computer Science 1 (May be taken in either 11th or 12th grade) (Algebra 1 and Geometry are Pre-requisites)		Computer Science SL	*11 <sup>th</sup> or 12 <sup>th</sup> Grade
IB Art Design III	+	IB Art Design IV (Art I and Art II are Pre-requisites)	Art Design HL 12 <sup>th</sup> Grade
*11 <sup>th</sup> or 12 <sup>th</sup> Grade – Exam may be taken either year, BUT THE STUDENT MUST SIT FOR THE EXAM AT THE END OF THE YEAR THE COURSE IS TAKEN.			
“+” indicates that the student must take an 11 <sup>th</sup> grade PLUS a 12 <sup>th</sup> grade course before he/she sits for the exam.			

## INTERNATIONAL BACCALAUREATE COURSES

### Group 1: IB English

#### **103061 English III – IB**

Grade Placement: 11

Prerequisite: IH/Honors English I and II

Credit: 1

*What's next?* English IV IB

Junior English in the IB program is a university level course which allows the student to test out of freshman English. The curriculum includes fiction and nonfiction selections in various genres, some of which are works in translation. Composition of the World Lit I papers 1 and 2 are required during the year. An oral presentation is required during the spring semester which is internally assessed. At the end of the year, students are eligible to take the AP Language and Composition Exam.

#### **952461 English IV – IB**

Grade Placement: 12

Prerequisite: IH/Honors English I and II, IB English III

Credit: 1

This course is designed to give the superior student in English college level studies. A close study of a relatively small number of works in class will be supplemented with wide outside reading in world literature. Additionally, emphasis will be placed upon clear, analytical writing. Students must submit two world literature papers for international evaluation. Students participate in oral examinations which are moderated by international educators. The student will have the opportunity to take the advanced placement examination for literature /composition and/or language/composition. This is course number 2 which is required study for the IB English HL exam taken at the end of the senior year.

### Group 2: Second Language

#### **504161 French IV – IB**

Grade Placement: 11 – 12

Prerequisite: French I, II, III, teacher recommendation, and appropriate scores

Credit: 1

*What's next?* French V IB

French IV-IB may be taught together with French IV-AP (50415A). This course meets the requirements of an intermediate college course in French studies. It stresses the development of fluency in oral skills, comprehension of French literature and history, expository composition, and expanded use of grammar. This course utilizes higher level/critical thinking skills and focuses on the development of accuracy and fluency. The student will have the opportunity to take the advanced placement examination at the conclusion of this course. The focus of this course is an intermediate proficiency. Students participate in oral examinations which are moderated by international educators. This course prepares the student to take both the AP and IB French SL exams.

#### **505161 French V – IB**

Grade Placement: 12

Prerequisite: French I, II, III, IV, teacher recommendation, and appropriate scores

Credit: 1

French V IB meets the requirements of an intermediate college course in French. It stresses the development of fluency in oral skills, comprehension of French history and of French literary selections, expository composition and expanded grammatical structures. This course emphasizes higher level and critical thinking skills and focuses on the development of accuracy and fluency. In French V, students develop a deeper and broader understanding of the French language and culture. Internationalism, the awareness of oneself in relation to other cultures, is also explored in this course. The IB Higher Level exam in French holds the students to language standards that require at least five years of study. Assessments are comprised of both written and oral work. IB students in French V are prepared for both IB and AP (international and national) assessments.

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**504461 Spanish IV – IB**

Grade Placement: 11 – 12

Prerequisite: Spanish III or Spanish III H/PreAP/IH, teacher recommendation and appropriate scores

Credit: 1

*What's next?* Spanish V IB

Spanish IV-IB may be taught together with Spanish IV-AP (50445A). This course stresses the development of fluency in oral skills, comprehension of Spanish literature and history, expository composition, and expanded use of grammar. This course utilizes higher level/critical thinking and focuses on the development of accuracy and fluency. The student will have the opportunity to take the advanced placement/IB examination at the conclusion of this course. The focus of this course is an intermediate mid to high proficiency. Students participate in oral examinations which are moderated by international educators.

**505461 Spanish V – IB**

Grade Placement: 12

Prerequisite: Spanish IV-IB, teacher recommendation and appropriate scores

Credit: 1

Spanish V-IB may be taught together with Spanish V-AP (50545A). This course meets the requirements of Spanish collegiate studies. It stresses the development of fluency in oral skills, comprehension of Spanish literature and history, expository composition, and expanded use of grammar. It utilizes high level/critical thinking and focuses on the development of accuracy and fluency. Students participate in oral examinations which are moderated by international educators. This course prepares the student to take the AP and IB Spanish HL or SL exams.

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**Group 3: Individuals & Societies**

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**251061 United States History  
IB**

Grade Placement: 11

Prerequisite: Honors/IH English 2, Honors/IH/AP World History and World/Human Geography

Credit: 1

*What's next?* IB World Area Studies

The course is designed for students who have demonstrated the ability and interest to study United States history on the college level. The content for this course emphasizes the Colonial-Revolutionary War Period, Constitutional Period, the Age of Jackson, the Civil War and Reconstruction, the Progressive Era, the New Deal, and the emergence of America as a world power after World War II. Cultural diversities and the role of minorities will be a major focus. Analytical and research skills will be used to study primary sources and scholarly works in an effort to discover the overall movement and fabric of United States history. This course also includes a study of the colonial period and independence movement in Latin America, which is tested on the senior History of Americas exam. The senior higher-level exam includes curriculum from the junior and senior courses. The student will have the opportunity to take the Advanced Placement examination at the conclusion of the course. The student may take this course for the required US History credit or for elective credit. This course prepares the student to take the Advanced Placement U.S. History exam and is the first year preparation for the IB History HL exam.



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**253161 IB World Area Studies**

Grade Placement: 12

Prerequisite: United State History – IB

Credit: 1

This course concentrates on several topics relating to twentieth century history, such as the causes and effects of war, the rise of dictatorships, and the Cold War. Specific subjects studied include World Wars I and II, the Russian, the Mexican, and the Chinese Revolutions, Hitler, Stalin, Mao Tse-Tung, Fidel Castro, the Cuban Missile Crisis, and the Vietnam War. Because historiography is emphasized, students should anticipate substantial reading assignments from various noted historians of each period. The analysis of primary documents is promoted, along with high-level research skills. The Internal Assessment for this course is a 2000-word paper on a closely-defined historical question, which requires the use of the previously-mentioned research skills. This paper comprises 20% of the final IB History grade.

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**255061 Economics – IB**

Grade Placement: 11 - 12

Prerequisite: Junior or Senior IB Status

Credit: 1

This two-semester course includes content equivalent to college level courses in Principles of Macroeconomics and Principles of Microeconomics. IB Economics has a pronounced international approach and considers the current and future problems of less developed countries and their impact on the world economy.

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**Group 4: Experimental Sciences**

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**204261 Biology – IB SL**

Grade Placement: 11 - 12

Prerequisite: Biology (1 credit), Chemistry (1 credit)

Credit: 1.0

Biology IB is the study of general biological principles as well as more specialized biological sciences. Cytology, biochemistry, developmental biology, genetics, ecology, taxonomy, and various aspects of adaptation are integrated within the course. IB Biology SL students must keep a lab portfolio and submit it for external moderation. Students also participate in the IB Group 4 Project. This course prepares students for the IB Biology SL exam; however, students who are planning to take Biology HL will not take the Biology SL exam. (See counselor for grade point information.)

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**204281 Biology – IB HL**

Grade Placement: 12

Prerequisite: Previous prerequisites and IB Biology SL (1 credit)

Credit: 1.0 (.5 Biology, .5 Research &amp; Design)

IB Biology HL is a second year continuation of the first year of IB Biology SL. It builds to provide a deeper understanding and additional applications of topics covered in IB Biology SL. IB Biology HL students must keep a lab portfolio from both years. Students will take the IB Biology HL exam in May of their senior year. (See counselor for grade point information.)

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**205361 Chemistry – IB SL**

Grade Placement: 11 - 12

Prerequisite: Chemistry (1 credit), Biology (1 credit)

Credit: 1.0

Chemistry IB SL is a second year course of chemistry studying matter, its interactions and the energy that accompany matter. Some topics included are thermochemistry, chemical bonding, kinetics, equilibrium, electrochemistry and organics. IB Chemistry students must keep a lab portfolio and submit it for external moderation. IB Chemistry students must also participate in the IB Group 4 Project. This course prepares students for the Chemistry SL exam; however, students who are planning to take Chemistry HL will not take the Chemistry SL exam. (See counselor for grade point information.)

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**205381 Chemistry – IB HL**

Grade Placement: 12

Prerequisite: Previous prerequisites and Chemistry IB SL (1 credit)

Credit: 1.0 (.5 Biology, .5 Research &amp; Design)

IB Chemistry HL is a second year continuation of the IB Chemistry SL. It builds to provide a deeper understanding and additional applications of the topics covered in Chemistry SL. IB Chemistry HL students must keep a lab portfolio from both years and submit it for external moderation. This course prepares the students to take the IB Chemistry HL exam. (See counselor for grade point information.)

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**206061 IB Physics SL**

Grade Placement: 11 - 12

Prerequisite: Biology (1 credit), Chemistry (1 credit), Algebra I H and II - H and Geometry H

Credit: 1

IB Physics SL is a two semester sequential study of physical principles, which govern the behavior of matter. It includes mechanics, electricity, magnetism, thermodynamics, kinetic theory, electromagnetic radiation, optics, and atomic and nuclear physics. IB Physics students must keep a lab portfolio and submit it for external moderation. IB Physics students must also participate in the IB Group 4 Project. This course prepares students for the Physics SL exam; however, students who are planning to take Physics HL will not take the Physics SL exam. (See counselor for grade point information.)

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**206161 IB Physics HL**

Grade Placement: 12

Prerequisite: Previous prerequisites and 1 credit of IB Physics SL, 1 credit of Pre-Calculus

Credit: 1

IB Physics HL is a second year continuation of the first year of IB Physics SL. It builds to provide a deeper understanding and additional applications of the topics covered in the first year Physics IB SL. IB Physics HL is a basic introduction to AC current, quantum mechanics, nuclear physics, digital technology, with an expansion on modern physics with a section on modern communication. Students must build and submit a lab portfolio from both years for external moderation. This course prepares the student to take the IB Physics HL exam. (See counselor for grade point information.)

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**208261 Environmental Systems IB SL**

Grade Placement: 11 - 12

Prerequisite: Algebra I (1 credit), Biology (1 credit) and Chemistry (1 credit)

Credit: 1

The Environmental Systems IB SL course will 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 and/or preventing them.

Environmental Systems IB SL is interdisciplinary; it embraces a wide variety of topics from different areas of study. There are several major unifying constructs, or themes, that cut across the many topics included in the study of environmental science. This course will prepare the student to take the Environmental Systems SL exam.

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**Group 5: Mathematics****158061 IB Math Studies**

Grade Placement: 11 - 12

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

Credit: 1

IB Math Studies students study the following concepts: Three major trigonometry functions, statistics; probability, functions, logic, set theory, 3-D graphing and applications. There are several small projects and one major project related to application. IB Math Studies prepares student to take the IB Math Studies SL exam.

---

**155061 IH Pre-Calculus**

Grade Placement: 11

Prerequisite: Algebra II – H

Credit: 1

Major concepts studied: An in-depth study of functions, relations, graphing and applications, coordinate geometry, trigonometry, sequence and series, data analysis. This course is designed to prepare students for IB Math Methods and the IB Calculus courses.

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**158161 IB Calculus SL**

Grade Placement: 12

Prerequisite: Pre-Calculus, teacher approval and appropriate test scores

Credit: 1

IB Calculus SL is taught in conjunction with Calculus AB – AP (15915A). This course is the study of elementary functions; limits of a function; derivative; integral and techniques of integration; and applications of calculus to real-world problems in the fields of life science, business and economics, social science, physics, and engineering. Calculus SL students are assessed internally and must submit a portfolio. This course prepares students for the IB Math Methods SL exam and for the AP Calculus AB exam.

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**159061 IB Calculus HL**

Grade Placement: 12

Prerequisite: IB Pre-Calculus/Honors, teacher approval and appropriate test scores

Credit: 1

IB Calculus HL covers all the topics in Calculus AB, but is more extensive. Students cover the additional topics of vector functions, polar coordinates, and probability and statistics. IB Calculus students are also assessed internally by the IB Organization standards and students must submit a portfolio. This course prepares the student to take the IB Mathematics (Calculus) HL exam and for the AP Calculus AB exam.

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**Group 6: Arts and Electives**

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**456401 IB Art Design III**

Grade Placement: 11

Prerequisite: Art I

Credit: 1

IB Art Design III and IV are taken over two years to prepare students for the IB Art Higher level exam. IB Art Design III is designed for students who are seriously interested in the actual experience of creating and researching art. This course will be individually charted to meet the needs and interests of each student. IB Art is designed to include independent research along with instruction in advanced art techniques and media. This course is the first course necessary for preparation for the IB Art Higher level exam. The approximate supply cost is \$50.00.

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**456451 IB Art Design IV**

Grade Placement: 12

Prerequisite: IB Art Design III

Credit: 1

IB Art Design IV is the second year of IB Art. It is designed for students who are seriously interested in the actual experience of creating and researching art. This course will be individually charted to meet the needs and interests of each student. IB Art is designed to include independent research along with instruction in advanced art techniques and media. This course is the second course necessary for preparation for the IB Art Higher Level exam. The approximate supply cost is \$50.00.

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**401061 Computer Science 1 –  
IB SL**

Grade Placement: 11 - 12

Prerequisite: Algebra II

Credit: 1

What's Next? IB Computer Science 2 HL (if preparing for the IB Computer Science HL exam)

This course may be taught together with Computer Science 1- AP (40105A). This course serves as an introduction to computers and the study of managing and processing information. The emphasis is on solving real world problems by means of computer programming (software engineering). Students will learn thoroughly the JAVA programming language and apply those skills in exploring how computers work. Some topics covered include structures programming techniques, file management, data structures, classes, objects, graphics, debugging, hardware components, and social implications. Upon completion of the course the student will have created software such as a database or an animated graphics display. This course represents college level computer science. Students will have the option of taking the AP exam for which many colleges will grant up to 3 hours of college credit. IB students must maintain a dossier and submit it for external moderation. This course prepares IB students for the IB Computer Science SL exam and it is the first course which prepares students for the IB Computer Science HL exam.

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**402061 Computer Science 2 –  
IB HL**

Grade Placement: 12

Prerequisite: Algebra II, Computer Science I, and teacher approval

Credit: 1

This course may be taught together with Computer Science 2 - Honors. This course has five main goals: develop advanced software engineering skills in the C++ programming language; teach advanced data structures such as linked lists, trees, classes, and data files; expose students to the development and analysis of classic computer algorithms such as sorting, searching, recursion, and numerical analysis; recognize the ethical and social implications of computer use. This course represents college-level achievement in computer science for which most colleges will grant up to six hours of credit. Students will develop major software projects over topics such as databases, sorting, business applications, and graphics. IB students must maintain a dossier and submit it for external moderation. This course prepares the student to take the Advanced Placement exam and is the second year course necessary for the IB Computer Science HL exam.

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**Unique Course**

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**95246 IB Theory of  
Knowledge**

Grade Placement: 12

Prerequisite: Senior IB status

Credit: 1

This two-semester course is unique to the International Baccalaureate and mandatory for every candidate. In order to evaluate the validity of knowledge and ways of knowing, students are asked to look at each field of knowledge in the program and question both the process and product of their learning. While abstract discussion is certainly a part of such a course, the students are grounded in a brief scan of intellectual history as a part of their exploration. Assessment of student performance is based on oral presentation and written work.

# JOURNALISM

Plano ISD Course No.	Subject	Grade	Credits
106401	Yearbook I	9 – 12	1
106501	Yearbook II	10 – 12	1
106601	Yearbook III	11 – 12	1
106001	Journalism	11 – 12	1
106101	Newspaper Production I	11– 12	1
106201	Newspaper Production II	11 – 12	1
106701	Independent Study / Journalism	12	1

## **106401 Yearbook I**

Grade Placement: 9 – 12

Prerequisite: Application may be required

Credit: 1

*What's next?* Yearbook II

Yearbook I gives students the opportunity to create layouts, do copy work, and take photographs to prepare the high school yearbook.

## **106501 Yearbook II**

Grade Placement: 10 – 12

Prerequisite: Yearbook I and application may be required

Credit: 1

*What's next?* Yearbook III

Yearbook II is a continuation of Yearbook I. Students will be given the opportunity to do advanced layout and copy work for the high school yearbook. More extensive photographic work will be done.

## **106601 Yearbook III**

Grade Placement: 11 - 12

Prerequisite: Yearbook I and application may be required

Credit: 1

This course is designed to give students in-depth training in layout, copy writing, composition, and photography as well as to develop independent study projects.

## **106001 Journalism**

Grade Placement: 11 - 12

Prerequisite: None

Credit: 1

*What's Next?* Newspaper Production I or Newspaper Production II

This course is a general survey course of the mass media. Students will study the history of journalism, become familiar with careers available in the mass media, and learn the skills of reporting, news writing, and editing. Students will participate in extensive writing, revising, and editing.

## **106101 Newspaper Production I**

Grade Placement: 11 – 12

Prerequisite: Journalism I and/or application

Credit: 1

*What's next?* Newspaper Production II or III

This course is designed to give students practical experience in writing, editing, and producing publications. Class members will write, edit, and take photographs for the senior high newspaper.

## **106201 Newspaper Production II**

Grade Placement: 11 – 12

Prerequisite: Newspaper Production I and/or application

Credit: 1

*What's next?* Newspaper Production III

Students in this course will receive practical experience in writing, investigative reporting, editing, advertising, and processing the student newspaper and yearbook. They will develop independent study projects and/or receive on the job training in a particular phase of the mass media.

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**106701 Independent Study /  
Journalism**

Grade Placement: 12

Prerequisite: Approval of instructor

Credit: 1

This course offers the serious student of journalism the opportunity to conduct research, produce original work in print or some other media, develop an advanced skill, and study a specific area of interest.

## JUNIOR RESERVE OFFICER TRAINING (JROTC)

Plano ISD Course No.	Subject	Grade	Credits
953101	JROTC 1	9 – 10	1
953201	JROTC 2	9 – 10	1
953301	JROTC 3	11 – 12	1
953401	JROTC 4	12	1

### **953101 JROTC 1**

Grade Placement: 9 – 10

Prerequisite: None

Credit: 1

*What's Next?* JROTC 2

This course is designed for students who want to develop inherent leadership abilities. The focus of all instruction is on the enhancement of responsible citizenship and leadership. Instructional concepts are explored through both classroom theory and practice in a Leadership Lab. The theory provides students an opportunity to study the principles and traits of leadership; to learn the importance of positive self-concept; to develop basic managerial and leadership skills; to identify personality/physiological needs; and to learn the dynamics of group interaction. The Leadership Lab practical work places the student in a position to respond to training in a variety of positions within the organizational levels of the cadet battalion.

Through the Corps of Cadets, students learn to take and respond to orders; prepare for higher positions of responsibility; develop self-discipline, pride, bearing, self-control, and teamwork. Classroom subjects include a study of citizenship values using the Constitution, the Bill of Rights, American Military History; First Aid; and the various physical training aspects of Cadet Challenge. The course also emphasizes the development of communication skills, teaches the student how to study and why, how to take notes, how to do homework and how to become more self-confident. These subjects are combined with hands-on training in a structured environment with academic preparation for the future. Students may participate in such extracurricular activities as color guard, marksmanship team, drill team, honor guard, physical fitness team, and orienteering team. Several extracurricular competitions and other activities involving all members of the Corps of Cadets are conducted during the year.

**Students do not incur any military obligation by participating in JROTC courses.**

Elective credit is granted for each semester of JROTC unless the student chooses to use JROTC as a substitution for the state-required 1 credit physical education requirement.

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**953201 JROTC 2**

Grade Placement: 9 – 10

Prerequisite: JROTC 1

Credit: 1

*What's Next?* JROTC 3

This course is a continuation of JROTC 1 and is designed to place students in mid-level organizational leadership positions. It will reinforce all the previous leadership and citizenship training of course 953101 and further develops the students' abilities to motivate and lead other students. Classroom subjects include intermediate leadership, oral and written communication, military history, the roles of the military forces, first aid, drug abuse prevention, and citizenship. Practical work places the student in a mid-level position of responsibility and leadership. It emphasizes taking charge of and training groups of other students ranging from squad size (6-9 individuals) to platoon level groups (15-20 cadets). Students may elect to participate in extracurricular activities, as mentioned in the 953101 course description. **Students do not incur any military obligation by participating in the JROTC courses.**

Elective credit is granted for each semester of JROTC unless the student chooses to use JROTC as a substitution for the state-required 1 credit physical education requirement.

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**953301 JROTC 3**

Grade Placement: 11 – 12

Prerequisite: JROTC 2 (can be waived)

Credit: 1

*What's Next?* JROTC 4

This course is a continuation of JROTC 2, and places the student in a higher leadership echelon with increased responsibility and authority. It continues to reinforce all previous instruction in leadership and citizenship, as well as other selected subjects listed in the 9th and 10th grade courses. In most cases, the depth of theory and practical application exercises have been increased and broadened to create a more definitive and challenging group of experiences for the students. Students in the 11th grade may take this course without completing either the two previous courses, but would find it more rewarding by having participated in one or both. Leadership training of JROTC 953301 includes managerial techniques; aspects of mutual leader/subordinate respect; duties of the leader/manager; the building of teamwork, team spirit, and organizational morale; communication channels and flow; the problem solving process; staff supervision; staff functions and preparation for evaluations, inspections, and ceremonies. Students will be required to attend periodic officer and staff meetings, after school, to gain experience in the conduct of Corps organizational functions and business, as well as participate in the planning of upcoming functions. All extra-curricular activities and field trips are available to enrolled students. **Students do not incur any military obligation by participating in the JROTC courses.** Elective credit is granted for each semester of JROTC unless the student chooses to use JROTC as a substitution for the state-required 1 credit physical education requirement.

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**953401 JROTC 4**

Grade Placement: 12

Prerequisite: JROTC 3 (can be waived)

Credit: 1

This course is a continuation and culmination of all previous leadership training and places students in the highest leadership positions of the cadet organization. Enrollees are placed in senior level command or staff positions commensurate with their previously demonstrated potential and abilities. They are required to perform the functions of their position assignments in support of the cadet organization. All senior level students must be able to work independently, or as part of a command/staff team on the many tasks assigned to them. Practical "hands-on" training is emphasized and includes assuming command; planning, organizing, and delegating responsibilities and tasks to subordinates through operations orders, training outlines/schedules, and memorandums; developing all echelons of subordinates; developing systems of rewards/corrective actions; counseling; and building and nourishing teamwork. Enrolled students are eligible to participate in all extra-curricular activities and selected field trips. Senior cadets will be required to periodically conduct officer calls and staff meetings after school hours. Leadership and managerial experiences gained from participation in this course of instruction can easily be applied to the student's personal, academic, business and professional interactions. The course is designed to assist them in their next step in life, regardless of the particular path chosen. Additionally, emphasis is placed on applying to colleges, applying for scholarships, and understanding the process of college admittance. **Students do not incur any military obligation by participating in the JROTC courses.** Elective credit is granted for each semester of JROTC unless the student chooses to use JROTC as a substitution for the state-required 1 credit physical education requirement.

## LANGUAGES OTHER THAN ENGLISH

Plano ISD Course No.	Subject	Grade	Credits
500101	American Sign Language I	9 – 12	1
500201	American Sign Language II	10 – 12	1
500301	American Sign Language III	11 – 12	1
501601	Chinese I	9 – 10	1
502601	Chinese II	9 – 12	1
502631	Chinese II – H/PreAP	9 – 12	1
503631	Chinese III – H/PreAP	11 – 12	1
504651	Chinese IV AP	11 – 12	1
501101	French I	9 – 10	1
502101	French II	9 – 12	1
502131	French II – H/PreAP	9 – 12	1
502161	French II – IH	9 – 12	1
503131	French III – H/PreAP	10 – 12	1
503161	French III – IH	10 – 12	1
504151	French IV – AP	11 – 12	1
505131	French V – H	12	1
505161	French V – IB	12	1
501201	German I	9 – 10	1
502201	German II	9 – 12	1
502231	German II – H/PreAP	10 – 12	1
503231	German III – H/PreAP	11 – 12	1
504251	German IV - AP	12	1
501301	Latin I	9 – 10	1
502331	Latin II – H/PreAP	10 – 12	1
503351	Latin III – H/PreAP	11 – 12	1



<b>Plano ISD Course No.</b>	<b>Subject</b>	<b>Grade</b>	<b>Credits</b>
504351	Latin IV – AP	12	1
501401	Spanish I	9 – 12	1
502401	Spanish II	9 – 12	1
502431	Spanish II – H/PreAP	9 – 12	1
502461	Spanish II – IH	9 – 12	1
503401	Spanish III	9 – 12	1
503431	Spanish III – H/PreAP	10 – 12	1
503461	Spanish III – IH	10 – 12	1
504401	Spanish IV	11 – 12	1
504451	Spanish IV – AP	10 – 12	1
505451	Spanish V – AP	12	1

**If you accelerate in a language to the high schools or senior high schools, students must be aware of possible transportation issues.**

**500101 American Sign Language I**

Grade Placement: 9 – 12

Prerequisite: None

Credit: 1

*What's Next?* American Sign Language II

American Sign Language I is an introduction to the language and the culture. The main emphasis is on communication while developing receptive and productive skills. The student will be guided in recognizing the interrelationships of languages and will develop a cultural appreciation of the deaf world. The focus of this course will be on novice proficiency.

**500201 American Sign Language II**

Grade Placement: 10 – 12

Prerequisite: American Sign Language I

Credit: 1

*What's Next?* American Sign Language III

American Sign Language II continues to develop communicative skills. The focus is on mid-to high-novice proficiency. Expansion of vocabulary and grammatical structures continues. Contrast between English and sign language strengthens the language learning process. Culturally related activities will be explored.

**500301 American Sign Language III**

Grade Placement: 11 – 12

Prerequisite: American Sign Language I and American Sign Language II

Credit: 1

American Sign Language III is an intermediate level class for students who have successfully completed ASL 1 and 2. Students will continue to build upon their expressive and receptive language and vocabulary skills, learn to recognize and produce ASL sentences using grammatical features such as location classifiers, quantifiers, temporal aspect inflection, and spatial agreement. Students continue cultural exploration of the Deaf Community. This course builds on and expands the receptive and expressive skills introduced in ASL 2.

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**501601 Chinese I**  
Grade Placement: 9 – 10  
Prerequisite: None  
Credit: 1  
*What's Next?* Chinese II

Chinese I is an introduction to the Chinese world, its language and its people. The main emphasis is on oral skills while developing reading and writing skills. The student will be guided in recognizing the interrelationships of language and will develop a cultural appreciation of the Chinese world. The focus of the course is on novice proficiency.

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**502601 Chinese II**  
Grade Placement: 9 – 12  
Prerequisite: Chinese I  
Credit: 1  
*What's Next?* Chinese III

Chinese II continues to develop the oral skills with added emphasis on reading and writing skills. The focus is on the development of mid-to high-novice proficiency. Expansion of vocabulary and grammatical structures continues. Contrast between English and Chinese will strengthen the language learning process. Culturally related activities of selected Chinese speaking countries or regions will be explored. **Chinese III is not offered at the grades 9 – 10 campuses. Chinese III may not be taken until completion of the 10th grade.**

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**502631 Chinese II H/PreAP**  
Grade Placement: 9 – 12  
Prerequisite: Chinese I  
Credit: 1  
*What's Next?* Chinese III H

Chinese II continues to develop the oral skills with added emphasis on reading and writing skills. The focus is on the development of mid-to high-novice proficiency. Expansion of vocabulary and grammatical structures continues. Contrast between English and Chinese will strengthen the language learning process. Culturally related activities of selected Chinese speaking countries or regions will be explored. **Chinese III is not offered at the grades 9 – 10 campuses. Chinese III may not be taken until completion of the 10th grade.**

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**503631 Chinese III H/PreAP**  
Grade Placement: 11 – 12  
Prerequisite: Chinese II / Chinese II H/PreAP  
Credit: 1

Chinese III H continues to develop the oral and writing skills with added emphasis on reading. The focus is on the development of novice mid-to intermediate-low proficiency in speaking with increased emphasis on Advanced Placement exam preparation. Expansion of vocabulary and grammatical structures continues. Culturally-related activities of selected Chinese regions will be explored. **Chinese III is not offered at the grades 9 – 10 campuses. Chinese III may not be taken until completion of the 10th grade.**

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**504651 Chinese IV AP**  
Grade Placement: 11 – 12  
Prerequisite: Chinese III / Chinese III H/PreAP  
Credit: 1

Chinese IV AP prepares students to demonstrate Intermediate proficiency across the full range of language skills within a cultural frame of reference. The course will develop reading proficiency of authentic texts, fiction and non-fiction, listening proficiency of formal and colloquial authentic language, and writing proficiency in descriptive, expository, and persuasive styles. This course utilizes critical thinking, reading, and writing skills. The goal of this course is to prepare students to take the AP Chinese Language and Culture exam. This course is conducted predominately in Chinese.

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**501101 French I**  
Grade Placement: 9 – 10  
Prerequisite: None  
Credit: 1  
*What's Next?* French II or French II Honors

French I is an introduction to the French world, its language and its people. The main emphasis is on oral skills while developing reading and writing skills. The student will be guided in recognizing the interrelationships of languages and will develop a cultural appreciation of the Francophone world. The focus of this course is on novice proficiency.

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**502101 French II**

Grade Placement: 9 – 12

Prerequisite: French I

Credit: 1

*What's Next?* French III H/IH/PreAP

French II continues to develop the oral skills with added emphasis on reading and writing skills. The focus is on the development of mid-to high-novice proficiency. Expansion of vocabulary and grammatical structures continues. Contrast between English and French strengthens the language-learning process. Culturally related activities of selected French-speaking countries or regions will be explored.

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**502131 French II – H/PreAP****502161 French II – IH**

Grade Placement: 9 – 12

Prerequisite: French I

Credit: 1

*What's Next?* French III H/IH/PreAP

French II Honors is an expansion of French II. It is designed to provide opportunities for talented language students beyond those available in the regular French II Class. The course extends the Texas Essential Knowledge and Skills (TEKS). It stresses the development of low intermediate proficiency in oral skills, accurate comprehension of contemporary and cultural reading passages; it expands the use of grammatical constructions and vocabulary, and begins the development of expository composition. Culturally related activities of selected regions or countries will be explored.

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**503131 French III – H/PreAP****503161 French III – IH**

Grade Placement: 10 – 12

Prerequisite: French I and II

Credit: 1

*What's Next?* French IV – AP

French III Honors is an expansion of Language III. It is designed to provide tenth, eleventh and twelfth grade talented language students some opportunities beyond those offered in other language classes. The course extends the Texas Essential Knowledge and Skills (TEKS). It utilizes higher-level/critical thinking skills and focuses on the development of mid-intermediate proficiency in oral skills, comprehension of French literature and history, expository composition, and expanded use of grammar and vocabulary. The focus of this course is an intermediate proficiency.

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**504151 French IV – AP**

Grade Placement: 11 – 12

Prerequisite: French I, II and III

Credit: 1

This course meets the requirements of an intermediate college course in French studies. It stresses the development of fluency in oral skills, comprehension of French literature and history, expository composition, and expanded use of grammar. This course utilizes higher-level/critical-thinking skills and focuses on the development of accuracy and fluency. The student will have the opportunity to take the advanced placement examination at the conclusion of this course. The focus of this course is an intermediate proficiency. This course prepares the student to take the French Language AP exam. This course is conducted predominantly in French.

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**505131 French V – H**

Grade Placement: 12

Prerequisite: French I, II, III and IV

Credit: 1

This course meets the requirements of an intermediate college course in French. It stresses the development of fluency in oral skills, comprehension of French literature and history, expository composition, and expanded use of grammar. It utilizes higher-level/critical-thinking skills and focuses on the development of accuracy and fluency. The focus of this course is an intermediate to advanced proficiency. This course continues preparation for the student to take the French Language AP exam. This course is conducted predominantly in French.

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**505151 French V –IB (This course is only offered at Plano East.)**

Grade Placement: 12  
Prerequisite: French I, II, III and IV  
Credit: 1

French V IB meets the requirements of an intermediate college course in French. It stresses the development of fluency in oral skills, comprehension of French history and of French literary selections, expository composition and expanded grammatical structures. This course emphasizes higher level and critical thinking skills and focuses on the development of accuracy and fluency. In French V, students develop a deeper and broader understanding of the French language and culture. Internationalism, the awareness of oneself in relation to other cultures, is also explored in this course. The IB Higher Level exam in French holds the students to language standards that require at least five years of study. Assessments are comprised of both written and oral work. IB students in French V are prepared for both IB and AP (international and national) assessments.

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**501201 German I**

Grade Placement: 9 – 10  
Prerequisite: None  
Credit: 1  
*What's Next?* German II or German II H

German I is an introduction to the German world, its language and its people. The main emphasis is on oral skills while developing reading and writing skills. The student will be guided in recognizing the interrelationships of languages and will develop a cultural appreciation of the German-speaking world. The focus of this course is on low novice proficiency.

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**502201 German II**

Grade Placement: 9 – 12  
Prerequisite: German I  
Credit: 1  
*What's Next?* German III H/PreAP

German II continues to develop the oral skills with added emphasis on reading and writing skills. The focus is on the development of mid-to high-novice proficiency. Expansion of vocabulary and grammatical structures continues. Contrast between English and German strengthens the language learning process. Culturally related activities of selected German speaking countries or regions will be explored.

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**502231 German II – H/PreAP**

Grade Placement: 10 – 12  
Prerequisite: German I  
Credit: 1  
*What's Next?* German III H/PreAP

German II H is an expansion of German II. It is designed to provide opportunities for talented language students beyond those offered in the regular German II class. The course extends the Texas Essential Knowledge and Skills (TEKS). It stresses the development of novice proficiency in oral skills, accurate comprehension of contemporary and cultural reading passages; it expands the use of grammatical constructions and vocabulary and begins the development of expository composition. Culturally related activities of selected regions or countries will be explored.

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**503231 German III – H/PreAP**

Grade Placement: 11 – 12  
Prerequisite: German I and German II  
Credit: 1  
*What's Next?* German IV AP

German III H is an expansion of German III. It is designed to provide eleventh and twelfth grade talented language students' opportunities beyond those offered in other language classes. The course extends the essential elements. It utilizes high-level/critical thinking and focuses on the development of mid-intermediate proficiency in oral skills, comprehension of German literature and history, expository composition, and expanded use of grammar and vocabulary. The focus of this course is a novice to an intermediate proficiency.

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**504251 German IV – AP**

Grade Placement: 12  
Prerequisite: German I, II and III  
Credit: 1

This course meets the requirements of an intermediate college course in German Studies. It stresses the development of fluency in oral skills, comprehension of German literature and history, expository composition, and expanded use of grammar. This course utilizes higher-level/critical thinking and focuses on the development of accuracy and fluency. The focus of this course is an intermediate proficiency. This course prepares the student to take the German Language AP exam. This course is conducted predominantly in German.

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**501301 Latin I**

Grade Placement: 9 – 10  
Prerequisite: None  
Credit: 1  
*What's Next?* Latin II H/PreAP

Latin I is an introduction to the language and to the Romans who spoke it. Basic grammar, syntax, and vocabulary are discussed in connection with their Latin root forms; however, contemporary meanings and correct usage are emphasized. Mythology is viewed as an example of ancient religious beliefs, a reflection of Roman lifestyles, and a form of literature. The focus of this course is a novice proficiency in reading comprehension.

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**502331 Latin II – H/PreAP**

Grade Placement: 10 – 12  
Prerequisite: Latin I  
Credit: 1  
*What's Next?* Latin III H

Latin II H is designed to provide opportunities for talented language students beyond those available in the regular Latin II class. It extends the Texas Essential Knowledge and Skills (TEKS). It stresses the development of accurate reading of Latin literature and history. It expands the use of grammatical constructions and vocabulary, and begins the development of accurate translation. Language learning techniques will be developed. Culturally related activities of selected regions/countries will be explored. The focus of this course is a novice proficiency in reading comprehension.

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**503331 Latin III – H/PreAP**

Grade Placement: 11 – 12  
Prerequisite: Latin II H/PreAP  
Credit: 1  
*What's Next?* Latin IV AP

This course utilizes higher-level/critical-thinking skills, stresses the development of oral skills, comprehension and interpretation of authentic Latin texts and expands the use of grammar and vocabulary. It emphasizes stylistic analyses and comprehension of literacy techniques, and accurate reading and translation of original Latin literature. The focus of this course is an intermediate proficiency in reading comprehension.

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**504351 Latin IV AP**

Grade Placement: 11 – 12  
Prerequisite: Latin III H  
Credit: 1

This course utilizes higher-level/critical-thinking skills, stresses the development of oral skills, comprehension and interpretation of Virgil's Aeneid, comprehension, and expands the use of grammar and vocabulary. It emphasizes stylistic analyses, comprehension of literary techniques, and accurate reading and translation of original Latin literature. This course prepares the student to take the Latin AP exam.

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**501401 Spanish I**

Grade Placement: 9 – 12  
Prerequisite: None  
Credit: 1  
*What's Next?* Spanish II or Spanish II H/PreAP

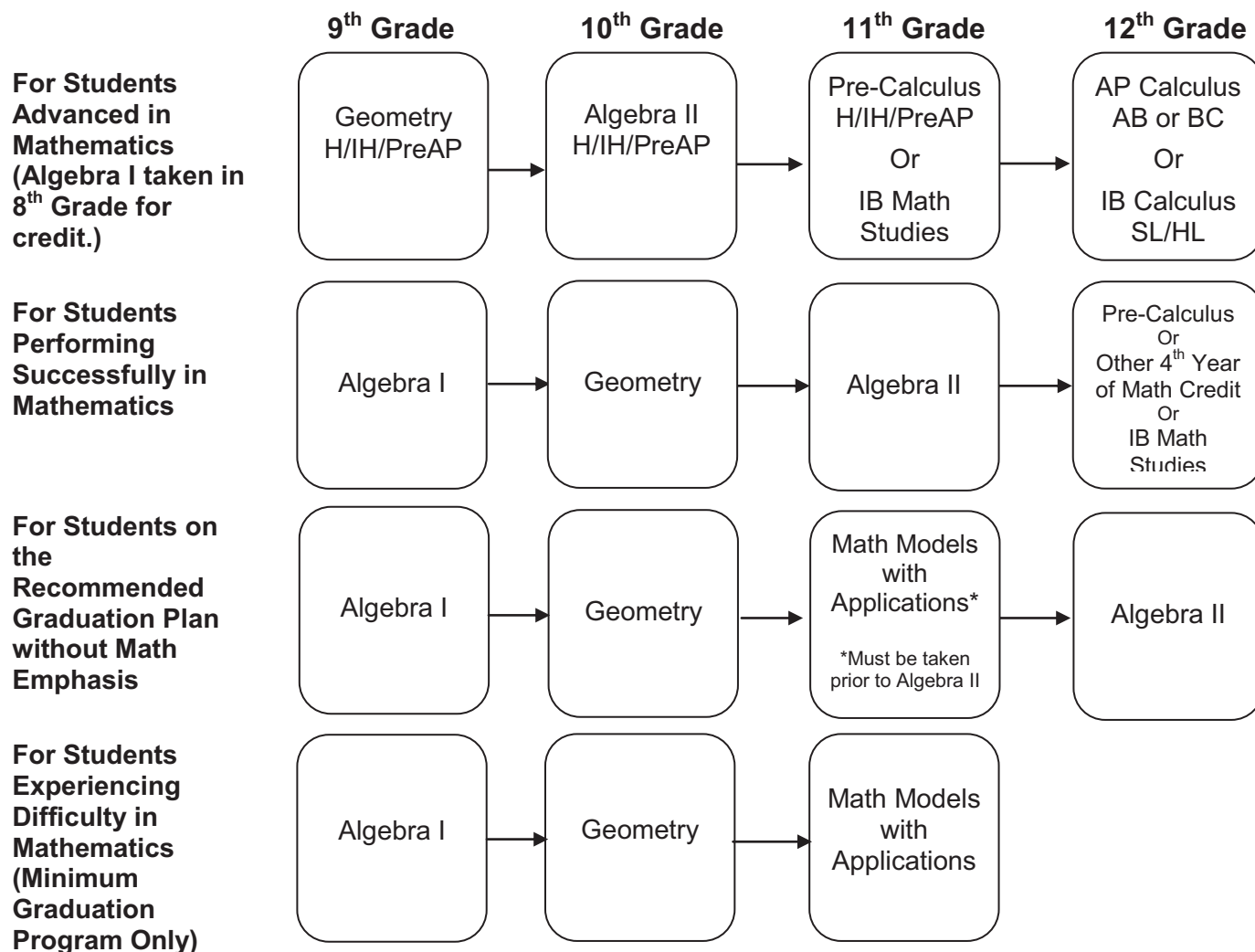
Spanish I is an introduction to the Spanish world, its language and its people. The main emphasis is on oral skills while developing reading and writing skills. The student will recognize the interrelationships of languages and will develop a cultural appreciation of the Hispanic world. The focus of this course is on low novice proficiency.



<p><b>502401 Spanish II</b>  Grade Placement: 9 – 12  Prerequisite: Spanish I  Credit: 1  <i>What's Next?</i> Spanish III or Spanish III IH/PreAP</p>	<p>Spanish II continues to develop the oral skills with added emphasis on reading and writing skills. The focus is on the development of mid novice to high-novice proficiency. Expansion of vocabulary and grammatical structures continues. Contrast between English and Spanish strengthen the language learning process. Culturally related activities of selected Hispanic countries or regions will be explored.</p>
<p><b>502431 Spanish II H/PreAP</b>  <b>502461 Spanish II IH</b>  Grade Placement: 9 – 12  Prerequisite: Spanish I  Credit: 1  <i>What's Next?</i> Spanish III or Spanish III IH/PreAP</p>	<p>Spanish II H/IH/PreAP is an expansion of Spanish II. The course extends the Texas Essential Knowledge and Skills (TEKS). It stresses the development of low-intermediate proficiency in oral skills, accurate comprehension of contemporary and cultural reading passages; it expands the use of grammatical constructions and vocabulary, and begins the development of expository composition. Culturally related activities of selected regions or countries will be explored. The focus of this course is novice proficiency.</p>
<p><b>503401 Spanish III</b>  Grade Placement: 10 – 12  Prerequisite: Spanish II or Spanish II H/IH/PreAP  Credit: 1  <i>What's Next?</i> Spanish IV or Spanish IV/V AP</p>	<p>Spanish III continues to develop the oral skills with added emphasis on reading and writing skills. The focus is on the development of novice mid-to intermediate-low proficiency. Expansion of vocabulary and grammatical structures continues. Contrast between English and Spanish strengthen the language learning process. Culturally related activities of selected Hispanic countries and regions will be explored.</p>
<p><b>503431 Spanish III PreAP</b>  <b>503461 Spanish III IH</b>  Grade Placement: 10 – 12  Prerequisite: Spanish I and II H/IH/PreAP  Credit: 1  <i>What's Next?</i> Spanish IV or Spanish IV AP</p>	<p>Spanish III H/IH/PreAP is an expansion of Spanish III. The course extends the Texas Essential Knowledge and Skills (TEKS). It utilizes high-level/critical thinking and focuses on the development of mid-intermediate proficiency in oral skills, comprehension of Spanish literature history, expository composition, and expands the use of grammar and vocabulary.</p>
<p><b>504401 Spanish IV</b>  Grade Placement: 11 – 12  Prerequisite: Spanish III or Spanish III IH/PreAP  Credit: 1</p>	<p>Spanish IV continues to develop the oral skills with added emphasis on reading and writing skills. The focus is on the development of intermediate-low proficiency. Expansion of vocabulary and grammatical structures continues. Contrast between English and Spanish strengthen the language learning process. Culturally related activities of selected Hispanic countries and regions will be explored. This course may not be offered on all campuses.</p>
<p><b>504451 Spanish IV – AP</b>  Grade Placement: 10 – 12  Prerequisite: Spanish III or Spanish III IH/PreAP  Credit: 1  <i>What's next?</i> Spanish V AP</p>	<p>This course stresses the development of fluency in oral skills, expository composition, and expanded use of grammar. This course utilizes higher-level/critical thinking and focuses on the development of accuracy and fluency. This course prepares students to take the Spanish Language AP exam. This course is conducted predominantly in Spanish.</p>
<p><b>505451 Spanish V AP</b>  Grade Placement: 12  Prerequisite: Spanish IV or Spanish IV AP/IB  Credit: 1</p>	<p>This course meets the requirements of Spanish collegiate studies. It stresses the development of fluency in oral skills, comprehension of Spanish literature and history, expository composition, and expanded use of grammar. It utilizes high-level/critical thinking and focuses on the development of accuracy and fluency. This course prepares the student to take the Spanish Literature AP exam. This course is conducted predominantly in Spanish.</p>

# Mathematics

## Possible Selections for 9 – 12 Mathematics



### Courses Offered:

#### 9<sup>th</sup> and 10<sup>th</sup> Grades

Algebra I  
Algebra I H/IH/PreAP  
Geometry  
Geometry H/IH/PreAP  
Algebra II  
Algebra II H/IH/PreAP  
Pre-Calculus H

#### 11<sup>th</sup> and 12<sup>th</sup> Grades

Geometry  
Algebra II  
Algebra II H/IH/PreAP  
Math Independent Study  
Pre-Calculus  
Pre Calculus H/IH/PreAP  
Math Models with Applications  
IB Math Studies  
AP Calculus AB  
AP Calculus BC  
IB Calculus SL  
IB Calculus HL  
Statistics AP  
Computer Science I AP  
Computer Science I IB SL

### Graduation Requirements:

**\* Minimum Program (3 credits):**  
Algebra I, Geometry, and a 3<sup>rd</sup> math

**\* Recommended and Distinguished:**  
Algebra I  
Geometry  
Algebra II  
4<sup>th</sup> Math

**NOTE:** Middle school credit is **NOT** granted until **BOTH** semesters are completed **AT** middle school. Students can **NOT** complete 1<sup>st</sup> semester at middle school and 2<sup>nd</sup> semester at summer school.



# MATHEMATICS

Plano ISD Course No.	Subject	Grade	Credits
152001	Algebra I	9 – 10	1
152031	Algebra I H/PreAP	9 – 10	1
152061	Algebra I IH	9 – 10	1
153001	Geometry	9 – 12	1
153031	Geometry – H/PreAP	9 – 10	1
153061	Geometry – IH	9 – 10	1
154001	Algebra II	10 – 12	1
154031	Algebra II H/PreAP	10 – 12	1
154061	Algebra II IH	10 – 12	1
153501	Mathematical Models with Applications	11 – 12	1
156001	Math Independent Study	11 – 12	1
155001	Pre-Calculus	11 – 12	1
155031	Pre-Calculus – H/PreAP	10 – 12	1
155061	Pre-Calculus – IH	10 – 12	1
159151	AP Calculus – AB	12	1
159251	AP Calculus – BC	12	1
158051	AP Statistics	11 – 12	1
401051	Computer Science I AP	11 – 12	1
401061	Computer Science I IB SL	11 – 12	1

## **152001 Algebra I**

Grade Placement: 9 – 10

Prerequisite: Eighth grade mathematics (for ninth grade students)

Credit: 1

*What's Next?* Geometry

This course is the study of the real number system and its various subsystems; algebraic representation, solution, and evaluation of problem situations; graphing as a tool to interpret linear representation, solution, and evaluation of problem situations; graphing as a tool to interpret linear relations, functions, and inequalities; quadratic equations; polynomials; rational expressions; and properties of an operations with square roots.

<b>152031 Algebra I – H/PreAP</b> <b>152061 Algebra I – IH</b>	<p>This course is designed for students who have exhibited superior mathematical ability and are ready to study high school level work. The content of this Algebra I course will include a study of the real numbers and their operations, the language of algebra, linear equations and inequalities, ratio, proportion and variations, polynomials, rational expressions, radicals, and quadratic relations. Students will receive high school credit and high school grade points.</p>
<p>Grade Placement: 9 – 10  Prerequisite: Teacher approval, a mastery of eighth grade mathematics Texas Essential Knowledge and Skills (TEKS)  Credit: 1  <i>What's Next?</i> Geometry or Geometry – H/IH/PreAP (high school)</p>	
<b>153001 Geometry</b>	<p>The course is the study of axiomatic systems; lines, segments, and angles; triangles; other polygons; circles; solid geometry; and measurement.</p>
<p>Grade Placement: 9 – 12  Prerequisite: Algebra I  Credit: 1  <i>What's Next?</i> Math Models or Algebra II</p>	
<b>153031 Geometry – H/PreAP</b> <b>153061 Geometry – IH</b>	<p>The student will study the same topics as defined for Geometry plus advanced topics in space geometry. Since this is an advanced course, students will be discussing problems and concepts not normally covered in a regular course. Higher levels of understanding such as relationships of ideas, analysis, synthesis, and evaluation will be stressed.</p>
<p>Grade Placement: 9 – 10  Prerequisite: Algebra I H/IH/PreAP  Credit: 1  <i>What's Next?</i> Algebra II or Algebra II H/IH/PreAP</p>	
<b>154001 Algebra II</b>	<p>This course is the study of mathematical structure, quadratic functions, quadratic relations, conic sections, systems of equations, and numerical methods and higher degree polynomials.</p>
<p>Grade Placement: 10 – 12  Prerequisite: Algebra I and Geometry  Credit: 1  <i>What's Next?</i> Pre-Calculus</p>	
<b>154031 Algebra II – H/PreAP</b> <b>154061 Algebra II – IH</b>	<p>Students will study the same topics as defined in Algebra II plus additional topics in sequences, series, and probability. In addition, more emphasis will be given to algebraic proof of theorems. Higher levels of understanding such as relationship of ideas, analysis, synthesis, and evaluation will be stressed. Since this is an Honors course, teachers and students will be discussing problems normally not covered in a regular course.</p>
<p>Grade Placement: 10 – 12  Prerequisite: Algebra I H/IH/PreAP, Geometry H/IH/PreAP  Credit: 1  <i>What's Next?</i> Pre-Calculus or Pre-Calculus H/IH/PreAP</p>	

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**153501 Mathematical Models with Applications**

Grade Placement: 11 – 12

Prerequisite: Algebra I and Geometry

Credit: 1

*What's Next?* Algebra II

Students will continue to build on Algebra I foundations as they expand their understanding through other mathematical experiences. Students use algebraic, graphical, and geometric reasoning to recognize patterns and structure, to model information, and to solve problems from various disciplines. Students use mathematical methods to model and solve real-life applied problems involving money, data, chance, patterns, music, design, and science. Students use mathematical models from algebra, geometry, probability, and statistics and connections among these to solve problems from a wide variety of advanced applications in both mathematical and nonmathematical situations. Students use a variety of representations (concrete, pictorial, numerical, symbolic, graphical, and verbal), tools, and technology (including calculators with graphing capabilities, data collection devices, and computers) to link modeling techniques and purely mathematical concepts and to solve applied problems. **This course may not be offered on all campuses. For the state recommended graduation plan, Math Models must be taken before Algebra II. This course does not count towards the Distinguished Achievement Plan.**

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**156001 Math Independent Study**

Grade Placement: 11 – 12

Prerequisite: Algebra II

Credit: 1

This course will concentrate on the following concepts: the three major trigonometry functions, statistics, probability, functions, logic, and data analysis. This course will provide a 4th year of math alternative to pre-calculus for students who experience limited success in Algebra II.

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**155001 Pre-Calculus**

Grade Placement: 11 – 12

Prerequisite: Algebra II and Geometry

Credit: 1

*What's Next?* AP Calculus AB, AP Statistics

This course is the study of relations, functions, and their graphs; polynomial functions; rational functions and functions involving radicals; exponential and logarithmic functions; circular trigonometric functions, their properties, and applications; complex numbers and polar coordinates; vectors and parametric equations; sequences and series; and second degree relations. Graphing calculators will be used extensively in this course. This course fulfills all the objectives of a traditional trigonometry course. In addition, this course prepares the students for calculus.

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**155031 Pre-Calculus – H/PreAP  
155061 Pre-Calculus – IH**

Grade Placement: 10 – 12

Prerequisite: Algebra II H/IH/PreAP and Geometry H/IH/PreAP

Credit: 1

*What's Next?* AP Calculus BC, AP Statistics

Pre-Calculus is an honors course, which combines the elements of Trigonometry, Elementary Analysis, and Analytic Geometry. This course is an in-depth study of the real and complex numbers, functions (polynomial, rational, exponential, logarithmic, circular, and trigonometric), vectors, sequences and series, and second-degree relations. Students who satisfactorily complete this course may take calculus.

<p><b>159151</b>    <b>AP Calculus AB</b>  <b>159251</b>    <b>AP Calculus BC</b></p>	<p><u>AP Calculus AB</u>: This course is the study of elementary functions; limit of a function; derivative; integral and techniques of integration; and applications of calculus to real-world problems in the fields of life science, business and economics, social science, physics, and engineering.</p> <p><u>AP Calculus BC</u>: Calculus BC represents one semester beyond Calculus AB. It covers all the topics in Calculus AB, but is more extensive. Students cover the additional topics of vector functions, polar coordinates, and Epsilon-delta proofs.</p> <p><b>Each course prepares the student to take the corresponding Advanced Placement exam.</b></p>
<p>Grade Placement: 12  Prerequisite: Pre-Calculus  Credit: 1</p>	
<p><b>158051</b>    <b>AP Statistics</b></p>	<p>AP Statistics is built around four main topics: exploring data, planning a study, understanding probability theory, and acquiring critical inferential reasoning skills. Students will actively participate in both short and long-term "hands-on" projects. This course prepares the student to take the Advanced Placement exam.</p>
<p>Grade Placement: 11 – 12  Prerequisite: Pre-Calculus or concurrently enrolled in Pre-Calculus  Credit: 1</p>	
<p><b>401051</b>    <b>Computer Science 1 – AP</b></p>	<p>This course serves as an introduction to computers and the study of managing and processing information. The emphasis is on solving real world problems by means of computer programming (software engineering). Students will learn thoroughly the Java programming language and apply those skills in exploring how computers work. Some topics covered include object-oriented techniques, file management, data structures, classes, objects, graphics, debugging, hardware components, and social implications. The course includes an in depth treatment of the AP Simulation Case Study. Students will have the option of taking the AP exam for which many colleges will grant up to 3 hours of college credit. The IB course contains additional topics to prepare students for the IB SL exam.</p>
<p><b>401061</b>    <b>Computer Science 1 – IB SL</b></p> <p>Grade Placement: 11 – 12  Prerequisite: Algebra II  Credit: 1  <i>What's next?</i> Computer Science 2 or Computer Science 2 Honors</p>	

## MISCELLANEOUS COURSES

Plano ISD Course No.	Subject	Grade	Credits
951501	Mapping for Academic and Personal Success (MAPS)	9 – 10	.5 – 1
951601	AVID I	9	1 – 1.5
951701	AVID II	10	1
951801	AVID III	11	1
951901	AVID IV	12	1
952691	Library Aide*	10, 12	0
952791	Office Aide*	10, 12	0
952301	Student Senate (Government & Leadership)	11 – 12	.5 – 1
952391	Student Senate*	11 – 12	0
952501	(PAL) Peer Assistance and Leadership	10, 12	1
952591	(PAL) Peer Assistance and Leadership*	12	0
952491	Academic Decathlon*	11 – 12	0
95550B	H.O.P.E.* (Helping Our Peers Excel)	9 – 12	0

\* These courses receive **no state credit** and grades **are not** calculated in the Grade Point Average (GPA).

### **951501 Mapping for Academic and Personal Success (MAPS)**

Grade Placement: 9 – 10

Prerequisite: None

Credit: .5 – 1

The course focuses on the skills and strategies necessary for students to make a successful transition into high school and an academic career. Students will explore the options available in high school, higher education, and the professional world in order to establish both immediate and long-range personal goals. After identifying their individual learning styles and abilities, students will build on these abilities by developing critical time management, organization and study skills. The course focuses on self-understanding, decision-making, resiliency, attitude, character education, and leadership to help students maximize personal achievement. Students will develop the specific strategies necessary to achieve their personal and professional goals. The course emphasizes proactive problem solving, self-determination, and independent thinking and learning skills. In addition, students will explore and experience collaboration as a tool for creative problem solving. As part of the goal setting and leadership activities, students may complete an outside community service learning experience in addition to class assignments.

<b>951601 AVID I/Communication Applications</b>	<p>The AVID course is designed to prepare students for success in postsecondary education. This is the beginning-level course which, when combined with AVID 2, 3 and 4, will provide support and skill development in areas specifically aligned with success in rigorous courses in the foundation content areas and in preparing students for success in college. Students in this course will also cover the Communication Applications TEKS. <u>At the end of the school year, students will have the opportunity to receive a 0.5 credit for Communication Applications through credit by exam.</u> A recommendation, application and interview are required. Students must be accepted into the AVID program.</p>
<p>Grade Placement: 9 Prerequisite: Recommendation, Application, Interview Required Credit: 1 – 1.5</p>	
<b>951701 AVID II</b>	<p>The AVID course is designed to prepare students for success in postsecondary education. This course will provide support and skill development in areas specifically aligned with success in rigorous courses and in preparing students for success in college. A recommendation, application and interview are required. Students must be accepted into the AVID program.</p>
<p>Grade Placement: 10 Prerequisite: AVID I or Recommendation, Application, Interview Required Credit: 1</p>	
<b>951801 AVID III</b>	
<p>Grade Placement: 11 Prerequisite: AVID II Credit: 1</p>	
<b>951901 AVID IV</b>	
<p>Grade Placement: 12 Prerequisite: AVID III Credit: 1</p>	
<b>952691 Library Aide (NO STATE CREDIT, NO GPA)</b>	<p>Students will receive experiences in various aspects of the operation of the library. A student may be an aide for a maximum of 2 semesters in four years.</p>
<p>Grade Placement: 10, 12 Prerequisite: Interview/selection Credit: 0</p>	
<b>952791 Office Aide (NO STATE CREDIT, NO GPA)</b>	<p>Students will receive experience in various campus offices or counselors' offices. A student may be an aide for a maximum of 2 semesters in four years.</p>
<p>Grade Placement: 10, 12 Prerequisite: Interview/selection Credit: 0</p>	
<b>952301 Student Senate (Government &amp; Leadership)</b>	<p>This course is designed to help students gain knowledge of leadership skills and an understanding of parliamentary procedure. A weekly agenda is followed during which these skills are practiced in planning and making decisions concerning numerous social and service activities organized by this governing body. The class is composed of twelve seniors and twelve junior representatives who are elected to serve from their respective Student Councils. <b>Students can only earn 1 credit in 2 years.</b></p>
<b>952391 Student Senate (NO STATE CREDIT, NO GPA)</b>	
<p>Grade Placement: 11 – 12 Prerequisite: Student body election Credit: 952301: .5 – 1 952391: 0</p>	

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**952501 (PAL) Peer Assistance and Leadership**

**952591 (PAL) Peer Assistance and Leadership  
(NO STATE CREDIT, NO GPA)**

Grade Placement: 10, 12

Prerequisite: Application and Interview

Credit: 952501: 1

952591: 0

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This course provides selected students an opportunity to work in a helping role with students on their own campus and/or with students from feeder middle schools and elementary schools, in order to facilitate a more positive school experience and more informed and responsible decision-making. PAL students will receive training in areas such as communication and listening skills, tutoring, group dynamics and other means of helping younger students deal with issue of concern to them. Students can only earn one credit in four years.

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**952491 Academic Decathlon  
(NO STATE CREDIT, NO GPA)**

Grade Placement: 11 – 12

Prerequisite: Approval of instructor

Credit: 0

Academic Decathlon is a unique national scholastic competition designed for high school students in a broad scope of academic areas. It provides an opportunity for students to experience the challenges of rigorous academic competition through participation in ten academic areas. Teamwork, communication, and self-assurance are attributes that are all essential elements found in Academic Decathlon. The purposes of the program are to encourage students to develop a greater respect for knowledge, to promote wholesome inter-school competition in academic areas of study and interest, to stimulate intellectual growth and achievement, and to encourage public interest and awareness of outstanding programs in our schools. The United States Academic Decathlon format includes students from all academic backgrounds. The final team to represent each of Plano's senior high schools consists of nine members; three students whose grade point average falls into the "C" or Varsity category, three in the "B" or Scholastic category, and three in the "A" or Honors category.

Plano ISD's talent pool from the three senior high schools participates in two district practice meets at a senior high school. The coaches work with students on a daily basis and at specified times after school. In late November/early December the final nine-member team from each senior high is selected. Team competition levels are regional, state, and national.

Academic Decathlon class – 7th period

Each senior high school's Academic Decathlon coaches and counselors work with students to rearrange students' class schedules, if possible. Other arrangements are handled on a per campus basis. Students are required to spend some weeknights and weekends for preparation for competition.



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**95550B H.O.P.E.(Helping Our Peers Excel) (NO STATE CREDIT, NO GPA)**

Grade Placement: 9 – 12

Prerequisite: Interview/selection

Credit: 0

H.O.P.E. is a peer-tutoring program that pairs up general education or special education students with students who are mentally or physically challenged. Peer tutors will assist these students one class period a day, for either a semester or the entire year, in a variety of classes, including strategic reading and math, history, science, electives or lunch. The peer tutor, in addition to helping the students with their class work, also develops a friendship with the student and assists the teacher with various tasks. In order to be a qualified peer tutor, students must meet the following requirements:

- Be responsible (no attendance problems)
- Possess at least average academic skills
- Have patience
- Be respectful (to teachers and fellow peers)

Interested students will be interviewed for the peer tutoring position before the end of the school year. If a student is chosen to be a peer tutor, he/she must be able to adjust their class schedule by giving up an elective. The Special Education Department will train all peer tutors as to the responsibilities for each individual they will be assisting.

# READING

Plano ISD Course No.	Subject	Grade	Credits
105101B	Academic Success (ACCESS)	9 – 12	.5
105101	Academic Literacy I	9 – 12	1
105201	Academic Literacy II	9 – 12	1
105301	Academic Literacy III	9 – 12	1
10320B	College Reading Applications	10 – 12	.5

## **105101B Academic Success (ACCESS)**

Grade Placement: 9 – 12

Prerequisite: 8<sup>th</sup> grade TAKS Reading scores of (728-763)

Credit: .5

This one-semester course is designed for students to build academic success in literacy to improve performance for college readiness/post-secondary readiness. Students acquire comprehension strategies, critical reading/thinking strategies, develop vocabulary, and explore inquiry in their reading; therefore, students become better prepared for college readiness and/or post-secondary success.

## **105101 Academic Literacy I**

Grade Placement: 9 – 12

Prerequisite: District qualifying criteria or teacher recommendation

Credit: 1

This year course is designed for students who need literacy strategies and skills in order to ensure success in high school and beyond.

Students who fail the state standard on Reading/ELA TAKS or fall below district criteria are required to take this course.

Academic Literacy I (first year) involves practicing literacy strategies for students to build success and become proficient in the areas of word analysis, vocabulary, reading fluency, written response, and critical thinking, therefore, preparing students for college readiness and/or post-secondary success.

## **105201 Academic Literacy II**

Grade Placement: 9 – 12

Prerequisite: Academic Literacy I

District qualifying criteria or teacher recommendation

Credit: 1

This second year course for literacy strategies is designed for students who need an additional year in literacy focus to ensure success in high school and beyond. Students who fail the state standard on Reading/ELA TAKS or fall below district criteria are required to take this course.

Academic Literacy II (second year) focuses on helping students grow into critical readers and develop different levels of literacy and inquiry for college readiness and/or post-secondary success.

## **105301 Academic Literacy III**

Grade Placement: 9 – 12

Prerequisite: Academic Literacy II

District qualifying criteria or teacher recommendation

Credit: 1

This third year course for literacy strategies is designed for students who need literacy strategies/skills to ensure passing state standards as well as success beyond high school. Students who fail the state standard on Reading/ELA TAKS or fall below district criteria are required to take this course.

Academic Literacy III (third year) emphasizes reading, writing, and critical inquiry, to further develop academic literacy for college readiness and/or post-secondary success.

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**10320B College Reading Applications**

Grade Placement: 10 – 12

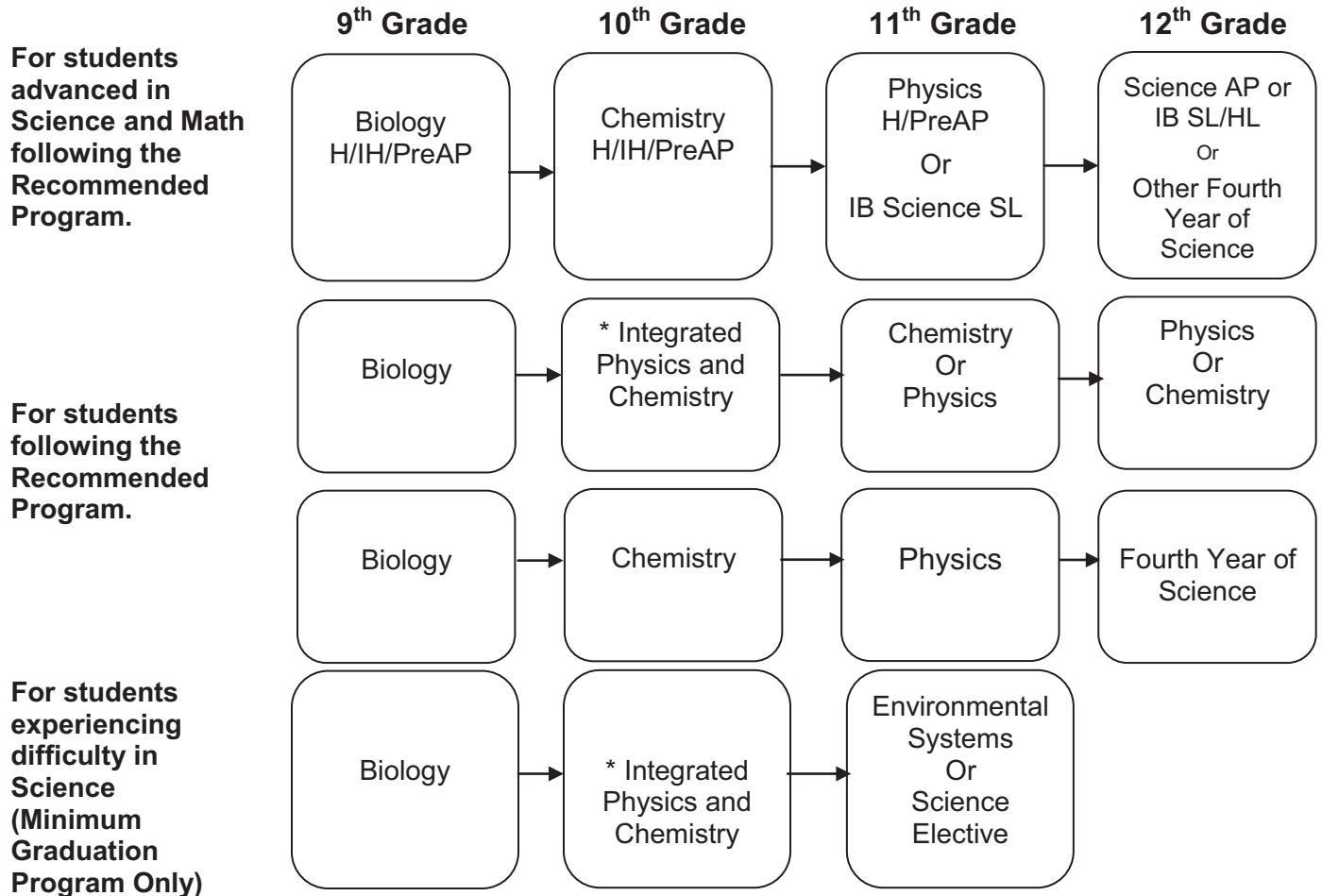
Prerequisite: Test scores at the 75th percentile on state and nationally normed reading and comprehension tests are recommended.

Credit: .5

College Reading Applications expands students' command of college-level reading and writing skills and is designed to help the college-bound reader gain vocabulary growth and increase critical reading/thinking skills. Students will have access to the College Board online materials for the SAT to practice and improve scores while getting state graduation credit.

# Science

## Recommended Selections for 9 – 12 Science



<b>Courses Offered:</b>	
<b>9<sup>th</sup> and 10<sup>th</sup> Grades</b> Biology Biology H/PreAP/IH Integrated Physics and Chemistry Chemistry Chemistry H/PreAP/IH Scientific Research and Design H	<b>11<sup>th</sup> and 12<sup>th</sup> Grades</b> Anatomy and Physiology Biology Biology AP or Biology IB SL/HL Chemistry Chemistry H/IB/PreAP Chemistry AP or Chemistry IB SL/HL Earth and Space Science Engineering Design & Problem Solving Environment Science AP Environmental Systems Environmental Systems IB SL Food Science Forensic Science Honors Scientific Research and Design Physics Physics IB SL/HL Physics H/PreAP Physics B – AP Physics C – AP

<b>Graduation Requirements</b>
<b>* Minimum Program:</b> Biology IPC 3 <sup>rd</sup> year of science  OR Biology Chemistry Physics  <b>* Recommended /Distinguished:</b> Biology Chemistry Physics 4 <sup>th</sup> year of science  <b>* IPC must be taken prior to Chemistry or Physics.</b>

## SCIENCE

Those science courses, which offer dissection as a means of instruction, will provide alternative assignments for those students and parents who have justifiable objections to dissection.

Plano ISD Course No.	Subject	Grade	Credits
201001	Integrated Physics and Chemistry (IPC)	9 – 10	1
204001	Biology	9 – 12	1
204031	Biology – H/PreAP	9 – 10	1
204061	Biology – IH	9	1
204101	Anatomy and Physiology	11 – 12	1
204151	Biology AP	11 – 12	1.5
204261	Biology IB SL	11 – 12	1
204281	Biology IB HL	12	1
205001	Chemistry	10 – 12	1
205031	Chemistry – H/PreAP	10 – 12	1
205061	Chemistry – IH	10	1
205151	Chemistry – AP	11 – 12	1.5
205361	Chemistry IB SL	11 – 12	1
205381	Chemistry IB HL	12	1
206001	Physics	11 – 12	1
206031	Physics – H/PreAP	11 – 12	1
206061	Physics – IB SL	11 – 12	1
206161	Physics – IB HL	12	1
206151	Physics B – AP	12	1
206251	Physics C - AP	12	1
206501	Engineering Design and Problem Solving	12	1
208201	Environmental Systems	11 – 12	1
208251	Environmental Science AP	11 – 12	1
208261	Environmental Systems IB SL	11 – 12	1
207501	Earth and Space Science	11 – 12	1
208001	Honors Scientific Research and Design	10 – 12	1 - 3
552251	Food Science	11 – 12	1
555401	Forensic Science	11 – 12	1

<p><b>201001</b>    <b><i>Integrated Physics and Chemistry</i></b></p>	<p>This course integrates the disciplines of physics and chemistry in topics such as the following: motion, waves, energy, transformations, properties of matter, changes in matter, and solution chemistry. The use of technology and laboratory investigation will be a primary focus in instruction. Student investigations will emphasize accurate observations, collection of data, data analysis, and the safe manipulation of laboratory apparatus and materials in the laboratory. This course must be taken prior to chemistry or Physics under the Recommended Plan. <b>IPC can not count towards graduation for the DAP program.</b></p>
<p>Grade Placement: 9 – 10 Prerequisite: None Credit: 1 <i>What's Next?</i> Biology or Biology Honors/IH/PreAP</p>	
<p><b>204001</b>    <b><i>Biology (first year)</i></b></p>	<p>Biology is the study of the structure, growth, and function of the life systems of selected organisms. This study will encompass historical contributions to biological concepts; energy production, transfer, and use in living systems; and the relationships of organisms with each other and with their environments. Student investigations emphasize accurate observations, collection of data, data analysis, and the safe manipulation of laboratory apparatus and materials in the field and the laboratory.</p>
<p>Grade Placement: 9 – 12 Prerequisite: None Credit: 1 <i>What's Next?</i> Integrated Physics and Chemistry (IPC), Chemistry, or Physics</p>	
<p><b>204031</b>    <b><i>Biology H/PreAP (first year)</i></b></p>	<p>The Biology H/IH/PreAP course offers students an in-depth study and observation of living organisms in the environment, prepared specimens, various ecosystems, and inherited traits. Student investigations emphasize accurate observations, collection of data, data analysis, and the safe manipulation of laboratory apparatus and materials in the field and the laboratory. <b>Students will complete an independent research project.</b></p>
<p><b>204061</b>    <b><i>Biology IH</i></b></p> <p>Grade Placement: 9 – 10 Prerequisite: Teacher recommendation Credit: 1 <i>What's Next?</i> Chemistry or Chemistry – H/IH/PreAP</p>	
<p><b>204101</b>    <b><i>Anatomy and Physiology</i></b></p>	<p>Anatomy and Physiology of Human Systems includes laboratory investigation and fieldwork using appropriate scientific inquiry. This hands-on course is a survey of the structures and functions of the human body and integrates the physics and chemistry concepts found in the body systems. In this course the student will investigate the body's responses to forces: maintenance of homeostasis, electrical interactions, transport systems, and energy processes.</p>
<p>Grade Placement: 11 – 12 Prerequisite: Biology (1 credit) and Chemistry (1 credit) Concurrent enrollment in Physics for 11<sup>th</sup> graders. Credit: 1 <i>What's Next?</i> Medical Science or Clinical Rotation or 4th year science</p>	
<p><b>204151</b>    <b><i>Biology AP (second year)</i></b></p>	<p>The Biology-AP is a two-hour course designed to be the equivalent of an introductory college-level course. Biology AP is the study of general biological principles as well as of the more specialized biological sciences. Cytology, biochemistry, developmental biology, genetics, ecology, taxonomy, and various aspects of adaptation are integrated within the course. Relationships and applications of concepts within and among the various sciences are explored. Laboratory investigations are an integral part of the course. This course prepares the student to take the Biology Advanced Placement exam. (See the counselor for GPA information.)</p>
<p>Grade Placement: 11 – 12 Prerequisite: Biology (1 credit), Chemistry (1 credit) Concurrent enrollment in Physics for 11<sup>th</sup> graders. Credit: 2.0 (1.5 AP Biology and 0.5 Honors Research and Design)</p>	

<p><b>204261    <i>Biology – IB SL</i></b>  Grade Placement: 11 - 12  Prerequisite: Biology (1 credit), Chemistry (1 credit)  Credit: 1.0</p>	<p>Biology IB is the study of general biological principles as well as more specialized biological sciences. Cytology, biochemistry, developmental biology, genetics, ecology, taxonomy, and various aspects of adaptation are integrated within the course. IB Biology SL students must keep a lab portfolio and submit it for external moderation. IB Biology students must also participate in the IB Group 4 Project. This course prepares students for the IB Biology SL exam; however, students who are planning to take Biology HL will not take the Biology SL exam. (See counselor for grade point information.)</p>
<p><b>204281    <i>Biology – IB HL</i></b>  Grade Placement: 12  Prerequisite: Previous prerequisites and IB Biology SL (1 credit)  Credit: 1.0 (.5 Biology, .5 Research &amp; Design)</p>	<p>IB Biology HL is a second year continuation of the first year of IB Biology SL. It builds to provide a deeper understanding and additional applications of topics covered in IB Biology SL. IB Biology HL students must keep a lab portfolio from both years. Students will take the IB Biology HL exam in May of their senior year. (See counselor for grade point information.)</p>
<p><b>205001    <i>Chemistry (first year)</i></b>  Grade Placement: 10 – 12  Prerequisite: Algebra I credit required and completion of IPC (Integrated Physics and Chemistry) or Biology  Credit: 1  <i>What's Next?</i> Biology AP/IB or Physics or Physics-H/IH/PreAP or Chemistry AP/IB</p>	<p>Chemistry is the study of the structure, composition, and behavior of matter. The course of study emphasizes the investigation of matter, its interactions, and the factors affecting the interactions. Chemistry is a laboratory-oriented course that stresses the observation of matter and its behavior, classification of matter, communication of data, measurement of chemical quantities, prediction of chemical phenomena, and manipulation of chemical investigations.</p>
<p><b>205031    <i>Chemistry H/PreAP (first year)</i></b>  <b>205061    <i>Chemistry IH</i></b>  Grade Placement: 10 – 12  Prerequisite: Algebra I (1 credit), Biology (1 credit), and Geometry (1 credit) are required.  Credit: 1  <i>What's Next?</i> Physics or Physics H/PreAP</p>	<p>The Chemistry-H/IH/PreAP course is designed to introduce the student to the qualitative and quantitative aspects of a first year chemistry program. An in-depth study of the mathematical applications will be stressed. The course will emphasize the theoretical concepts of molecular bonding, thermodynamics, kinetics, and equilibrium. The descriptive aspects of the periodic table will be dealt with throughout the course. <b>Students will complete an independent research project.</b></p>
<p><b>205151    <i>Chemistry AP (second year)</i></b>  Grade Placement: 11 – 12  Prerequisite: Chemistry (1 credit), Biology (1 credit)  Concurrent enrollment in Physics for 11<sup>th</sup> graders.  Credit: 2.0 (1.5 AP Chemistry and 0.5 Honors Research and Design)</p>	<p>Chemistry-AP is a two-hour course designed to be the equivalent of an introductory college-level course. Chemistry AP is a second year course of chemistry studying matter, its interactions, and energy of matter. Some topics included are thermochemistry, chemical bonding, kinetics, equilibrium, and electrochemistry. Laboratory investigation is an integral part of the course. This course prepares the student to take the Chemistry Advanced Placement exam. (See the counselor for GPA information.)</p>
<p><b>205361    <i>Chemistry – IB SL</i></b>  Grade Placement: 11 - 12  Prerequisite: Chemistry (1 credit), Biology (1 credit)  Credit: 1.0</p>	<p>Chemistry IB SL is a second year course of chemistry studying matter, its interactions and the energy that accompany matter. Some topics included are thermochemistry, chemical bonding, kinetics, equilibrium, electrochemistry and organics. IB Chemistry students must keep a lab portfolio and submit it for external moderation. IB Chemistry students must also participate in the IB Group 4 Project. This course prepares students for the Chemistry SL exam; however, students who are planning to take Chemistry HL will not take the Chemistry SL exam. (See counselor for grade point information.)</p>



<p><b>205381 Chemistry – IB HL</b>            Grade Placement: 12            Prerequisite: Previous prerequisites and Chemistry IB SL (1 credit)            Credit: 1.0 (.5 Biology, .5 Research &amp; Design)</p>	<p>IB Chemistry HL is a second year continuation of the IB Chemistry SL. It builds to provide a deeper understanding and additional applications of the topics covered in Chemistry SL. IB Chemistry HL students must keep a lab portfolio from both years and submit it for external moderation. This course prepares the students to take the IB Chemistry HL exam. (See counselor for grade point information.)</p>
<p><b>206001 Physics (first year)</b>            Grade Placement: 11 – 12            Prerequisite: Algebra I (1 credit) and Geometry (1 credit), 2 credits of science            Credit: 1  <i>What's Next?</i> Physics B -AP or Chemistry AP/IB or Biology AP/IB</p>	<p>Physics I is the study of matter and energy and their interactions. Students are introduced to fundamental concepts in the areas of mechanics, light, sound, heat, electricity, magnetism, and nuclear phenomena. Student investigations emphasize accurate observations, collection of data, analysis of data, and the safe manipulation of laboratory apparatus and materials.</p>
<p><b>206031 Physics Honors/PreAP (first year)</b>            Grade Placement: 11 – 12            Prerequisite: 2 credits of science, concurrent enrollment in Algebra II            Credit: 1  <i>What's Next?</i> Physics AP or Chemistry AP/IB or Biology AP/IB</p>	<p>Physics H/IH/PreAP is a two semester sequential study of physical principles, which govern the behavior of matter. It includes mechanics, electricity, magnetism, thermodynamics, kinetic theory, electromagnetic radiation, optics, and atomic and nuclear physics. In introducing fundamental physical concepts emphasis will be placed on the use of mathematics in formulating physical principles and in problem solving; thus a strong math background is necessary.  <b>Students will complete an independent research project.</b></p>
<p><b>206061 IB Physics IB SL (first year)</b>            Grade Placement: 11 – 12            Prerequisite: Algebra I – H and II - H and Geometry H, 2 units of science, concurrent enrollment in Algebra II            Credit: 1</p>	<p>IB Physics is a two semester sequential study of physical principles, which govern the behavior of matter. It includes mechanics, electricity, magnetism, thermodynamics, kinetic theory, electromagnetic radiation, optics, and atomic and nuclear physics. In introducing fundamental physical concepts emphasis will be placed on the use of mathematics in formulating physical principles and in problem solving; thus a strong math background is necessary. IB Physics students must keep a lab portfolio and submit it for external moderation. IB Physics students must also participate in the IB Group 4 Project. This course prepares the student to take the IB Physics SL exam.</p>
<p><b>206161 IB Physics HL (second year)</b>            Grade Placement: 12            Prerequisite: 1 unit of IB Physics SL, 2 credits of science, 1 credit of Pre-Calculus            Credit: 1</p>	<p>IB Physics HL (high level) is a second year continuation of the first year of IB physics (SL standard level). It builds to provide a deeper understanding and additional applications of the topics covered in the first year Physics IB SL. IB Physics HL is a basic introduction to AC current, quantum mechanics, nuclear physics, digital technology, with an expansion on modern physics with a section on modern communication. This course will require students to be assessed internally by the IB organization standards. Students must build and submit a lab portfolio from both years for external moderation. Physics IB HL students will also participate in a Group 4 Project. Students whom are enrolled in this course will not take the SL exam at the end of their junior year but will wait to take the Physics HL exam in May of their senior year.</p>

<p><b>206151</b>    <b>Physics B-AP (second year)</b></p>	<p>Physics B-AP covers topics in mechanics, electricity, thermodynamics, kinetic theory, waves, optics, and modern physics. The development of problem-solving ability for college-bound students in life science, pre-medicine and some applied sciences or engineering is emphasized. It is assured that the student is familiar with algebra and trigonometry and has successfully completed first year physics with good grades. An examination will be available upon the conclusion of required material for possible advanced placement in college. This course prepares the student to take the Advanced Placement exam.</p>
<p>Grade Placement: 12 Prerequisite: Physics (1 credit) and an uninterrupted mathematics program Credit: 1</p>	
<p><b>206251</b>    <b>Physics C-AP (second year)</b></p>	<p>This is a calculus-based, second year course in physics. Physics C-AP cover topics in the area of mechanics and includes kinematics, Newton's Laws, friction, circular motion, momentum, energy and work, torque, rotation, gravitation, and simple harmonic motion. The use of calculus in problem solving is introduced. The second semester is devoted to a study of electricity and magnetism, and calculus is used freely. Either or both parts (Mechanics, Electricity and Magnetism) of the Advanced Placement C exam may be taken. This course prepares the student to take the Advanced Placement exam.</p>
<p>Grade Placement: 12 Prerequisite: Physics (1 credit) and an uninterrupted mathematics program Concurrent enrollment in Calculus-AP. Credit: 1</p>	
<p><b>206501</b>    <b>Engineering Design and Problem Solving</b></p>	<p>Engineering Design and Problem Solving introduces students to what engineering is, what engineers do, and how engineering shapes the world around them. This is a design-based course, where students will learn the concepts of engineering design and problem solving by completing a series of projects throughout the year. The intention of this course is to teach engineering design through a practical and real world approach to problem solving. <b>This course will satisfy the fourth year science requirement.</b></p>
<p>Grade Placement: 12 Prerequisite: Geometry, Algebra II, Biology, Chemistry, and Physics. Credit: 1.0</p>	
<p><b>208201</b>    <b>Environmental Systems</b></p>	<p>The Environmental Systems course will focus on the study of the environment with emphasis on ecology and natural resources. The current energy situation will be studied, and recycling of natural resources will be evaluated. Emphasis on people and society, including cultural perspectives and pollution problems will be made. Field trips, laboratory experiences, group discussions, and other special activities will be planned.</p>
<p>Grade Placement: 11 – 12 Prerequisite: 2 credits of high school science (Biology and IPC or Chemistry) Concurrent enrollment in Physics for 11<sup>th</sup> graders. Credit: 1</p>	
<p><b>208251</b>    <b>Environmental Science AP</b> <b>208261</b>    <b>Environmental Systems IB SL</b></p>	<p>The Environmental Science AP and Environmental Systems IB SL courses will 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 and/or preventing them.</p> <p>Environmental Science AP and Environmental Systems IB SL are interdisciplinary and embrace a wide variety of topics from different areas of study. There are several major unifying constructs, or themes, that cut across the many topics included in the study of environmental science. This course prepares the student to take Advanced Placement exam.</p>
<p>Grade Placement: 11 – 12 Prerequisite: Algebra I (1 credit), Biology (1 credit) and Chemistry (1 credit) Concurrent enrollment in Physics for 11<sup>th</sup> graders. Credit: 1</p>	

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**207501 Earth and Space Science**

Grade Placement: 11 – 12

Prerequisite: 3 years of science and three years of mathematics. The third year of science and math can be taken concurrently with Earth and Space Science.

Concurrent enrollment in Physics for 11<sup>th</sup> graders.

Credit: 1

Earth and Space Science is based on Earth's system in space and time. The approach has three themes of Earth in space and time, solid Earth, and fluid Earth. In each theme are included the strands of systems, energy and relevance. Natural and human events and their effect on Earth's systems will be studied within the context of the three themes and strands.

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**208001 Honors Scientific Research and Design**

Grade Placement: 10 – 12

Prerequisite: Approval of instructor through application, one credit of biology or Biology Honors/IH/PreAP (1 credit), concurrent enrollment in honors science

Credit: 1 - 3

Students will explore science and become acquainted with the scientific community, improve fundamental research skills, apply statistical analysis, and enhance oral and visual presentation techniques. Each student will be required to develop his/her own independent science research project and will learn how to structure, organize, publish, and present the project in one or more formal presentations to a panel of judges. It is required that all student independent research projects be judged.

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**552251 Food Science**

Grade Placement: 11 – 12

Prerequisite: Biology, Chemistry and Physics are required. Principles of Hospitality & Tourism is recommended.

Concurrent enrollment in Physics for 11<sup>th</sup> graders.

Credit: 1 (4<sup>th</sup> science credit)

*What's next?* Culinary Arts

Food Science students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Food Science is the study of the nature of foods, the causes of deterioration, the principles underlying food processing and the improvement of foods for the consuming public.

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**555401 Forensic Science**

Grade Placement: 11 – 12

Prerequisite: Biology, Chemistry, Physics and Law Enforcement I

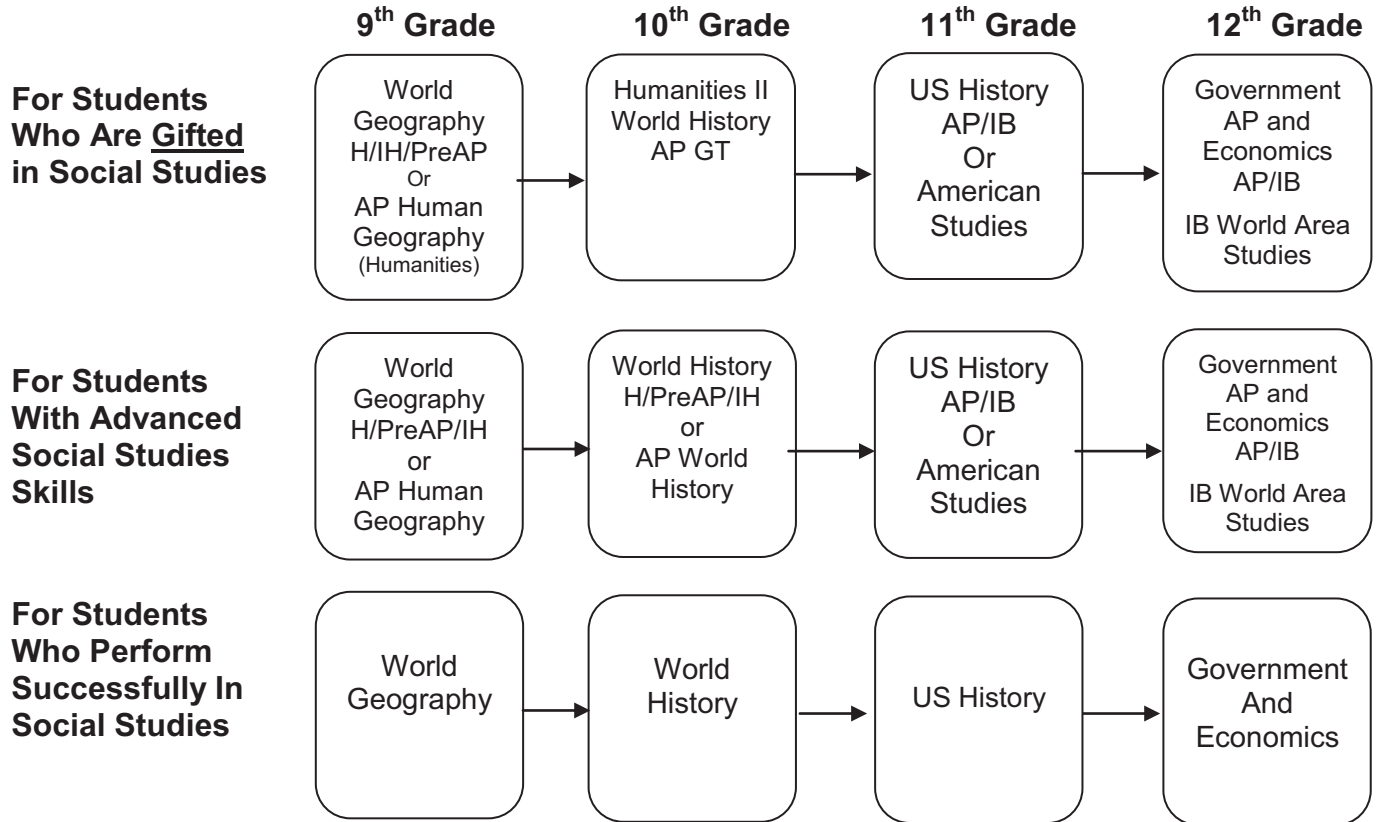
Concurrent enrollment in Physics for 11<sup>th</sup> graders.

Credit: 1 (4<sup>th</sup> science credit)

This course uses a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide and the psychology of criminal behavior. Students will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection, and scientific procedures used to solve crimes. Using scientific methods, students will collect and analyze through case studies and simulated crime scenes such as fingerprint analysis, ballistics, and blood spatter analysis. Students will learn the history, legal aspects and career options for forensic science. A minimum of 40% of class time will be spent in laboratory work and field investigations.

# Social Studies

## Recommended Selections for 9 – 12 Social Studies



Students may take two (2) social studies courses simultaneously.

<b>Courses Offered:</b>	<b>Graduation Requirements</b>
<p><b>9<sup>th</sup> and 10<sup>th</sup> Grades</b></p> <ul style="list-style-type: none"> <li>World History</li> <li>World History H/PreAP/IH</li> <li>World History AP</li> <li>World Geography</li> <li>World Geography H/PreAP/IH</li> <li>Human Geography AP</li> <li>Humanities I (Eng. I PreAP credit)</li> <li>Humanities II (AP World History credit)</li> <li>European History AP</li> </ul>	<ul style="list-style-type: none"> <li>1 Credit World Geography</li> <li>1 Credit World History</li> <li>1 Credit US History</li> <li>.5 Credit Government</li> <li>.5 Credit Economics</li> </ul>
<p><b>11<sup>th</sup> and 12<sup>th</sup> Grades</b></p> <ul style="list-style-type: none"> <li>US History</li> <li>US History AP/IB</li> <li>American Studies</li> <li>World History</li> <li>World Geography</li> <li>Contemporary World Issues</li> <li>US Government</li> <li>US Government AP</li> <li>Comparative Government AP</li> <li>Economics</li> <li>Economics AP – MACRO</li> <li>Economics AP – MICRO</li> <li>Economics IB</li> <li>European History AP</li> <li>Psychology</li> <li>Psychology AP</li> <li>Sociology</li> <li>Sociology H</li> <li>IB World Area Studies</li> </ul>	

## SOCIAL STUDIES

Plano ISD Course No.	Subject	Grade	Credits
253001	World Geography Studies	9 – 12	1
253031	World Geography Studies – H/PreAP	9 – 10	1
253061	World Geography Studies – IH	9 – 10	1
253251	Human Geography – AP	9 – 10	1
252001	World History Studies	9 – 12	1
252031	World History Studies – H/IH/PreAP	9 – 10	1
252151	World History – AP	10	1
101041	Humanities I English I GT (Pre-AP English I) Prerequisite: Identification / Selection as Gifted	9	1
252041	Humanities II World History AP GT (AP World History) Prerequisite: Identification / Selection as Gifted	10	1
25220B	Contemporary World Issues	11 – 12	.5
251001	United States History	11 – 12	1
251051	United States History – AP	11 – 12	1
S14251	American Studies	11	2
25400B	United States Government	11 – 12	.5
25405B	United States Government – Government and Politics – AP	11 – 12	.5
25415B	Government – Comparative – AP	11 – 12	.5
25500B	Economics, with Emphasis on the Free Enterprise System and its Benefits	11 – 12	.5
25505B	Economics, with Emphasis on the free Enterprise System and its Benefits – AP (MACRO)	11 – 12	.5
25515B	Economics, with Emphasis on the free Enterprise System and its Benefits – AP (MICRO)	11 – 12	.5
25700B	Psychology	11 – 12	.5
25705B	Psychology – AP	11 – 12	.5
25800B	Sociology	11 – 12	.5
25803B	Sociology – H	11 – 12	.5
256051	European History - AP	10 – 12	1

<b>253001</b> <b>World Geography Studies</b>	This course introduces students to the physical and human world around them and helps them develop the means to examine that world. Facts and information on physical, cultural, political, and economic geography as well as abundant opportunity to refine the content through the exercise of map and globe skills, reading skills, and thinking skills will be provided to the student.
Grade Placement: 9 – 12 Prerequisite: None Credit: 1 <i>What's Next?</i> World History Studies, World History H/PreAP, World History AP	
<b>253031</b> <b>World Geography Studies – Honors / PreAP</b>	Honors/IH/PreAP World Geography is designed for mastery of the Texas Essential Knowledge and Skills (TEKS) as well as extension beyond this mastery. In this course, critical thinking and analytical skills will be utilized in various projects including interpretation of primary and secondary source materials. Students will use their knowledge of spatial relationships, systematic physical and human processes and the interaction between people and their environment to make intelligent decisions as citizens.
<b>253061</b> <b>World Geography Studies - IH</b>	
Grade Placement: 9 – 10 Prerequisite: None Credit: 1	
<b>253251</b> <b>Human Geography AP</b>	This course introduces students to the systematic study of patterns and processes that have shaped the physical and human world. Students will also learn and apply the methods and tools geographers use in their science and practice. This course prepares the student to take the Advanced Placement examination and may be used to fulfill the World Geography Studies requirement for graduation. If a student has earned a credit in World Geography Studies, enrollment in the Human Geography AP course will not count as a credit.
Grade Placement: 9 – 10 Prerequisite: None Credit: 1	
<b>252001</b> <b>World History Studies</b>	This course includes a survey of ancient, medieval and modern times with an emphasis placed upon modern times. A background of world events will be presented to the student to help understand current events and world problems. Both Western and Non-Western areas of the world will be studied.
Grade Placement: 9 – 12 Prerequisite: None Credit: 1	
<b>252031</b> <b>World History Studies – H/IH/PreAP</b>	Honors/IH/PreAP World History is designed for mastery of the Texas Essential Knowledge and Skills as well as extension beyond this mastery. The students will be expected to use primary source materials extensively. Additionally, emphasis will be given to the study of prehistoric times and the modern era. Research, critical thinking, and writing skills will be developed through creative projects and activities.
Grade Placement: 9 – 10 Prerequisite: None Credit: 1 <i>What's next?</i> US Government or Economics or US Government-H or Economics-H	
<b>252151</b> <b>World History – AP</b>	This course may be taken to fulfill the World History requirement for graduation. This course focuses primarily on the past thousand years of the global experience. It emphasizes the empires of China and Mesoamerica; the expansion of Islam; the period of new political credits in Africa and Europe; and social, cultural, and economic developments around the world. This course prepares the student to take the Advanced Placement examination. If a student has earned a credit in World History Studies or World History Studies H/IH/PreAP, enrollment in World History AP course will not count as a credit.
Grade Placement: 10 Prerequisite: None Credit: 1 <i>What's next?</i> US History – AP	



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**101041     *Humanities I English I  
GT (Pre-AP English I)***

Grade Placement: 9  
Prerequisite: Identification / Selection as Gifted  
Credit: 1

**252041     *Humanities II World  
History AP GT (AP  
World History)***

Grade Placement: 10  
Prerequisite: Identification / Selection as Gifted  
Credit: 1  
*What's next?* American Studies;  
Advanced Placement and International  
Baccalaureate courses

Humanities I English I GT and Humanities II World History AP GT are courses that provide gifted students with opportunities not available through regular or advanced classes. The courses combine Pre-AP English I with AP World History in a two-year interdisciplinary spiral. The basic content is a historical study of the commonalities of the fine arts, including literature, the visual arts, architecture, and music. Humanities I focuses on the period up to the Renaissance; Humanities II examines the period from the Renaissance to modern times. Students will learn and practice the craft of writing through various products, including AP style writing. Literature from a variety of world traditions will also be a key focus. Ninth and tenth grade students will sit in the same class while earning credit in separate courses; ninth graders will earn Pre-AP English I credit while tenth graders earn AP World History credit. At the conclusion of Humanities II, students can sit for the AP World History to possibly earn college credit. **Humanities does NOT fulfill the fine arts requirement for graduation and is not recognized as a fine arts course by TEA.**

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**25220B     *Contemporary World  
Issues***

Grade Placement: 11 – 12  
Prerequisite: None  
Credit: .5

This elective course will emphasize the present and future world. It will be as relevant as today's events. As issues emerge, the historical, geological, political, and economic context of the area and issue involved will be studied. Thus, this course should provide an excellent vehicle for further development and application of geographic knowledge and skills. Also, through reading and reference skills, students will be required to understand how a country such as the US is organized to respond to world issues and events, making citizenship in an interdependent world a major focus. (This course is not appropriate for students with reading difficulties.)

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**251001     *United States History***

Grade Placement: 11 – 12  
Prerequisite: Cannot be taken until after 10th grade  
Credit: 1

Content of this required course in United States History includes significant events, issues, and problems after the period of Reconstruction, emphasizing present-day issues which have their roots in the past. This course builds upon knowledge and concepts, acquired in the first course (8th grade). The course includes historical concepts, citizenship principles and skills necessary for the study of US History.

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**251051     *United States History –  
AP***

Grade Placement: 11 – 12  
Prerequisite: Cannot be taken until after 10th grade  
Credit: 1

The AP US History course is a college-level course that explores US history from the Colonial Era through the present. Cultural diversity, the role of minorities, and the impact of women on the development of American history will be a major focus. In addition to the independent reading of the survey text, this course requires analytical reading and analysis of primary source documents, scholarly works, and historical research. Students will be required to synthesize the information in both document-based essays and standard essay formats. Students who enroll in AP US History will have the opportunity to take the Advanced Placement examination at the conclusion of the course and earn college credit for their work. The student may take this course for the required US History credit.



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**S14251 American Studies  
(English III AP LANG  
and AP US History )**

Grade Placement: 11

Prerequisite: None

Credit: 2

*What's next?* The Human Experience: Culture,  
Media and Perception

American Studies combines AP US History and English III AP Language to create a daily two hour cultural experience enabling students to simultaneously explore the connections between literature and history. Students will explore the history of the United States with special emphasis placed on the study of rhetorical styles and structures of important historical documents and readings. This course will also have focused emphasis on the cultural accomplishments as manifested in art, architecture, literature, music, and other visual media. Students will learn and practice the craft of writing through various products, specifically focused on the essay formats necessary for success on both the AP US History and AP English Language exams. US Literature of all genres will be incorporated into the curriculum within the structure of the historical study, and used as a method of enhancing the depiction of historical time periods. At the culmination of the class, students can take both the AP US History and the AP English Language exams in the hopes of earning college credit.

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**25400B United States  
Government**

Grade Placement: 11 – 12

Prerequisite: Cannot be taken until after 10th  
grade

Credit: .5

United States Government will assist students in acquiring knowledge of the structure, functions, and development of our system of government. The course will analyze the political institutions, processes, and civic values inherent in our political system and provide students the opportunity to develop and apply the participatory skills needed to carry out civic responsibilities and exercise their rights as citizens. It will also provide students the opportunity to analyze and compare political institutions, processes, and civic values of the United States with those of other political systems as well as opportunities to develop appropriate democratic values and support for the American free enterprise system.

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**25405B United States  
Government – Politics  
– AP**

Grade Placement: 11 – 12

Prerequisite: None

Credit: .5

The Advanced Placement course in American Government is designed to give students a critical perspective on politics and government in the United States. This course involves both the studies of general concepts used to interpret American politics and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs, and ideas that make up the American political reality. The student will have the opportunity to take the Advanced Placement examination at the conclusion of the course. This course may be used to fulfill the US Government requirement for graduation. This course prepares the student to take the Advanced Placement exam.

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**25415B Comparative  
Government – AP**

Grade Placement: 11 – 12

Prerequisite: None

Credit: .5

This course is designed to help students gain knowledge of the world's diverse political structures and practices. It encompasses the study of both specific countries and of general concepts used to interpret the key political relationships found in almost all-national politics. This course will NOT fulfill the U. S. Government requirement for graduation. This course prepares the student to take the Advanced Placement exam. This course may not be offered on all campuses.

<p><b>25500B</b>    <b><i>Economics, with Emphasis on the Free Enterprise System and Its Benefits</i></b></p>	<p>Economics is the study of how people and countries deal with the problem of scarcity--not enough goods and services to satisfy everyone's wants and needs. To understand this problem, students will study the market system, American business organizations, supply and demand, money and banking system, the national economy, international trade, and other economic systems.</p>
<p>Grade Placement: 11 – 12 Prerequisite: Cannot be taken until after 10th grade Credit: .5</p>	
<p><b>25505B</b>    <b><i>Economics, with Emphasis on the Free Enterprise System and Its Benefits – AP (MACRO)</i></b></p>	<p><u>AP Macroeconomics</u> This course is designed to give students an understanding of the principles of economics that apply to an economic system. The content will include analysis of economic concepts; measurement of economic performance; national income and price level determination; financial sector; inflation; unemployment and stabilization policies; economic growth and productivity; and international trade and finance. Students will have the opportunity to take the Advanced Placement examination at the conclusion of the course. This course may fulfill the graduation requirement for Economics.</p>
<p><b>25515B</b>    <b><i>Economics, with Emphasis on the Free Enterprise System and Its Benefits – AP (MICRO)</i></b></p>	<p><u>AP Microeconomics</u> This course is designed to give students an understanding of the principles of economics that apply to the functions of individual decision-makers, both consumers and producers, within the economic system. The content will include analysis of economic concepts; nature and function of product markets; factor markets, market failure and the role of government. Students will have the opportunity to take the Advanced Placement examination at the conclusion of the course. This course may fulfill the graduation requirement for Economics.</p>
<p>Grade Placement: 11 – 12 Prerequisite: None Credit: .5</p>	
<p><b>25700B</b>    <b><i>Psychology</i></b></p>	<p>This course will introduce the student to the science of psychology with emphasis on human behavior. Content of the course will include the study of the facts involved in learning and thinking, intelligence, human development, personality theories, defense mechanisms, abnormal behavior and treatment, and careers in psychology.</p>
<p>Grade Placement: 11 – 12 Prerequisite: None Credit: .5</p>	
<p><b>25705B</b>    <b><i>Psychology – AP</i></b></p>	<p>Psychology AP is designed to meet the requirements of a college level course in psychology. Many topics explored in the regular course will be developed to a higher level. This course prepares the student for the Advanced Placement exam which they will be given the opportunity to take in May. Students may take Psychology and Psychology AP and be awarded state elective credit for each course.</p>
<p>Grade Placement: 11 – 12 Prerequisite: None Credit: .5</p>	
<p><b>25800B</b>    <b><i>Sociology</i></b></p>	<p>Sociology presents a comparative look at group behavior in many cultures, social classes, and communities. It introduces the student to the ways sociologists investigate, describe, and analyze social life. The process of socialization, showing how both males and females learn cultural patterns and social norms as children, adolescents, and adults, is a major focus. The topics of race, ethnicity, poverty, and the role of change are also discussed.</p>
<p>Grade Placement: 11 – 12 Prerequisite: None Credit: .5</p>	

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**25803B Sociology – H**

Grade Placement: 11 – 12

Prerequisite: None

Credit: .5

Honors Sociology will extensively explore the nature of social life and human interaction. While studying comparative group behaviors in various cultures, social classes, and communities, students will be researching, interpreting, and analyzing a variety of primary sources and case studies. **Students in Honors Sociology will be expected to complete an honors level project in this class.**

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**256051 European History – AP**

Grade Placement: 10 – 12

Prerequisite: None

Credit: 1

The course is for social studies students who demonstrate the ability and interest to study a college-level European history course. The content will include a study of the history of Europe from 1500 to the present. Analytical and research skills will be used to study primary sources and scholarly works. The student will have the opportunity to receive college credit for this course by demonstrating knowledge on an Advanced Placement examination. This course prepares the student to take the Advanced Placement exam.

## SPEECH

Plano ISD Course No.	Subject	Grade	Credits
45350B	Communication Applications	9 – 12	.5
45250B	Introduction to Radio and Television	11 – 12	.5
451601	Debate I	9 – 12	1
452601	Debate II	10 – 12	1
453601	Debate III	11 – 12	1
453631	Debate III H	11 – 12	1
451701	Oral Interpretation I	9 – 12	1
452701	Oral Interpretation II	10 – 12	1
453701	Oral Interpretation III	11 – 12	1
453731	Oral Interpretation III – H	11 – 12	1
454701	Independent Study / Speech H	11 – 12	1

### **45350B Communication Applications**

Grade Placement: 9 – 12

Prerequisite: None

Credit: .5

What's Next? Any Speech elective

This required state-designed speech course is a mandatory communication course for all high school students. The goal is for students to learn effective interpersonal skills, verbal and non-verbal messages, presentation skills, group/team work and interview skills in order to be successful in the workplace. Students will give informal and formal presentations. **All students must complete this course for the .5-speech credit required for graduation.**

### **45250B Introduction to Radio and Television**

Grade Placement: 11 – 12

Prerequisite: None

Credit: .5

What's Next? Any Speech elective

Students will study the history, functions, and laws affecting broadcast media. They will consider the impact of radio and television on society. They will be involved with script composition, production techniques, and the role of the broadcast media consumer.

### **451601 Debate I**

Grade Placement: 9 – 12

Prerequisite: None

Credit: 1

What's next? Debate II

Students will study specific formats and forums for debate. They will learn processes of logic and critical thinking as they prepare briefs and cases. They will learn to write, present and compete in various public speaking events. They will make debate presentations in classroom and tournament situations.

<p><b>452601    Debate II</b></p> <p>Grade Placement: 10 – 12</p> <p>Prerequisite: Debate I</p> <p>Credit: 1</p> <p><i>What's next?</i> Debate III</p>	<p>This is the second course for those students wishing to continue their study of debate. Students will study specific formats and forums for debate. They will learn processes of logic and critical thinking as they prepare briefs and cases. They will learn to write, present and compete in various public speaking events. They will make debate presentations in classroom and tournament situations.</p>
<p><b>453601    Debate III</b></p> <p>Grade Placement: 11 – 12</p> <p>Prerequisite: Debate II</p> <p>Credit: 1</p>	<p>This is the third course for those students wishing to continue their study of debate. Students will study specific formats and forums for debate. They will learn processes of logic and critical thinking as they prepare briefs and cases. They will learn to write, present and compete in various public speaking events. They will make debate presentations in classroom and tournament situations. Students will effectively research issues using the library and online resources; understand and demonstrate competency utilizing various philosophical decision-making paradigms; and recognize and identify valid and invalid forms of reasoning.</p>
<p><b>453631    Debate III – H</b></p> <p>Grade Placement: 11 – 12</p> <p>Prerequisite: Debate II, Teacher Approval</p> <p>Credit: 1</p>	<p>This is the third course for those students wishing to continue their study of debate. Although encompassing the same debate skills and course expectations as the regular debate course, this class has an added emphasis on research and individualized study, leading to the development of comprehensive debate skills. This course requires a contract for completion of course requirements in order to receive honors credit. Students will demonstrate collegiality skills within the context of group discussion; develop, demonstrate, and hone critical thinking and problem-solving skills; and acquire greater appreciation and knowledge of national and international issues.</p>
<p><b>451701    Oral Interpretation I</b></p> <p>Grade Placement: 9 – 12</p> <p>Prerequisite: None</p> <p>Credit: 1</p> <p><i>What's next?</i> Oral Interpretation II</p>	<p>Students in this course will study such principles of oral interpretation of literature as selection and analysis of literature, performance techniques, and criteria for evaluation. They will participate in presentations in classroom and tournament situations.</p>
<p><b>452701    Oral Interpretation II</b></p> <p>Grade Placement: 10 – 12</p> <p>Prerequisite: Oral Interpretation I</p> <p>Credit: 1</p> <p><i>What's next?</i> Oral Interpretation III</p>	<p>This is the second course for those students wishing to continue their study of oral interpretation. Students in this course will study such principles of oral interpretation of literature as selection and analysis of literature, performance techniques, and criteria for evaluation. They will participate in presentations in classroom and tournament situations.</p>
<p><b>453701    Oral Interpretation III</b></p> <p>Grade Placement: 11 – 12</p> <p>Prerequisite: Oral Interpretation II</p> <p>Credit: 1</p>	<p>This is the third course for those students wishing to continue their study of oral interpretation. Students in this course will study such principles of oral interpretation of literature as selection and analysis of literature, performance techniques, and criteria for evaluation. They will participate in presentations in classroom and tournament situations. Students will demonstrate an understanding of different genres and the characteristics that make each unique.</p>

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**453731 Oral Interpretation III –  
H**

Grade Placement: 11 – 12

Prerequisite: Oral Interpretation II, Teacher  
Approval

Credit: 1

This is the third course for those students wishing to continue their study of oral interpretation. Although encompassing the same public speaking and oral interpretation skills and course expectations as the regular oral interpretation course, this class has an added emphasis on research and individualized study, leading to the development of comprehensive oral interpretation skills. This course requires a contract for completion of course requirements in order to receive honors credit. Students will exhibit a working knowledge of vocal development in the oral interpretation process. Students will also evaluate oral interpretation performances, critiquing the positive and negative aspects of the performance, and providing suggestions for improvement.

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**454701 Independent Study /  
Speech H**

Grade Placement: 11 – 12

Prerequisite: Oral Interpretation or Debate and  
Teacher Approval

Credit: 1

This course is designed to provide opportunity for advanced students to plan, organize, produce, perform and evaluate a project that enables them to develop advanced skills in communication, critical thinking and problem solving. Students must be highly organized and self-motivated for the personalized, independent nature of this course.

# CAREER & TECHNICAL EDUCATION

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Career & Technical Education (CTE) offers an opportunity for students to learn skills they may use in high school, in college, in a career after graduation and/or as a financial means to help further their education. CTE blends academics and career preparation to produce well-rounded graduates ready for the opportunities of the world.

The Plano Independent School District has begun implementation of AchieveTexas which is an education initiative/system designed to prepare all students for a lifetime of success through wise education choices. The initiative is based on the belief that the curricula of the 21st century should combine *rigorous* academics with *relevant* Career & Technical Education, which enables students to see the “usefulness” of what they are learning. The system facilitates a seamless transition (beginning in 8th grade) from secondary to postsecondary opportunities utilizing the sixteen federally defined Career Clusters. There are models (Plans of Study) within each Career Cluster that recommend the sequence of coursework based on a student’s interest or career goal.

View Plans of Study and additional career planning resources at <http://k-12.pisd.edu/cte>

## Plano ISD offers CTE courses in the following Career Clusters:

- Agriculture, Food and Natural Resources
- Architecture and Construction
- Arts, Audio/Visual Technology and Communications
- Business Management and Administration
- Education and Training
- Finance
- Health Science
- Hospitality and Tourism
- Human Services
- Information Technology
- Law, Public Safety, Corrections and Security
- Marketing, Sales and Service
- Science, Technology, Engineering and Mathematics
- Transportation, Distribution and Logistics

Read more about AchieveTexas at <http://www.achievetexas.org>. 

It is the policy of Plano ISD not to discriminate on the basis of race, color, national origin, sex or handicap in its career programs, services, or activities as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Educational Amendments of 1972; and Section 504 of the Rehabilitation Act of 1973, as amended.

Plano ISD will take steps to assure that the lack of English language skills will not be a barrier to admission and participation in all educational and career programs.

## Career Preparation courses and Internships

A student planning to enroll for the first time in a 2 – 3 hour intern program or a career preparation program is expected to complete a student information form. This form may be obtained from the counselor’s office.

## Fine Arts Credit

Successful completion of both semesters of Principles and Elements of Floral Design will satisfy the Fine Arts 1.0 credit graduation requirement.

## Health Credit

Successful completion of both semesters of Principles of Health Science will fulfill the Health .5 credit graduation requirement.

## Math Credit

Successful completion of both semesters of Computer Science AP/IB will fulfill the 4<sup>th</sup> mathematics requirement.

## Science Credit

A 4<sup>th</sup> science credit may be fulfilled by successful completion of both semesters of:

- Anatomy and Physiology
- Scientific Research and Design
- Food Science
- Forensic Science

## Tech Prep Credit

Tech Prep courses offer college credit through Collin College at no cost to the student. Course descriptions will identify which CTE courses **may** award Tech Prep credit.

To receive Tech Prep credit, students must:

1. Complete Tech Prep course, meeting specified minimum grades.
2. Enroll at Collin College and declare an associate degree major within 24 months of graduating high school. This major may include your Tech Prep classes in the degree plan.
3. Complete 6 non-developmental credit hours at Collin College (two 3-credit courses).



## CAREER & TECHNICAL EDUCATION

### Agriculture, Food and Natural Resources

Plano ISD Course No.	Subject	Grade	Credits
55250B	Ag Mechanics and Metal Technologies (Principles of Construction)	11 – 12	.5
55145B	Equine Science	11 – 12	.5
55115B	Horticulture Science	9 – 10	.5
55155B	Landscape Design and Turf Grass Management	9 – 12	.5
55195B	Professional Standards in Agribusiness (Leadership Development and Communications)	9 – 12	.5
55130B	Livestock Production	9 – 12	.5
551501	Principles and Elements of Floral Design	11 – 12	1
55105B	Small Animal Management	9 – 10	.5
551051	Small Animal Management	9 – 10	1
552801	Veterinary Medical Applications	11 – 12	1
552901	Practicum in Agriculture, Food and Natural Resources (Veterinary Medical Assistant II)	11 – 12	2
55110B	Wildlife, Fisheries and Ecology Management	9 – 12	.5

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**55250B Ag Mechanics & Metal Technologies (Principles of Construction)**

Grade Placement: 11 – 12

Prerequisite: None

Credit: .5

This hands-on course develops skills and competencies in the areas of plumbing, electrical wiring, concrete construction, carpentry, fencing methods, cold and hot metal techniques and metal merging technologies. Students will learn how to use both woodworking and metal working tools and equipment safely. Students are given the opportunity to develop leadership skills through the FFA organization.

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**55145B Equine Science**

Grade Placement: 11 – 12

Prerequisite: None

Credit: .5

This course is designed to develop knowledge and skills pertaining to the selection, nutrition, reproduction, health, and management of horses. Students will learn the basic principles of care and training. Students are given the opportunity to develop leadership skills through the FFA organization.

<b>55115B Horticulture Science</b>	<p>This course develops knowledge and skills pertaining to the maintenance and care of horticulture crops. Included in the course will be areas such as the introduction to home gardening, greenhouse nursery crop production, turf management, landscaping, physiological processes used in plant production, management of common pests and business operations. Students are given the opportunity to develop leadership skills through the FFA organization.</p>
<p>Grade Placement: 9 – 10 Prerequisite: None Credit: .5</p>	
<b>55155B Landscape Design and Turf Grass Management</b>	<p>This course is designed to introduce students to horticultural sciences with emphasis on the technical skills involved in the designing, construction, and maintenance of planted areas and devices for the beautification of home grounds and other areas of human habitation and recreation. Students are given the opportunity to develop leadership skills through the FFA organization.</p>
<p>Grade Placement: 9 – 12 Prerequisite: None Credit: .5</p>	
<b>55195B Professional Standards in Agribusiness (Leadership Development and Communications)</b>	<p>This course is designed to help develop agricultural leadership, citizenship, and cooperation. It includes topics in personal development, employee/employer relations, and group and interpersonal communication skills. Instructional units address topics on safety, entrepreneurship, record keeping, career opportunities, leadership styles, personal leadership potential, motivation and influence, preparing resumes and applications, job interviews, employer expectations, business related ethics, decision making, problem solving, setting personal goals, time management, professional image, employer obligations, complaints and appeals, barriers to communication, written and verbal communication, listening, working with diverse groups, organizing groups, working with co-workers, and more.</p>
<p>Grade Placement: 9 – 12 Prerequisite: None Credit: .5</p>	
<b>55130B Livestock Production</b>	<p>This course is designed to enhance knowledge and skills pertaining to the production and marketing of domestic livestock. It provides the student with the opportunity to work with live animals while learning technical skills relating to human, scientific and technological dimensions of animal systems, anatomy and physiology, nutrition, reproduction, genetics, pests and diseases, and business management and operation skills. Students are given the opportunity to develop leadership skills through the FFA organization.</p>
<p>Grade Placement: 9 – 12 Prerequisite: None Credit: .5</p>	
<b>551501 Principles and Elements of Floral Design</b>	<p>This is an activity-based course which prepares the student to develop competencies in flower classification and identification, geometric and specialized floral designs, identification and classification of plants, interior landscape development, and the use of artistic elements in personal designs. Students will learn business practices as they relate to the floral industry. Client relations and service contracts are an important component of this class. Students are given the opportunity to develop leadership skills through the FFA organization. <b>Successful completion of both semesters of this course will satisfy the Fine Arts (1.0) credit required for graduation. This course provides instruction and training necessary for the Texas State Florist's Certification.</b></p>
<p>Grade Placement: 11 – 12 Prerequisite: None Credit: 1</p>	

<b>55105B</b> <b><i>Small Animal Management</i></b>	<p>This course is designed to develop knowledge and skills pertaining to selection, ownership, nutrition, reproduction, health and management of a variety of small animals while also exploring career opportunities. This is a laboratory-oriented course that gives students hands-on experience in working with a variety of small animals to possibly include canines, felines, avian, hamsters, small mammals and amphibians. It is suggested that students enroll in Small Animal Management before Veterinary Medical Applications. Students are also given the opportunity to develop leadership skills through the FFA organization.</p>
<b>551051</b> <b><i>Small Animal Management</i></b>	
<p>Grade Placement: 9 – 10 Prerequisite: None Credit: .5 or 1</p>	
<b>552801</b> <b><i>Veterinary Medical Applications</i></b>	<p>This course includes the academic background for entry-level positions as a veterinary assistant. Topics include animal anatomy, physiology, disease transmission, treatment techniques, lab procedures, parasitology, basic clinical pathology, radiology, emergency procedures, medical and surgical animal handling and restraint, health and safety, sanitation, surgical preparation, medical terminology, infectious diseases, instrument and equipment identification, vaccine preparation and injection techniques, laws and ethics, veterinary office procedures, nursing skills, client interaction, and clinic operations. Students are given the opportunity to develop leadership skills through the FFA organization. <b>This course provides instruction and training necessary for the Texas Veterinary Medical Association’s Certified Veterinary Assistant Level I certification.</b></p>
<p>Grade Placement: 11– 12 Prerequisite: 1.0 credit of Small Animal Management is recommended Credit: 1</p>	
<b>552901</b> <b><i>Practicum in Agriculture, Food and Natural Resources (Veterinary Medical Assistant II)</i></b>	<p>This course prepares students for careers in the field of veterinary science. Instruction for this course may be delivered through arrangements such as cooperative education, preceptorships, mentoring, and job shadowing at local veterinary clinics. Students are given the opportunity to develop leadership skills through the FFA organization. Students enrolled in this course must provide their own transportation.</p>
<p>Grade Placement: 11– 12 Prerequisite: Veterinary Medical Applications Credit: 2</p>	
<b>55110B</b> <b><i>Wildlife, Fisheries and Ecology Management</i></b>	<p>This course is designed to examine the importance of wildlife and outdoor recreation with emphasis on using scientific knowledge to study wildlife and natural resources. Also included in the course are sections covering boater education, angler education, and hunter education. Students are also given the opportunity to develop leadership skills through the FFA organization. <b>This course provides instruction and training necessary for the Texas Hunter Education and Boater Education certifications.</b></p>
<p>Grade Placement: 9– 12 Prerequisite: None Credit: .5</p>	

## CAREER & TECHNICAL EDUCATION

### Architecture and Construction

Plano ISD Course No.	Subject	Grade	Credits
556851	Architectural Design * (1 hour)	11 – 12	1
557501	Architectural Design * (2 hour)	11 – 12	2
557551	Advanced Architectural Design *	11 – 12	2
55235B	Interior Design	11 – 12	.5

\* Tech Prep college credit may be awarded for these courses by Collin College. See page 109 for details.

#### **556851 Architectural Design (1 hour)**

#### **557501 Architectural Design (2 hour)**

Grade Placement: 11 – 12

Prerequisite: Algebra I and Geometry recommended

Credits: 1 or 2

*What's next?* Advanced Architectural Design

This is the first year of a two-year course, which consists of one or two hours of technical instruction and drafting practice each day. The study includes technical vocabulary, introduction to computer-aided drafting (CAD), orthographic projection, auxiliary views, dimensioning, sectional views, axonometric, the various career opportunities available, working drawing, and introduction to architectural concepts. In architectural design, students gain knowledge and skills specific to those needed to enter a career in architecture and construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design and landscape architecture. **This course may be eligible for Tech Prep credit. See page 109 for details.**

#### **557551 Advanced Architectural Design**

Grade Placement: 11 – 12

Prerequisite: Architectural Design

Credit: 2

This 2-hour course is a continuation of Architectural Design. The study includes architectural concepts, lettering, site conditions, residential designs, structural systems, civil drafting, H.V.A.C. systems, dimensioning, foundations, entrepreneurship, college investigation and computer-aided drafting concepts. Structural, electronic, civil drafting, 3D, and solid modeling are studied. This course includes an optional internship in which students practice their drafting skills with professionals in the business community. Students participating in optional internships must provide their own transportation. **This course may be eligible for Tech Prep credit. See page 109 for details.**

#### **55235B Interior Design**

Grade Placement: 11 – 12

Prerequisite: None

Credit: .5

Interior Design focuses on the significance of lifestyle and basic needs in order to select a home and its décor to reflect personalities of individuals or a family. Emphasis is placed on housing alternatives, basic home construction, the elements and principles of design, styles of furniture, and quality furniture construction. Background areas of the home (wall, window, ceiling, and floor treatments), floor plans, furniture arrangements, and accessories will be analyzed for selection and use. Career opportunities in housing and interior design are examined.

## CAREER & TECHNICAL EDUCATION

### Arts, Audio/Visual Technology and Communications

Plano ISD Course No.	Subject	Grade	Credits
403001	Desktop Publishing	9 – 12	1
403051	Digital and Interactive Media*	9 – 12	1
553101	Fashion Design	11 – 12	1
553151	Advanced Fashion Design	11 – 12	2
556801	Graphic Design and Illustration (1 hour)	11 – 12	1
557301	Graphic Design and Illustration * (2 hour)	11 – 12	2
557351	Advanced Graphic Design and Illustration *	11 – 12	2
403201	Video Technology	11 – 12	1
403301	Advanced Audio/Video Production	12	2
403101	Web Mastering	9 – 12	1

\* Tech Prep college credit may be awarded for these courses by Collin College. See page 109 for details.

#### **403001 Desktop Publishing**

Grade Placement: 9 – 12

Prerequisite: Proficiency in keyboarding and computer file management

Credit: 1

In this project-based course, students will learn the design theory and technology skills for producing effective print communications. While developing skills in page layout, editing, and graphic design, students will plan and produce documents such as newsletters, brochures, posters, marketing materials, and magazines.

#### **403051 Digital and Interactive Media**

Grade Placement: 9 – 12

Prerequisite: Proficiency in keyboarding and computer file management

Credit: 1

Students will develop an understanding of the multimedia project process, from planning and design, research and development, to presentation and evaluation. Students will develop proficiency in the use of text, graphics, audio, video, and multimedia authoring tools. Students will utilize these skills to produce a variety of projects and presentations. **This course may be eligible for Tech Prep credit. See page 109 for details.**

#### **553101 Fashion Design**

Grade Placement: 11 – 12

Prerequisite: None

Credit: 1

In this **one-hour**, full-year course, students will be introduced to the exciting world of the fashion industry. Course content will include the history of costume, garment styles, textiles, clothing construction, principles and elements of design, fashion merchandising and promotion, and careers in fashion.

#### **553151 Advanced Fashion Design**

Grade Placement: 11 – 12

Prerequisite: Fashion Design

Credits: 2

In this two-hour, full-year course, students will build upon the skills acquired in Fashion Design. Activities will include designing and marketing a collection, clothing construction, fashion merchandising, business concepts, and formulation of a fashion show.

<p><b>556801</b>    <b>Graphic Design and Illustration (1 hour)</b></p>	<p>This one or two-hour, full-year course provides training for entry-level employment in the graphic design field. Instruction includes basic components of graphic design and the development of the creative process from concept to finished product. Students will learn traditional techniques as well as current computer software technologies. Career opportunities will be explored. Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. <b>Students enrolled in the 2-credit Graphic Design course may be eligible for Tech Prep credit. See page 109 for details.</b></p>
<p><b>557301</b>    <b>Graphic Design and Illustration (2 hour)</b></p>	
<p>Grade Placement: 11 – 12 Prerequisite: None Credits: 1 or 2 <i>What's next?</i> Advanced Graphic Design and Illustration</p>	
<p><b>557351</b>    <b>Advanced Graphic Design and Illustration</b></p>	<p>This course is a continuation of Graphic Design and Illustration providing students with hands-on experience working from concept to finish in a variety of formats. Students gain advanced knowledge of current computer software and techniques while applying them to class assignments and freelance jobs. <b>This course may be eligible for Tech Prep credit. See page 109 for details.</b></p>
<p>Grade Placement: 11 – 12 Prerequisite: Graphic Design and Illustration Credits: 2</p>	
<p><b>403201</b>    <b>Video Technology</b></p>	<p>This course includes an introduction to digital video production and hands-on use of a variety of applications and hardware ranging from simple to more sophisticated. Video production is not only instructional and analytical, but also artistic. Students will learn video basics as well as participate in pre-production, production, and post-production stages of video creation. Students enrolled in this course will be computer literate and have experience with basic electronic productivity. A prerequisite for this course is Digital and Interactive Media (multimedia), or Web Mastering, or Video teacher recommendation. Students will work in seven main areas: project process, design and layout, graphics, audio/video media, lighting, presentation/delivery, and evaluation. The goal will be to develop increased understanding and proficiency in each area as the school year progresses. Students will participate in minor and major projects for a variety of purposes and audiences.</p>
<p>Grade Placement: 11 – 12 Prerequisite: 1.0 credit of Digital and Interactive Media or Web Mastering, or Video teacher recommendation Credit: 1</p>	
<p><b>403301</b>    <b>Advanced Audio/Visual Production</b></p>	<p>Students will learn advanced video concepts while working toward a campus-wide digital yearbook as a cumulative project. In addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Visual Technology, and Communications cluster, students will be expected to develop an advanced understanding of the industry with a focus on pre-production, production, and post-production activities. The class will provide the campus with necessary video production services. Smaller projects will serve as supplemental material for the students' professional portfolio.</p>
<p>Grade Placement: 12 Prerequisite: 1.0 credit in Video Technology and/or Video teacher recommendation. Credit: 2.0</p>	
<p><b>403101</b>    <b>Web Mastering</b></p>	<p>The student will develop an understanding of the structure, functions and technical foundations of the World Wide Web, the Internet, and intranets. After developing basic proficiency in creating Web pages using traditional HTML coding, visual HTML editors and graphics production software, students will plan and develop functional and aesthetically pleasing Web sites targeting appropriate audiences.</p>
<p>Grade Placement: 9 – 12 Prerequisite: Proficiency in keyboarding and computer file management Credit: 1</p>	



## CAREER & TECHNICAL EDUCATION

### *Business, Management and Administration*

Plano ISD Course No.	Subject	Grade	Credits
35300B	Touch System Data Entry *	9 – 12	.5
35100B	Principles of Business, Marketing and Finance	9 – 10	.5
352001	Business Information Management I *	9 – 12	1
35330B	Business Law	11 – 12	.5
33540B	Global Business	11 – 12	.5
355801	Practicum in Business Management	12	3
33550B	Virtual Business	10 – 12	.5

\* Tech Prep college credit may be awarded for these courses by Collin College. See page 109 for details.

#### **35300B Touch System Data Entry**

Grade Placement: 9 – 12

Prerequisite: None

Credit: .5

This one-semester course is designed for all students to develop and apply hands-on keyboarding skills, which are important, both personally and in the workplace. This course prepares students to operate the keyboard by touch and to develop both speed and accuracy. Students will enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students will be able to format tables, letters, and MLA reports and develop critical file management techniques. **It is highly recommended that a student enroll in Touch System Data Entry to develop the skills needed for BIM, Web Mastering, and Digital & Interactive Media. This course may be eligible for Tech Prep credit. See page 109 for details.**

#### **35100B Principles of Business, Marketing & Finance**

Grade Placement: 9 – 10

Prerequisite: None

Credit: .5

In this course, students gain knowledge in the impact of global business, marketing of goods and services, advertising, and product pricing and economies and private enterprise systems. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings in business, marketing and finance. Students will develop communication skills by working together on team projects, participating in class discussions and making presentations to the class using appropriate media. Students will investigate the types of business that market goods and services, analyze cost and profit relationships, analyze the sales process, demonstrate how to advertise to targeted audiences, demonstrate how to increase sales using visual merchandising and special events, and demonstrate an understanding of the fundamental principles of money and personal financial management. Students will formulate a career plan.



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**352001 Business Information Management I \***

Grade Placement: 9 – 12

Prerequisite: Touch System Data Entry (Keyboarding) recommended

Credit: 1

Business Information Management I is a full-year class that gives students a working knowledge of technology and prepares them to be proficient in business applications using advanced computer software. This program uses individualized and group instruction to assist students in gaining business skills. Integrated office software allows students the opportunity to develop word processing, spreadsheet, presentation and database skills. BIM I places an emphasis on advanced skills including document formatting, desktop publishing, integration of software, database creation and manipulation, and multimedia presentations. **This course may be eligible for Tech Prep credit. See page 109 for details.**

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**35330B Business Law**

Grade Placement: 11 – 12

Prerequisite: None

Credit: .5

Business Law provides practical information such as how to help students effectively handle certain legal situations. Students will have the opportunity to develop a better understanding of our legal system as it pertains to minors, family law, contracts, bankruptcy, sales warranties, employment laws, criminal law, wills, and the court system. Topics will include social responsibility of business, business ethics, torts, contracts, negotiable financial instruments, personal property, sales, warranties, concept of agency and employment, and real property.

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**33540B Global Business**

Grade Placement: 11 – 12

Prerequisite: None

Credit: .5

Global Business provides students with an understanding of cultural diversity, the global economy, and international business organizations. The content and activities of the course allow the student to develop the appreciation, knowledge, skills, and abilities needed to work in a global marketplace. Students develop a foundation in the economical, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. During this one-semester course, each student will have many opportunities to work in teams, and give presentations based on the research done on international business projects.

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**355801 Practicum in Business Management**

Grade Placement: 12

Prerequisite: Must be 16 years old and enrolled in grade 12

Credit: 3

This course offers instruction based on the students' needs and interests in business occupations. Students attend classes in the mornings and work in a business environment in the afternoons. This full-year class gives students a working knowledge of technology and prepares them to be proficient in business applications using advanced computer software. Classroom instruction includes activities using word processing, database, spreadsheet, and multimedia software. Students are placed in a business environment and receive training in areas including accounting, medical, banking, legal, and computer-related fields. The students are required to be employed a minimum of 15 hours per week. Wages are paid to the student commensurate with wages to other beginning employees in similar occupations within the community. **Students enrolled in this course must provide their own transportation.**

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**33550B Virtual Business**

Grade Placement: 9 – 12

Prerequisite: None

Credit: .5

The virtual business course affords students an opportunity to analyze the process of starting and growing a business over the web. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions. Students assess their skills, interests & strengths to determine their suitability for working in the virtual world. Students demonstrate online and offline marketing techniques and learn how to establish a web presence. Students develop leadership, communication and project management skills.

## CAREER & TECHNICAL EDUCATION

### Education and Training

Plano ISD Course No.	Subject	Grade	Credits
55200B	Principles of Human Services	9 – 12	.5
55230B	Child Development*	11 – 12	.5
553041	Instructional Practices in Education and Training*	11 – 12	1
553001	Instructional Practices in Education and Training *	11 – 12	2
553051	Practicum in Education and Training	12	2

\* Tech Prep college credit may be awarded for these courses by Collin College. See page 109 for details.

#### **55200B Principles of Human Services**

Grade Placement: 9 – 12

Prerequisite: None

Credit: .5

This course will enable students to investigate career clusters with a focus on human service careers, including teaching. Each student will participate in a variety of activities. The activities are designed to develop personal characteristics and skills that will help lead them into post secondary readiness and success in high-skill, high-wage, or high demand careers.

#### **55230B Child Development**

Grade Placement: 11 – 12

Prerequisite: Annual Criminal Background Check

Credit: .5

*What's next?* Instructional Practices in Education and Training

This course explores knowledge and skills related to the development and care of children. The content begins with the impact of parenting on the individual(s). It develops concepts related to prenatal and postnatal care, the development of children, childcare guidance techniques, and the causes and prevention of child abuse. The course emphasizes special parenting techniques for guiding children with special needs such as those who are handicapped, gifted and talented. Career opportunities in child related fields are also explored. Some classes will have the opportunity to observe children in the campus educational preschool. A career connection activity completed outside the classroom is required of all students. **This course may be eligible for Tech Prep credit. See page 109 for details.**

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**553041**    ***Instructional Practices  
in Education and  
Training***

**553001**    ***Instructional Practices  
in Education and  
Training***

Grade Placement: 11 – 12

Prerequisite: Annual Criminal Background Check

Credits: 1.0 or 2.0

*What's next?* Practicum in Education and Training

This one or two credit Instructional Practices in Education and Training is a field site/internship based class designed to give students the opportunity to explore careers in teaching and occupations working directly with children and adolescents. Students experience the guidance of children physically, socially, emotionally, and intellectually six hours per week in the classroom and four hours per week at field sites, including the educational preschool located on campus. Field site experience requires students to travel independently to elementary schools, preschools, and area community facilities to plan and carry through activities while observing and recording development. This course offers training to persons interested in professions related to human development, psychology, medicine, education, and childcare. **Students enrolled in this course must provide their own transportation. This course may be eligible for Tech Prep credit. See page 109 for details.**

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**553051**    ***Practicum in Education  
and Training***

Grade Placement: 12

Prerequisite: Instructional Practices in Education and Training Annual Criminal Background Check

Credits: 2

Practicum in Education and Training is a two-hour field site/internship based class designed to give students the opportunity to do an in-depth study of the physical, social, emotional and intellectual growth and development of children and adolescents through four hours classroom study per week and six hours field site experience per week. Field sites include the educational preschool located on campus and other field sites requiring students to travel independently elementary schools and area community facilities. This course offers training to persons interested in professions related to human development, psychology, medicine, education, and childcare. **Students enrolled in this course must provide their own transportation.**

## CAREER & TECHNICAL EDUCATION

### Finance

Plano ISD Course No.	Subject	Grade	Credits
35100B	Principles of Business, Marketing and Finance	9 – 10	.5
355001	Accounting I *	11 – 12	1

\* Tech Prep college credit may be awarded for these courses by Collin College. See page 109 for details.

#### **35100B Principles of Business, Marketing & Finance**

Grade Placement: 9 – 10

Prerequisite: None

Credit: .5

In this course, students gain knowledge in the impact of global business, marketing of goods and services, advertising, and product pricing and economies and private enterprise systems. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings in business, marketing and finance. Students will develop communication skills by working together on team projects, participating in class discussions and making presentations to the class using appropriate media. Students will investigate the types of business that market goods and services, analyze cost and profit relationships, analyze the sales process, demonstrate how to advertise to targeted audiences, demonstrate how to increase sales using visual merchandising and special events, and demonstrate an understanding of the fundamental principles of money and personal financial management. Students will formulate a career plan.

#### **355001 Accounting I**

Grade Placement: 11 – 12

Prerequisite: None

Credit: 1

Accounting will help students prepare for college as well as entry-level jobs. Students will learn the general journal approach to accounting for sole proprietorships, partnerships, and corporations. Students will apply basic accounting principles to “real world” situations through the use of computers and business simulations. Students will investigate the field of accounting, including economic, financial, technological, international, social, legal and ethical factors. **This course may be eligible for Tech Prep credit. See page 109 for details.**

## CAREER & TECHNICAL EDUCATION

### Health Science

Plano ISD Course No.	Subject	Grade	Credits
55410B	Medical Terminology*	9 – 12	.5
554201	Principles of Health Science*	10 – 12	1
554401	Health Science (Clinical Rotation I)	11 – 12	2
554501	Practicum in Health Science (Clinical Rotation II)	12	2
204101	Anatomy and Physiology	11 – 12	1

\* Tech Prep college credit may be awarded for these courses by Collin College. See page 109 for details.

#### **55410B Medical Terminology**

Grade Placement: 9 – 12

Prerequisite: None

Credit: .5

This course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, combining forms, singular/plural forms, plus medical abbreviations and acronyms. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology. **This course may be eligible for Tech Prep credit. See page 109 for details.**

#### **554201 Principles of Health Science**

Grade Placement: 10 – 12

Prerequisite: Biology I or presently enrolled in Biology I

Credit: 1

*What's next?* Health Science (Clinical Rotation I)

Principles of Health Science is designed to provide students the opportunity for comprehensive study of human anatomy and physiology, medical terminology, introduction to basic patient care skills, American Heart Association First Aid and CPR certification, as well as health career exploration. Students will also address the relevance of this class to today's health care industry. **This course is the required prerequisite for Health Science (Clinical Rotation). Successful completion of both semesters of this course will satisfy the Health credit required for graduation. This course may be eligible for Tech Prep credit. See page 109 for details.**

#### **554401 Health Science (Clinical Rotation I)**

Grade Placement: 11 – 12

Prerequisite: Principles of Health Science and application required

Credits: 2

*What's next?* Practicum in Health Science (Clinical Rotation II)

Health Science is a two-hour full-year program that provides the student with a unique opportunity to explore a variety of health care careers. Students develop skills while training under the direct supervision of a licensed health care professional. Students gain entry-level certification in patient care. The first twelve weeks of the course will be spent in the classroom in preparation for the clinical intern experience. For the remainder of the year students will alternate between related classroom instruction and serving as an unpaid intern in a hospital or other health care facility. **Students will become AHA Healthcare Provider CPR certified. Admittance into Health Science is based upon application only. Students enrolled in this course must provide their own transportation.**

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**554501    *Practicum in Health Science (Clinical Rotation II)***

Grade Placement: 12

Prerequisite: Health Science (Clinical Rotation I) and application required

Credits: 2

Practicum in Health Science is a two-hour full-year intern program for senior students. This course will provide opportunities for the student to complete in-depth studies in a specialized field of health care, which was identified by the student as a particular area of interest in Practicum in Health Science. Students will spend time completing a clinical intern experience in a hospital or other health care facility as well as receive related classroom instruction. Practicum in Health Science includes options for certification in: Emergency Medical Technician\*\* (EMT) or Pharmacy Technician (CPhT). Certification options vary by campus. **Admittance into Practicum in Health Science is based on application only. Students enrolled in this course must provide their own transportation.**

**\*\*Pending Department of State Health Services annual EMT course approval.**

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**204101    *Anatomy and Physiology***

Grade Placement: 11 – 12

Prerequisite: Biology (1 credit) and Chemistry (1 credit)

Credit: 1

Anatomy and Physiology includes laboratory investigation and fieldwork using appropriate scientific inquiry. This hands-on course is a survey of the structures and functions of the human body and integrates the physics and chemistry concepts found in the body systems. In this course the student will investigate the body's responses to forces: maintenance of homeostasis, electrical interactions, transport systems, and energy processes. **This course will earn science credit.**



## CAREER & TECHNICAL EDUCATION

### Hospitality and Tourism

Plano ISD Course No.	Subject	Grade	Credits
55210B	Principles of Hospitality and Tourism	9 – 10	.5
552251	Food Science	11 – 12	1
55550B	Restaurant Management	10 – 12	.5
553201	Culinary Arts *	11 – 12	2
553251	Practicum in Culinary Arts *	11 – 12	2

\* Tech Prep college credit may be awarded for these courses by Collin College. See page 109 for details.

#### **55210B Principles of Hospitality and Tourism**

Grade Placement: 9 – 10

Prerequisite: None

Credit: .5

*What's next?* Culinary Arts, Food Science, or Sports Nutrition and Wellness

The hospitality and tourism industry, as well as this course, encompasses lodging; travel and tourism; recreation, amusements, attractions, and resorts; and restaurants and food beverage service. The hospitality and tourism industry maintains the largest national employment base in the private sector. Students use knowledge and skills that meet industry standards to function effectively in various positions within this multifaceted industry.

#### **552251 Food Science**

Grade Placement: 11 – 12

Prerequisite: Biology, Chemistry and Physics are required. Principles of Hospitality & Tourism is recommended.

Credit: 1 (4<sup>th</sup> science credit)

*What's next?* Culinary Arts

Food Science students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Food Science is the study of the nature of foods, the causes of deterioration, the principles underlying food processing and the improvement of foods for the consuming public. **Successful completion of both semesters of this course will satisfy the 4<sup>th</sup> science credit required for graduation.**

#### **55550B Restaurant Management**

Grade Placement: 10 – 12

Prerequisite: None

Credit: .5

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

#### **553201 Culinary Arts**

Grade Placement: 11 – 12

Prerequisite: None

Credits: 2

*What's next?* Practicum in Culinary Arts

This course is a two-hour full-year laboratory class designed for students that have a special interest in food service employment and for those students planning to pursue advanced education in hotel and restaurant management. This course will orient students in the use of commercial kitchen equipment and the safety and sanitation factors involved in the food service industry. Classroom instruction and laboratory experiences will include basic skill development in quantity food preparation. Careers in the food service industry will also be explored during the year. **This course may be eligible for Tech Prep credit. See page 109 for details.**

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**553251    *Practicum in Culinary Arts***

Grade Placement: 11 – 12

Prerequisite: Culinary Arts

Credits: 2

This course is a two-hour full-year laboratory class designed for students who have completed Culinary Arts. Advanced techniques in quantity food preparation will be practiced in the commercial laboratory classroom. Some field site experiences may be arranged requiring students to travel independently to food service operations. Emphasis will be on food service management as well as planning, preparing, and serving various meals for school and community groups. Students will gain first-hand knowledge through intern sites such as restaurants, supermarkets and hospitals. **Students participating in field site experiences and internships must provide their own transportation.** This course may be eligible for Tech Prep credit. See page 109 for details.

## CAREER & TECHNICAL EDUCATION

### Human Services

Plano ISD Course No.	Subject	Grade	Credits
55200B	Principles of Human Services	9 – 12	.5
55230B	Child Development	11 – 12	.5
553801	Career Preparation I	11 – 12	3
553851	Career Preparation II	12	3
55240B	Dollars and Sense	11 – 12	.5
55245B	Interpersonal Studies	12	.5
55260B	Lifetime Nutrition and Wellness	10 – 12	.5

#### **55200B Principles of Human Services**

Grade Placement: 9 – 12

Prerequisite: None

Credit: .5

This course will enable students to investigate career clusters with a focus on human service careers, including teaching. Each student will participate in a variety of activities. The activities are designed to develop personal characteristics and skills that will help lead them into post secondary readiness and success in high-skill, high-wage, or high demand careers.

#### **55230B Child Development**

Grade Placement: 11 – 12

Prerequisite: Annual Criminal Background Check

Credit: .5

*What's next?* Instructional Practices in Education and Training

This course explores knowledge and skills related to the development and care of children. The content begins with the impact of parenting on the individual(s). It develops concepts related to prenatal and postnatal care, the development of children, childcare guidance techniques, and the causes and prevention of child abuse. The course emphasizes special parenting techniques for guiding children with special needs such as those who are handicapped, gifted and talented. Career opportunities in child related fields are also explored. Some classes will have the opportunity to observe children in the campus educational preschool. A career connection activity completed outside the classroom is required of all students.

#### **553801 Career Preparation I**

Grade Placement: 11 – 12

Prerequisite: 16 years of age

Credits: 3

*What's next?* Career Preparation II

This Course is designed to familiarize the students with the world of work through classroom instruction and a minimum of 15 hours per week of paid on-the-job training. Classroom learning experiences include the following: job acquisition, job management, money management, business communication, occupational safety and health, effective consumer practices, and career planning. Training will occur in one of a variety of occupations such as child care, clothing, food production, hotel management, home furnishings, and others that meet the training criteria. **Students enrolled in this course must provide their own transportation.**

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**553851 Career Preparation II**

Grade Placement: 12

Prerequisite: Career Preparation I

Credits: 3

This course is designed to introduce various new areas of study to the second year student as well as review vital areas from Career Preparation I. The course includes learning experiences in business management, job entry and exit skills, safety and health, economics, financial planning, consumer education and transitions to adulthood. Students will have daily classroom study and a minimum of 15 hours of paid on-the-job training during the week at their training station.

**Students enrolled in this course must provide their own transportation.**

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**55240B Dollars and Sense**

Grade Placement: 11 – 12

Prerequisite: None

Credit: .5

This course explores managing life independently. Areas of study include apartments and housing, food and nutrition, clothing selection and care, healthy living practices, and careers. A focus on money management and consumer practices and responsibilities will prevail throughout the course.

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**55245B Interpersonal Studies**

Grade Placement: 12

Prerequisite: None

Credit: .5

This course targets individual and family development. Present relationships and the value of a positive self-concept are emphasized. The classroom experience is directed toward helping the students deal effectively with friendships, dating, remaining single, marriage, and parenting. Emphasis is on life skills such as listening, assertiveness, and dealing with stress. The student is encouraged to apply these learned skills to daily living in order to maintain a successful personal and family life. Class discussion is an integral part of the class. The following relationship areas are explored: self, friends, and family. A career connection experience completed outside the classroom is required of all students.

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**55260B Lifetime Nutrition and Wellness**

Grade Placement: 10 – 12

Prerequisite: None

Credit: .5

This interactive course allows students to use principles of lifetime wellness and nutrition to help them make informed choices as well as pursue related careers. The role nutrition plays in both professional and recreational sports will be explored. Students will investigate the relationship between food and physical, emotional, and mental health, developing a nutritional plan which meets the needs of the individual.

## CAREER & TECHNICAL EDUCATION

### Information Technology

Plano ISD Course No.	Subject	Grade	Credits
401001	Computer Science I	11 – 12	1
401051	Computer Science I AP	11 – 12	1
401061	Computer Science I IB SL	11 – 12	1
402001	Computer Science 2	11 – 12	1
402031	Computer Science 2 Honors	11 – 12	1
402061	Computer Science 2 IB HL	11 – 12	1
556601	Internetworking Technologies 1 * (Cisco CCNA I & II)	11 – 12	1
556651	Internetworking Technologies 2 * (Cisco CCNA III & IV)	11 – 12	1
403051	Digital and Interactive Media*	9 – 12	1

\* Tech Prep college credit may be awarded for these courses by Collin College. See page 109 for details.

#### **401001 Computer Science 1**

Grade Placement: 11 – 12

Prerequisite: Algebra I, Geometry, and Algebra II

Credit: 1

*What's next?* Computer Science 2

This course serves as an introduction to computers and the study of managing and processing information. The emphasis is on solving real world problems by means of computer programming (software engineering). Students will learn the Java programming language and apply those skills in exploring how computers work. Some topics covered include object-oriented design techniques, file management, data structures, graphics, debugging, hardware components, and social implications. Upon completion of the course the student will have created software such as a simple database or an animated graphics display.

#### **401051 Computer Science 1 – AP**

#### **401061 Computer Science 1 – IB SL**

Grade Placement: 11 – 12

Prerequisite: Algebra II

Credit: 1

*What's next?* Computer Science 2 or Computer Science 2 Honors

This course serves as an introduction to computers and the study of managing and processing information. The emphasis is on solving real world problems by means of computer programming (software engineering). Students will learn thoroughly the Java programming language and apply those skills in exploring how computers work. Some topics covered include object-oriented techniques, file management, data structures, classes, objects, graphics, debugging, hardware components, and social implications. The course includes an in depth treatment of the AP Simulation Case Study. Students will have the option of taking the AP exam for which many colleges will grant up to 3 hours of college credit. The IB course contains additional topics to prepare students for the IB SL exam. **This course may be taken to fulfill the 4th year of mathematics requirement for graduation.**

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**402001 Computer Science 2**

Grade Placement: 12

Prerequisite: Computer Science 1

Credit: 1

This course has four main goals: develop advanced software engineering skills in the Java programming language; teach advanced data structures such as linked lists, trees, classes, and data files; expose students to the development and analysis of classic computer algorithms such as sorting, searching, recursion, and numerical analysis; recognize the ethical and social implication of computer use. Students will develop major software projects over topics such as databases, sorting, business applications, and graphics.

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**402031 Computer Science 2 Honors**

Grade Placement: 12

Prerequisite: Algebra II, Computer Science 1, and teacher approval

Credit: 1

This course has four main goals: develop advanced software engineering skills in the Java programming language; teach advanced data structures such as linked lists, trees, classes, and data files; expose students to the development and analysis of classic computer algorithms such as sorting, searching, recursion, and numerical analysis; recognize ethical and social implications of computer use. Students will develop major software projects over topics such as databases, sorting, business applications, and graphics.

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**402061 Computer Science 2 – IB HL**

Grade Placement: 12

Prerequisite: Algebra II, Computer Science 1, and teacher approval

Credit: 1

This course may be taught together with Computer Science 2-Honors. This course has five main goals: develop advanced software engineering skills in the Java programming language; teach advanced data structures such as linked lists, trees, classes, and data files; expose students to the development and analysis of classic computer algorithms such as sorting, searching, recursion, and numerical analysis; recognize the ethical and social implications of computer use; and teach computer systems fundamentals and computer architecture. This course represents college-level achievement in computer science for which most colleges will grant up to six hours of credit. Students will develop major software projects over topics such as databases, sorting, business applications, and graphics. IB students must maintain a dossier and submit it for external moderation. This course prepares the student to take the Advanced Placement exam (A level) and is the second year course necessary for the IB Computer Science HL exam. IB students must also cover the following topics (not covered by the honors): Number systems and representations; Boolean logic with truth tables and logic circuits; System fundamentals (processor configuration, disk storage, operating systems, network fundamentals, file organization); and External sorts, binary (random access) files.

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**556601    *Internetworking  
Technologies 1 (Cisco  
CCNA I & II)***

Grade Placement: 11 – 12

Prerequisite: Algebra I

Credit: 1

This course teaches networking through the PISD Cisco Networking Academy Program. This program is a comprehensive e-learning program, which provides students with the Internet technology skills essential in a global economy. The program delivers Web-based content, online assessment, student performance tracking, hands-on labs, instructor training and support, and preparation for industry standard certifications. Topics include LANs, the OSI model, addressing, and routing. Students who successfully complete the first two semesters of the program are eligible to earn Cisco Certified Entry Network Technician (CCENT) certification. Students who successfully complete two years (four semesters) of the program are eligible to earn Cisco Certified Network Associate (CCNA™) certification. Students may continue this training at any Cisco Academy. **This course may be eligible for Tech Prep credit. See page 109 for details.**

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**556651    *Internetworking  
Technologies 2 (Cisco  
CCNA III & IV)***

Grade Placement: 12

Prerequisite: Internetworking Technologies 1  
(Cisco CCNA I & II)

Credit: 1

This course teaches networking through the PISD Cisco Networking Academy Program. This program is a comprehensive e-learning program, which provides students with the Internet technology skills essential in a global economy. The program delivers Web-based content, online assessment, student performance tracking, hands-on labs, instructor training and support, and preparation for industry standard certifications. Topics include WANs, routers, TCP/IP addressing, routing protocols, and network troubleshooting. Students who successfully complete two years (four semesters) of the program are eligible to earn Cisco Certified Network Associate (CCNA™) certification. **This course may be eligible for Tech Prep credit. See page 109 for details.**

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**403051    *Digital and Interactive  
Media***

Grade Placement: 9 – 12

Prerequisite: Proficiency in keyboarding and  
computer file management

Credit: 1

Students will develop an understanding of the multimedia project process, from planning and design, research and development, to presentation and evaluation. Students will develop proficiency in the use of text, graphics, audio, video, and multimedia authoring tools. Students will utilize these skills to produce a variety of projects and presentations. **This course may be eligible for Tech Prep credit. See page 109 for details.**



## CAREER & TECHNICAL EDUCATION

### Law, Public Safety, Corrections and Security

Plano ISD Course No.	Subject	Grade	Credits
55520B	Principles of Law, Public Safety, Corrections and Security	11 – 12	.5
555301	Law Enforcement I	11 – 12	1
555501	Law Enforcement II	11 – 12	1
555401	Forensic Science	11 – 12	1

**55520B Principles of Law, Public Safety, Corrections and Security**

Grade Placement: 11 – 12

Prerequisite: None

Credit: .5

Principles of Law, Public Safety, Corrections and Security introduces students to professions in law enforcement, security, corrections, and fire and emergency management services. Students will analyze legal and ethical responsibilities of the professions and will recognize the importance of interagency cooperation. Students will use communication skills in creating, expressing, and interpreting information and ideas, and will propose solutions to address problems related to law. Students will identify the roles and functions of court systems, the correctional system, private security and agencies, and fire protection services.

**555301 Law Enforcement I**

Grade Placement: 11 – 12

Prerequisite: None

Credit: 1

Law Enforcement I is an overview of the history, organization and functions of local, state, and federal law enforcement. This course includes the role of constitutional law, the United States legal system, criminal law, law enforcement terminology, and the classification and elements of crime. Students will understand ethical behavior standards for law enforcement personnel. Students will study court cases and analyze the impact of court decisions, analyze custody and interrogation (Miranda v. Arizona), analyze procedural and substantive criminal law, analyze the rights of victims and witnesses and analyze reasonable suspicion and probable cause. Students will use field note-taking and report-writing skills and will employ procedures to protect, document and process a crime scene.

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**555501 Law Enforcement II**

Grade Placement: 11 – 12

Prerequisite: Law Enforcement I

Credit: 1

Law Enforcement II provides the knowledge and skills necessary to prepare for a career in law enforcement. This course includes examining ethical and legal responsibilities, operation of police and emergency telecommunication equipment, and courtroom testimony. Students will develop communication skills to evaluate body language, gestures, verbal tone, and inflection and will use written skills to facilitate field note taking and report writing such as incident reports. Students will prepare testimony for court and present testimony during a mock trial. Students will understand passive, aggressive and assertive behavior and will demonstrate the use of anger management techniques to resolve conflicts and reduce anger. Students will study law enforcement procedures for serving writs, warrants, and summons, procedures pertaining to alcohol and beverage laws, driving while intoxicated and driving under the influence, and strategies for crowd management. Students will investigate and document a motor vehicle accident.

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**555401 Forensic Science**

Grade Placement: 11 – 12

Prerequisite: Biology, Chemistry, Physics and Law Enforcement I

Credit: 1 (4<sup>th</sup> science credit)

This course uses a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide and the psychology of criminal behavior. Students will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection, and scientific procedures used to solve crimes. Using scientific methods, students will collect and analyze through case studies and simulated crime scenes such as fingerprint analysis, ballistics, and blood spatter analysis. Students will learn the history, legal aspects and career options for forensic science. A minimum of 40% of class time will be spent in laboratory work and field investigations. This course may not be offered on all campuses. **Successful completion of both semesters of this course will satisfy the 4<sup>th</sup> science credit required for graduation.**

## CAREER & TECHNICAL EDUCATION

### Marketing, Sales and Services

Plano ISD Course No.	Subject	Grade	Credits
35100B	Principles of Business, Marketing and Finance	9 – 10	.5
55500B	Entrepreneurship	11 – 12	.5
55270B	Fashion Marketing	11 – 12	.5
55515B	Sports and Entertainment Marketing	11 – 12	.5
555801	Marketing Dynamics *	11 – 12	3
555851	Practicum in Marketing Dynamics *	12	3

\* Tech Prep college credit may be awarded for these courses by Collin College. See page 109 for details.

#### **35100B Principles of Business, Marketing & Finance**

Grade Placement: 9 – 10  
 Prerequisite: None  
 Credit: .5

In this course, students gain knowledge in the impact of global business, marketing of goods and services, advertising, and product pricing and economies and private enterprise systems. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings in business, marketing and finance. Students will develop communication skills by working together on team projects, participating in class discussions and making presentations to the class using appropriate media. Students will investigate the types of business that market goods and services, analyze cost and profit relationships, analyze the sales process, demonstrate how to advertise to targeted audiences, demonstrate how to increase sales using visual merchandising and special events, and demonstrate an understanding of the fundamental principles of money and personal financial management. Students will formulate a career plan.

#### **55500B Entrepreneurship**

Grade Placement: 11 – 12  
 Prerequisite: None  
 Credit: .5  
*What's next?* Any Marketing Education course

This course provides an overview of the process involved in starting a business and explores the resources available to help business owners in their venture. You will learn to enjoy your work, be your own boss, and make more money as you discover what it takes to plan, design, and start a profitable business venture. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. Also, students will understand the capital required, the return on investment desired and the potential for profit.

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**55270B Fashion Marketing**

Grade Placement: 11 – 12

Prerequisite: None

Credit: .5

*What's next?* Any Marketing Education course

This course introduces students to the business side of the fashion industry. Fashion marketers plan and purchase seasonal collections and prepare budget forecasts. They are involved in the control of distribution, the organization and physical layout of the merchandise, and the visual presentation and merchandising of goods. They participate in the organization of promotional, advertising and public relations, and in customer service. While focusing on current fashion trends, students will acquire an understanding of fashion terminology, the consumers of fashion, and the specific marketing strategies used in fashion retailing.

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**55515B Sports and Entertainment Marketing**

Grade Placement: 11 – 12

Prerequisite: None

Credit: .5

*What's next?* Any Marketing Education course

This course introduces students to the fundamentals of marketing in the sports and entertainment industries. Students will explore product branding, licensing, sponsorships, pricing, placement, promotion, event marketing, advertising, and implementation of sports and entertainment marketing plans. Students will create a football franchise using a virtual sports simulation. Students will gain an understanding of how the sports and entertainment industries impact the economy and will understand how culture and diversity affect sports and entertainment markets. Students will understand the importance of teamwork, leadership, and organizational skills. Students will evaluate and use information resources to accomplish specific tasks and will deliver presentations using appropriate media to engage and inform audiences.

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**555801 Marketing Dynamics (Career Prep)**

Grade Placement: 11 – 12

Prerequisite: 16 years old

Credits: 3

*What's next?* Practicum in Marketing Dynamics

This course is designed for college-bound as well as non-college bound students interested in a career in marketing. The course combines classroom instruction with supervised on-the-job training where the student practices marketing skills learned in the classroom, at an approved training station (job location), with a qualified supervisor. Students enrolled in this course must be 16 years old and work a minimum of 15 hours per week. Students are expected to maintain their marketing job for the entire school year. Instruction emphasizes essential topics such as marketing principles and practices and the functions of marketing which include: marketing-information management, selling, financing, pricing, promotion, product/service management, and distribution. **Students enrolled in this course must provide their own transportation. This course may be eligible for Tech Prep credit. See page 109 for details.**

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**555851 Practicum in Marketing Dynamics**

Grade Placement: 12

Prerequisite: Marketing Dynamics

Credits: 3

This course is a continuation of Marketing Dynamics. The advanced cooperative program allows students to further develop necessary marketing competencies. Students continue with a combination of classroom instruction and on-the-job training. Instruction focuses on accelerated marketing topics such as: marketing function, entrepreneurship, free enterprise system, selling, merchandising, buying, promotion, business environment, and law and ethics. **Students enrolled in this course must provide their own transportation. This course may be eligible for Tech Prep credit. See page 109 for details.**

## CAREER & TECHNICAL EDUCATION

### Science, Technology, Engineering and Mathematics

Plano ISD Course No.	Subject	Grade	Credits
556101	Introduction to Engineering Design (PLTW)	9 – 10	1
556401	Concepts of Engineering and Technology	9 – 10	1
556901	Engineering Design and Presentation *	11 – 12	1
208001	Honors Scientific Research and Design	10 – 12	1-3

\* Tech Prep college credit may be awarded for these courses by Collin College. See page 109 for details.

#### **556101 Introduction to Engineering Design (PLTW)**

Grade Placement: 9 – 10

Prerequisite: Algebra I or concurrent enrollment in Algebra I.

Credit: 1.0

Ever tried to design something new, or wondered how someone designed that new MP3 player or sleek new phone? Then Introduction to Engineering Design is the course for you. The major focus of the course is learning how to take an idea through a design process that will eventually be manufactured or produced. As you learn about various aspects of engineering and engineering design, such as how engineers communicate through drawing, you will apply what you learn through various activities, projects, and problems. You will use Inventor, which is a state of the art 3-D design software package from AutoDesk, to help you design solutions to different design projects. Working in teams, you will learn about documenting your solutions, solving problems, and communicating your solutions to other students and members of the professional engineering community.

#### **556401 Concepts of Engineering and Technology**

Grade Placement: 9 – 10

Prerequisite: None

Credit: 1

Concepts of Engineering and Technology provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will use a variety of computer hardware and software applications to complete projects in the areas of hydraulics, robotics, computerized drafting, design and bridge building, prototype development, operation of computer numerical controlled machines, biotechnology, and many other areas. Students will have the opportunity to work in design teams to develop products and systems that solve real-world technological problems.

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**556901    *Engineering Design  
and Presentation***

Grade Placement: 11 – 12

Prerequisite: None

Credit: 1

Engineering Design and Presentation introduces students to the process of design as it applies to engineering fields using multiple software applications and tools necessary to produce and present working drawings and model renderings. Through implementation of the design process, students will transfer advanced academic skills to component designs. Students will explore career opportunities in engineering, technology, and drafting and what is required to gain and maintain employment in these areas. Students will participate in team projects, use engineering design methodologies, apply concepts of engineering to specific problems, and design products using appropriate design processes and techniques. **This course may be eligible for Tech Prep credit. See page 109 for details.**

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**208001    *Honors Scientific  
Research and Design***

Grade Placement: 10 – 12

Prerequisite: Approval of instructor through application, one credit of Biology or Biology Honors/IH/PreAP (1 credit), concurrent enrollment in honors science

Credit: 1-3

Students will explore science and become acquainted with the scientific community, improve fundamental research skills, apply statistical analysis, and enhance oral and visual presentation techniques. Each student will be required to develop his/her own independent science research project and will learn how to structure, organize, publish, and present the project in one or more formal presentations to a panel of judges. It is required that all student independent research projects be judged. **Successful completion of both semesters of this course will satisfy the 4<sup>th</sup> science credit required for graduation.**

## CAREER & TECHNICAL EDUCATION

### Transportation, Distribution and Logistics

Plano ISD Course No.	Subject	Grade	Credits
557101	Collision Repair and Refinishing	11 – 12	2
557151	Advanced Collision Repair and Refinishing	11 – 12	2
557701	Automotive Technology (1 hour)	11 – 12	1
557201	Automotive Technology (2 hour)	11 – 12	2
557251	Advanced Automotive Technology	11 – 12	2

#### **557101 Collision Repair and Refinishing**

Grade Placement: 11 – 12

Prerequisite: Application is required.

Credits: 2

*What's Next?* Advanced Collision Repair and Refinishing

This is the first year of a two-year course. Students meet two hours daily for classroom and laboratory instruction. The students receive training in the fundamental and manipulative skills related to auto body repair and acquire the knowledge to become competent in the field of auto body repair. Areas covered are body frames, fender and bumper, removing windows and repairing damaged panels, replacing windows and windshields, welding light metals, filling with lead or plastic, estimating and pricing repair work, and spray painting.

**Students participating in optional internships must provide their own transportation.**

#### **557151 Advanced Collision Repair and Refinishing**

Grade Placement: 11 – 12

Prerequisite: Collision Repair and Refinishing  
Application is required.

Credits: 2

This course is a continuation of Collision Repair and Refinishing.

**Students participating in optional internships must provide their own transportation.**

#### **557701 Automotive Technology (1 hour)**

#### **557201 Automotive Technology (2 hour)**

Grade Placement: 11 – 12

Prerequisite: Application is required.

Credits: 1 or 2

*What's Next?* Advanced Automotive Technology

This is the first year of a two-year course. Students meet one or two hours daily for classroom and laboratory instruction. The course offers students theory and experience in most all phases of automotive drive-train repair. Students spend approximately 75 percent of their time with hands-on training and the remaining time is devoted to classroom instruction. Shop management and youth leadership are also incorporated into the course of study. **Students participating in optional internships must provide their own transportation.**

#### **557251 Advanced Automotive Technology**

Grade Placement: 12

Prerequisite: Automotive Technology  
Application is required.

Credits: 2

This course is a continuation of Automotive Technology but also includes new concepts and innovations, new engine types, studies of anti-pollutant equipment on automobile engines, and computerized engine analysis. **Students participating in optional internships must provide their own transportation.**



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