**Introduction to the New Tech High @ Coppell Course Guide**

The New Tech High @ Coppell Course Planning Guide is designed to provide our learners and parents with helpful information regarding the courses offered at NTH@C. Having an understanding of the courses will better assist you and your learner in selecting the appropriate courses for the upcoming year. The NTH@C counselors have an understanding of your learner’s abilities and interests and will offer suggestions and advice based on those abilities.

It is encouraged that you review the courses on the following pages with your learner. One of goals of NTH@C is to offer every course within the course guide; however there are circumstances beyond the control of the school that may prevent us from doing so. Please make sure you are using the current and appropriate graduation chart for your learner’s graduating class.

**New Tech High @ Coppell Front Office Staff**

<table>
<thead>
<tr>
<th>Directors</th>
<th>Title</th>
<th>Email Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Leanne Shivers</td>
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<td><a href="mailto:lshivers@coppellisd.com">lshivers@coppellisd.com</a></td>
</tr>
<tr>
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<td>Assistant Director</td>
<td><a href="mailto:cspannagel@coppellisd.com">cspannagel@coppellisd.com</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Counselors</th>
<th>Alphabet</th>
<th>Email Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trisha Fiene-Spain</td>
<td>A-K</td>
<td><a href="mailto:tfienespain@coppellisd.com">tfienespain@coppellisd.com</a></td>
</tr>
<tr>
<td>Kelly Young</td>
<td>L-Z</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Support Staff</th>
<th>Title</th>
<th>Email Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teresa Whittle</td>
<td>Secretary</td>
<td><a href="mailto:twhittle@coppellisd.com">twhittle@coppellisd.com</a></td>
</tr>
<tr>
<td>Nancy Hinds</td>
<td>Secretary</td>
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</tr>
</tbody>
</table>
SCHEDULE CHANGE POLICY

Registration
● Learner informational meetings will be held during spring registration.
● Learners will be guided through course selection during individual conferences to confirm course selection.

Change Dates
● The last day of the 2015-2016 school year (6/5/2015) will officially end the opportunity for Course Request changes.

Guidelines for Changes During Schedule Pick-Up and First Week of School

During schedule pick up and through the first week of school, only the schedule changes listed in this section will be considered.

- Missing a class period
- Need a course required for graduation (SENIORS only)
- Prerequisite for course not met (SENIORS only)
- Course requested for DAP is not on schedule
- Need to retake a failed course
- Add/Drop UIL Activity
- Northlake classes do not match NTH@C schedule
- Add/Drop Office Aide/Teacher Aide
- Add/Drop Junior Release, Senior Release, and/or AP Study Skills
- Course already successfully completed and credit earned (i.e. summer school, CBE, correspondence, virtual learning)

Changes for the End of the First Six-Weeks

● At the end of the first six weeks of school, only requests to level down will be considered.
● No elective changes will be made.

Changes for the End of First Semester

● At the end of the first semester, only requests to level down will be considered if space is available in the new class.
● No elective changes will be made.
<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan. 20th</td>
<td>Course Guide available online</td>
</tr>
<tr>
<td>Jan. 21st</td>
<td>Learners begin course selection</td>
</tr>
<tr>
<td>Jan 31st</td>
<td>Completed course selection on the Google form</td>
</tr>
<tr>
<td>March 2nd</td>
<td>Rising Sophomore individual meetings</td>
</tr>
<tr>
<td>March 24th</td>
<td>Rising Junior &amp; Senior Parent Meeting</td>
</tr>
<tr>
<td>April 6th</td>
<td>Rising Senior individual meetings</td>
</tr>
<tr>
<td>April 13th</td>
<td>Rising Junior individual meetings</td>
</tr>
<tr>
<td>April 21st</td>
<td>Dual Credit Early Registration Open</td>
</tr>
<tr>
<td>April 24th</td>
<td>All course requests will be entered</td>
</tr>
<tr>
<td>May 1st</td>
<td>Course verification will be sent home</td>
</tr>
<tr>
<td>June 5th</td>
<td>Final date to make changes</td>
</tr>
</tbody>
</table>
### NTH@C Graduation Requirements

**Learners Entering 9th Grade in the Fall of 2011 through 2013**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Distinguished Achievement Program Credits Needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>English/LA</td>
<td>4</td>
</tr>
<tr>
<td>Social Studies</td>
<td>3</td>
</tr>
<tr>
<td>Government</td>
<td>0.5</td>
</tr>
<tr>
<td>Economics</td>
<td>0.5</td>
</tr>
<tr>
<td>Math</td>
<td>4</td>
</tr>
<tr>
<td>Science</td>
<td>4</td>
</tr>
<tr>
<td>PE</td>
<td>1</td>
</tr>
<tr>
<td>Foreign Language (must be same language)</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts*</td>
<td>1</td>
</tr>
<tr>
<td>Technology Applications*</td>
<td>1</td>
</tr>
<tr>
<td>Communication Applications/Speech**</td>
<td>0.5</td>
</tr>
<tr>
<td>Electives</td>
<td>3.5</td>
</tr>
<tr>
<td>DAP measures</td>
<td>4</td>
</tr>
<tr>
<td>TOTAL</td>
<td>26</td>
</tr>
</tbody>
</table>

* This credit is usually obtained through Sophomore level DP II.

** Qualifying DAP measures:**

- Complete original research or project that is judged by a panel of professionals or that is conducted under the direction of a mentor and reported to an appropriate audience and related to the required curriculum set forth in the Essential Knowledge and Skills base for the state of Texas. This is called a Capstone project at New Tech.
- Earn a score of 3 or above on a College Board Advanced Placement exam (equates to one dual credit class or 3 credit hours).
- Earn a score on the PSAT that qualifies for recognition as a Commended Scholar or higher; a part of the National Hispanic Scholar Program; or part of the National Achievement Scholarship Program for Outstanding African American Students.
- Earn a grade of 80 (3.0) or higher on courses that count for college credit (Dual Credit).
NEW TEXAS STATE ASSESSMENT REQUIREMENTS FOR GRADUATION
FOR 2015-2016 SOPHOMORES, JUNIORS, AND SENIORS

The State of Texas Assessments of Academic Readiness or STAAR will replace the Texas Assessment of Knowledge and Skills (TAKS), which is the criterion-reference assessment program that has been in place since 2003. The new tests will be used beginning in the 2011-2012 school year. Learners must meet the end-of-course testing requirements, as well as pass their classes, in order to earn a diploma. Required End of Course Assessments:

- English I, English II
- Algebra I
- Biology
- U.S. History
GRADING

Grade points are assigned to each semester grade as follows. Any semester grade below 70 is averaged into a student’s GPA with “0” grade points.

<table>
<thead>
<tr>
<th>Grades</th>
<th>Level 4 AP and other designated courses</th>
<th>Level 3 Pre-AP, Dual Credit and other designated courses</th>
<th>Level 2 On Grade Level courses</th>
<th>Level 1 Modified Curriculum and other designated courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>97-100</td>
<td>6.0</td>
<td>5.5</td>
<td>5.0</td>
<td>4.0</td>
</tr>
<tr>
<td>94-96</td>
<td>5.8</td>
<td>5.3</td>
<td>4.8</td>
<td>3.8</td>
</tr>
<tr>
<td>90-93</td>
<td>5.6</td>
<td>5.1</td>
<td>4.6</td>
<td>3.6</td>
</tr>
<tr>
<td>87-89</td>
<td>5.4</td>
<td>4.9</td>
<td>4.4</td>
<td>3.4</td>
</tr>
<tr>
<td>84-86</td>
<td>5.2</td>
<td>4.7</td>
<td>4.2</td>
<td>3.2</td>
</tr>
<tr>
<td>80-83</td>
<td>5.0</td>
<td>4.5</td>
<td>4.0</td>
<td>3.0</td>
</tr>
<tr>
<td>77-79</td>
<td>4.8</td>
<td>4.3</td>
<td>3.8</td>
<td>2.8</td>
</tr>
<tr>
<td>74-76</td>
<td>4.6</td>
<td>4.1</td>
<td>3.6</td>
<td>2.6</td>
</tr>
<tr>
<td>71-73</td>
<td>4.4</td>
<td>3.9</td>
<td>3.4</td>
<td>2.4</td>
</tr>
<tr>
<td>70</td>
<td>4.2</td>
<td>3.7</td>
<td>3.2</td>
<td>2.2</td>
</tr>
</tbody>
</table>

Dual Credit courses will earn GPA points on the following scale:
A = 5.5          B = 4.9          C = 4.3          D = 3.7

LOCAL CREDIT
Learners can gain local credit by taking local credit classes. However, these credits cannot be used to meet the 26 state credits that are required on the Recommended Graduation Plan or the Distinguished Achievement Plan. These courses are not calculated in GPA. Local credit is granted for the following courses:

- Office/Teacher Aide
- Tech Force Aide
- Study Skills
CISD CLASS RANKING AND GPA POLICY

- Beginning with the 2010-2011 school year, NTH@C ranks only the top 10% of the class.
- The first time GPA and class rank are available is in the spring of the sophomore year after fall grades are posted, usually early February.
- Junior GPA and class rank are updated in June and February after semester grades are posted.
- Senior GPA and class rank are updated in June, October (to reflect summer grades and changes in enrollment), and February after semester grades are posted.
- Final class rank of the top 10% of the graduating class will be calculated at the end of the 1st semester of the senior year. However, a student’s GPA continues through the end of their senior year.
- Students entering 9th grade in 2011-2012 and thereafter will have their GPA calculated as follows:
  - GPA will be calculated for all courses receiving state credit, including those high school credits received in middle school.
  - Rank in Class (RIC) will be based on the GPA in the following courses, including high school level courses taken in eighth grade. These courses are designated by the ® symbol throughout the curriculum course guide.

English Language Arts

Pre-AP English I
Pre-AP English II
Pre-AP English III
AP English III
AP English IV
English IV
ENGL 1301: Composition I  Dual Credit
ENGL 1302: Composition II  Dual Credit
ENGL 2321: British Literature  Dual Credit
ENGL 2322: British Literature  Dual Credit
ENGL 2326: American Literature  Dual Credit
ENGL 2327: American Literature  Dual Credit

Social Studies

Pre-AP World Geography Studies
AP Human Geography
Pre-AP World History Studies
Pre-AP US History
AP United States History
Government
Economics/Free Enterprise
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 1301</td>
<td>History of US to 1877</td>
<td>Dual Credit</td>
</tr>
<tr>
<td>HIST 1302</td>
<td>History of US to 1877</td>
<td>Dual Credit</td>
</tr>
<tr>
<td>GOVT 2305</td>
<td>American Government I</td>
<td>Dual Credit</td>
</tr>
<tr>
<td>GOVT 2306</td>
<td>American Government II</td>
<td>Dual Credit</td>
</tr>
<tr>
<td>ECON 2301</td>
<td>Principles of Macro-Economics</td>
<td>Dual Credit</td>
</tr>
<tr>
<td>ECON 2302</td>
<td>Principles of Micro-Economics</td>
<td>Dual Credit</td>
</tr>
<tr>
<td>PSYC 2301</td>
<td>Introduction to Psychology</td>
<td>Dual Credit</td>
</tr>
<tr>
<td>SOCI 1301</td>
<td>Introduction to Sociology</td>
<td>Dual Credit</td>
</tr>
<tr>
<td>PHIL 1301</td>
<td>Introduction to Philosophy</td>
<td>Dual Credit</td>
</tr>
<tr>
<td>PHIL 2306</td>
<td>Ethics</td>
<td>Dual Credit</td>
</tr>
</tbody>
</table>

**Science**

- Pre-AP Biology
- Pre-AP Chemistry
- Pre-AP Conceptual Physics
- AP Biology
- AP Physics B
- AP Physics C
- Anatomy & Physiology
- Forensic Science

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1406</td>
<td>Biology for Science Majors I w/lab</td>
<td>Dual Credit</td>
</tr>
<tr>
<td>BIOL 1407</td>
<td>Biology for Science Majors II w/lab</td>
<td>Dual Credit</td>
</tr>
<tr>
<td>BIOL 1408</td>
<td>Biology for non-Science Majors I w/lab</td>
<td>Dual Credit</td>
</tr>
<tr>
<td>BIOL 1409</td>
<td>Biology for non-Science Majors II w/lab</td>
<td>Dual Credit</td>
</tr>
<tr>
<td>BIOL 1322</td>
<td>Principles of Nutrition</td>
<td>Dual Credit</td>
</tr>
<tr>
<td>CHEM 1405</td>
<td>Introductory Chemistry I w/lab</td>
<td>Dual Credit</td>
</tr>
<tr>
<td>CHEM 1407</td>
<td>Introductory Chemistry II w/lab</td>
<td>Dual Credit</td>
</tr>
<tr>
<td>CHEM 1411</td>
<td>General Chemistry I w/lab</td>
<td>Dual Credit</td>
</tr>
<tr>
<td>CHEM 1412</td>
<td>General Chemistry II w/lab</td>
<td>Dual Credit</td>
</tr>
<tr>
<td>PHYS 1401</td>
<td>College Physics I w/lab</td>
<td>Dual Credit</td>
</tr>
<tr>
<td>PHYS 1402</td>
<td>College Physics II w/lab</td>
<td>Dual Credit</td>
</tr>
<tr>
<td>PHYS 1405</td>
<td>Conceptual Physics I</td>
<td>Dual Credit</td>
</tr>
<tr>
<td>PHYS 1407</td>
<td>Conceptual Physics II</td>
<td>Dual Credit</td>
</tr>
<tr>
<td>GEOL 1403</td>
<td>Physical Geology</td>
<td>Dual Credit</td>
</tr>
<tr>
<td>GEOL 1404</td>
<td>Historical Geology</td>
<td>Dual Credit</td>
</tr>
<tr>
<td>PHED 1304</td>
<td>Health for Today</td>
<td>Dual Credit</td>
</tr>
</tbody>
</table>

**Mathematics**

- Pre-AP Algebra I
- Pre-AP Geometry
- Pre-AP Algebra II
- Pre-AP Pre-calculus: Preparation for Calculus
- AP Calculus AB
- Advanced Quantitative Reasoning
- AP Statistics
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1314</td>
<td>College Algebra</td>
<td>Dual</td>
</tr>
<tr>
<td>MATH 1316</td>
<td>Plane Trigonometry</td>
<td>Dual</td>
</tr>
<tr>
<td>MATH 1350</td>
<td>Teaching Math in Elem and Middle School I</td>
<td>Dual</td>
</tr>
<tr>
<td>MATH 2342</td>
<td>Introductory Statistics</td>
<td>Dual</td>
</tr>
<tr>
<td>ACCT 2301</td>
<td>Principles of Accounting I</td>
<td>Dual</td>
</tr>
<tr>
<td>ACCT 2302</td>
<td>Principles of Accounting II</td>
<td>Dual</td>
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</tbody>
</table>

### Languages Other Than English

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-AP Spanish I</td>
<td></td>
<td>Dual</td>
</tr>
<tr>
<td>Pre-AP Spanish II</td>
<td></td>
<td>Dual</td>
</tr>
<tr>
<td>Pre-AP Spanish III</td>
<td></td>
<td>Dual</td>
</tr>
<tr>
<td>Pre-AP Spanish IV</td>
<td></td>
<td>Dual</td>
</tr>
<tr>
<td>Pre-AP Spanish V</td>
<td></td>
<td>Dual</td>
</tr>
<tr>
<td>Pre-AP Chinese I</td>
<td></td>
<td>Dual</td>
</tr>
<tr>
<td>Pre-AP Chinese II</td>
<td></td>
<td>Dual</td>
</tr>
<tr>
<td>Pre-AP Chinese III</td>
<td></td>
<td>Dual</td>
</tr>
<tr>
<td>SPAN 1311</td>
<td>Beginning Spanish I</td>
<td>Dual</td>
</tr>
<tr>
<td>SPAN 1312</td>
<td>Beginning Spanish II</td>
<td>Dual</td>
</tr>
<tr>
<td>SPAN 2311</td>
<td>Intermediate Spanish I</td>
<td>Dual</td>
</tr>
<tr>
<td>SPAN 2312</td>
<td>Intermediate Spanish II</td>
<td>Dual</td>
</tr>
<tr>
<td>FREN 1311</td>
<td>Beginning French I</td>
<td>Dual</td>
</tr>
<tr>
<td>FREN 1312</td>
<td>Beginning French II</td>
<td>Dual</td>
</tr>
<tr>
<td>FREN 2311</td>
<td>Intermediate French I</td>
<td>Dual</td>
</tr>
<tr>
<td>FREN 2312</td>
<td>Intermediate French II</td>
<td>Dual</td>
</tr>
<tr>
<td>SGNL 1301</td>
<td>Beginning American Sign Language I</td>
<td>Dual</td>
</tr>
<tr>
<td>SGNL 1302</td>
<td>Beginning Sign Language II</td>
<td>Dual</td>
</tr>
<tr>
<td>SGNL 2301</td>
<td>Intermediate American Sign Language I</td>
<td>Dual</td>
</tr>
<tr>
<td>CHIN 1311</td>
<td>Beginning Chinese I</td>
<td>Dual</td>
</tr>
<tr>
<td>CHIN 1312</td>
<td>Beginning Chinese II</td>
<td>Dual</td>
</tr>
<tr>
<td>CHIN 2311</td>
<td>Intermediate Chinese I</td>
<td>Dual</td>
</tr>
<tr>
<td>CHIN 2312</td>
<td>Intermediate Chinese II</td>
<td>Dual</td>
</tr>
<tr>
<td>JAPN 1311</td>
<td>Beginning Japanese I</td>
<td>Dual</td>
</tr>
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<td>JAPN 1312</td>
<td>Beginning Japanese II</td>
<td>Dual</td>
</tr>
<tr>
<td>KORE 1311</td>
<td>Beginning Korean I</td>
<td>Dual</td>
</tr>
<tr>
<td>KORE 1312</td>
<td>Beginning Korean II</td>
<td>Dual</td>
</tr>
<tr>
<td>KORE 2311</td>
<td>Intermediate Korean I</td>
<td>Dual</td>
</tr>
<tr>
<td>KORE 2312</td>
<td>Intermediate Korean II</td>
<td>Dual</td>
</tr>
</tbody>
</table>
Course Descriptions

Humanities (English & Social Studies)

® World Studies
Prerequisite: Global Issues        Level 3 course        Full year 1 credit English II
1 credit World History

World Studies integrates the academic disciplines of World History and English Language Arts & Reading II. Throughout the year, we will examine fundamental topics such as cultural diversity, political and economic revolutions, human environmental interactions, development of human relationships, development of human thought, as well as historical foundations and their impacts on current events. As part of the oral and written analysis of these subjects, we will use primary sources, secondary sources, nonfiction and literary lenses to gain insight on our place in history, as members of the community and 21st century citizens of our planet.

® American Studies
Prerequisite: World Studies        Level 3 course        Full year 1 credit English III
1 credit U.S. History

The American Studies integrates junior level, pre-AP, English III and U.S. History. The course will be taught thematically, and through a project-based learning lens. It is designed to provide students with the analytical skills and enduring understandings necessary to deal critically with the problems and materials in United States history. The course is also designed to help learners become aware of a writer's purposes, audience expectations, and subjects as both readers and writers of English.

® AP American Studies
Prerequisite: World Studies        Level 4 course        Full year 1 credit English III
1 credit U.S. History

The AP American Studies course is the marriage of AP Language and Composition and AP U.S. History at the junior level, guided by College Board course requirements. The course will be taught thematically, and through a project-based learning lens. It is designed to provide students with the analytical skills and enduring understandings necessary to deal critically with the problems and materials in United States history. The course is also designed to help students become skilled readers of prose written in a variety of rhetorical contexts and to become skilled writers who compose for a variety of purposes.
**English IV**  
Prerequisite: American Studies  
Level 3 course  
Full year  
1 credit

The senior-level English course is designed to engage learners in the rigorous study of rhetoric. Similar to a university freshman composition course, learners will be challenged to begin analyzing texts for evidence of the writer’s craft. In other words, learners must come to recognize that the content of a given text cannot be studied independently from its form—the what is no more important than the how. These considerations range from the use of rhetorical devices, including tone, diction, audience, organization, appeal, style and attitude. Learners will also discover the ways in which the crafting of an argument must be shaped to fit audience and genre. From studying these elements in the work of others (fiction, nonfiction and poetry), learners will write (both formally and informally) in the expository, analytical and argumentative modes.

**AP Literature**  
Prerequisite: American Studies  
Level 4 course  
Full year  
1 credit

The senior-level AP English Literature and Composition course engages learners in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, learners deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, learners consider a work’s structure, style and themes, as well as such smaller-scale elements as figurative language, imagery, symbolism and tone. Learners will develop their skills as critical thinker and writers, composing intensive analyses of works they encounter.

**Economics**  
Prerequisite: Junior or Senior level  
Level 3 course  
Semester course  
.5 credit

Economics focuses on the basic principles concerning the production, consumption, and distribution of goods and services in the United States and a comparison with those in other countries around the world. The course focuses on the interaction of supply, demand, and price and the concepts of specialization and international trade, economic growth, key economic measurements, and monetary and fiscal policy. Throughout this course, learners study business models, market structures and the roles of the Federal Reserve System and other financial institutions, governments, and businesses in a free enterprise system.
**Government**
Prerequisite: Junior or Senior level  
Level 3 course  
Semester course .5 credit

Government focuses on the principles and beliefs upon which the United States was founded and on the structure, functions, and powers of government at the national, state, and local levels. Learners study major political ideas and forms of government in history. A significant focus of the course is on the U.S. Constitution, its underlying principles and ideas, and the form of government it created. Throughout this course, learners examine the relationship between governmental policies and the culture of the United States.

**Math**

**Geometry**
Prerequisite Algebra 1  
Level 3 Course  
Full year  
1 credit

Project-based Geometry will introduce learners to plane geometry with integration of some spacial and coordinate geometry, concepts of transformational geometry, measurement, and the basic concepts of right triangle trigonometry. This class develops geometric concepts using formal proofs and algebraic applications. Algebra is used extensively for area, volume, length, angle measures, and graphing.

**Algebra II**
Prerequisite Algebra I, Geometry  
Level 3 Course  
Full year  
1 credit

Problem-based Algebra II is the continuation of concepts learned in algebra and geometry. We revisit algebra concepts in a deeper, more meaningful way, and introduce new concepts through exploration, discovery, and hands-on approaches to prepare for higher level math. Topics include functions, statistics, trigonometry, and physics. We explore Algebra II in context with science, art, current events, and international issues.

**Pre-Calculus**
Prerequisite Algebra I, Geometry, Algebra II  
Level 3 Course  
Full year  
1 credit

Precalculus explores patterns and single variable relationships found in our world. This class will cover the topics of algebra, trigonometry, and analytical geometry. In addition to introducing calculus, algebra and multi-layer problem solving skills are strengthened.
**AP Calculus AB**

Prerequisite: Alg I, Geometry, Alg II, Pre-calculus  
Level 4 Course  
Full year  
1 credit

In this course, learners will study the branch of mathematics that deals with rates of change in continuous and varying quantities. The study of calculus improves and sharpens cognitive skills. This course provides a journey to the edge of mathematical reasoning. Calculus is used in business, medical, engineering, and many other areas of study. College credit may be awarded for this class depending on AP test scores and individual university requirements.

**AP Statistics**

Prerequisite: Alg I, Geometry, Alg II  
Level 4 Course  
Full year  
1 credit

Through real world projects and scenarios, learners will uncover attributes about themselves, their peers, and the world around them. Learners will explore the depth of human nature by applying statistical methods to the topics of sociology, psychology, economics, education, political science, biology, epidemiology, quality control, and demography. Human Statistics is the intersection of math and the humanities. College credit may be awarded for this class depending on AP test scores and individual university requirements.

**Advanced Quantitative Reasoning**

Prerequisite: Algebra I, Geometry, Algebra II  
Level 3 Course  
Full year  
1 credit

Problem-based Advanced Quantitative Reasoning (AQR) is a mathematics course infused with liberal arts that follows Algebra I, Geometry, and Algebra II. The course emphasizes statistics and financial applications, and it prepares students to use algebra, geometry, trigonometry, and discrete mathematics to model a range of situations and solve problems.

**Science**

**Scientific Analysis**

Prerequisite: Biotech Ethics  
Level 3 course  
Full year  
1 credit Chemistry  
Embedded Course credit: ½ credit Technical Writing

This course will be cover characteristics of matter, energy transformations during physical and chemical changes, atomic structure, periodic table of elements, behavior of gases, bonding, nuclear fusion and fission, oxidation-reduction reactions, chemical equations and reactions, solutes, properties of solutions, acids and bases. It will develop your skills for writing persuasive and informative texts such as essays, reports, proposals, and memoranda as well as research and presentation of information in a variety of media.
**Conceptual Physics**
*Prerequisite: Chemistry*  
*Level 3 course Full year 1 credit*

This course provides a conceptually-based exposure to the fundamental principles and processes of the physical world. Topics include basic concepts of motion, forces, energy, heat, electricity, magnetism, and the structure of matter and the universe. Upon completion, students should be able to describe examples and applications of the principles studied.

**AP Physics 1**
*Prerequisite: Chemistry*  
*Level 4 course Full year 1 credit*

This course is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills.

**Forensic Science**
*Prerequisite: Physics*  
*Level 3 course Full year 1 credit*

This course is a comprehensive introduction to forensic science. Learners in this class will study scientific topics as they apply to the law including evidence, crime scenes, and legal procedures.

**Anatomy and Physiology**
*Prerequisite: Bio-Tech Ethics, Scientific Analysis, Physics*  
*Level 3 course Full year 1 credit*

This course is a comprehensive introduction to anatomy and physiology. Comparative vertebrate anatomy will be studied with a focus on humans. All NTH@C anatomy and physiology learners will be required to keep an online laboratory notebook with up-to-date notes and lab reports.

**AP Biology**
*Prerequisite: Bio-Tech Ethics, Scientific Analysis, Physics*  
*Level 4 course Full year 1 credit*

AP Biology is a course designed to be the equivalent of a two-semester college introductory biology course. All NTH@C AP Biology learners will be required to keep an online laboratory notebook with up-to-date notes and lab reports. Learners will be prepared for and have the option to take the AP Biology exam in the spring. College credit may be awarded for this class depending on AP test scores and individual university requirements.
Foreign Language

®Spanish II
Prerequisite: Spanish I            Level 3 course            Full year            1 credit

The learners in this course will continue to build language skills through participating in real world projects designed to facilitate effective communication and cross-cultural understanding. The communication skills included are reading, writing, listening, and speaking. We will explore cultural connections and comparisons and our role as global citizens. Grammatical structures will include the present, preterite and imperfect tenses.

®Spanish III
Prerequisite: Spanish I-II          Level 3 course          Full year          1 credit

The learners in this course are exposed to a review of grammatical structures, formal and informal writing, conversational practice, culture, and listening/reading comprehension activities. Review material will be presented during the first few weeks. Additional grammatical structures in Spanish will include: preterit/imperfect tenses, the subjunctive. Vocabulary will be determined by course projects.

®Spanish IV
Prerequisite: Spanish I-III         Level 3 course         Full year         1 credit

The learners in this course are exposed to a review of grammatical structures, formal and informal writing, conversational practice, culture, and listening/reading comprehension activities. Review material will be presented during the first few weeks. Additional grammatical structures in Spanish will include: preterit/imperfect tenses, the subjunctive, the pluperfect tenses, etc. Vocabulary will be determined by course projects.

®Spanish V
Prerequisite: Spanish I-IV          Level 4 course         Full year         1 credit

The learners in this course are exposed to an in-depth review of grammatical structures, formal and informal writing, conversational practice, culture, and listening/reading comprehension activities. This course is a project-based facilitated course. Literature will often be assigned in various formats and genres. Poetry in Spanish will be synthesized into our projects. Online newspapers and articles in the target language will be studied weekly. ALL COURSES: All Spanish learners will continue to build their language base through reading, writing, listening, speaking, and culture.
Chinese I
Prerequisite: None
Level 3 course Full year 1 credit

This course is an introduction Chinese language course for learners who have little or no prior experience in the language. It is to develop learners’ four skills of listening, speaking, reading, and writing the Chinese language, as well as gaining understanding of Chinese culture. Pinyin (phonetic symbols) will be used as a supplementary tool to learn the spoken language. Learners will be asked to recognize either simplified or traditional form characters from memory.

Chinese II
Prerequisite: Chinese I
Level 3 course Full year 1 credit

This course is a continuation course designed for students who already have the basics of Chinese (e.g. pinyin, four tones), learned either through taking Chinese I, or through taking a CBE for Chinese I. The emphasis of this course is on listening, speaking and reading Chinese, plus some exercises with writing skills. Additionally, the course will integrate the Chinese culture into the language learning and enhance the practices of Chinese language.

Chinese III
Prerequisite: Chinese II
Level 3 course Full year 1 credit

In this course, learners will engage in conversation, provide and obtain information, and exchange opinions on various topics including current events. Learners will understand and interpret written and spoken Chinese on a variety of topics including current and historical events. Learners will demonstrate an understanding of Chinese culture. They will demonstrate their ability to express themselves in written and spoken Chinese using complex sentence structures and increasing vocabulary appropriate to the third year.

Fine Arts

Beginning Photography II
Prerequisite: DPII
Level 3 course Full year 1 credit

Photography II is for those learners who are interested in digital photography and need a beginning course. Adobe Bridge, Photoshop CS6, and Camera Raw will be incorporated while employing critical-thinking and interpersonal skills. Learners work independently and in teams to solve problems that analyze the impact of photography on society, including concepts related to persuasiveness, marketing, point of view, and advocacy of the arts in the community.
Advanced Photography III
Prerequisite: Photography II
Level 3 course Full year 1 credit

After studying the foundational principles and theories related to photography in Beginning Photo II, the learner will turn their focus to the world of art photography using digital photography as a medium. A variety of challenging projects will be introduced while the learner works towards finding a personal concentration of interest.

Electives

Animation
Prerequisite: DPII
Level 3 course Full year 1 credit

The Animation course will serve to greatly expand your knowledge and abilities in the digital graphics and digital art world. Learners will focus on image manipulation in both realistic and fantastic ways, will learn how to create and utilize vector graphics, will learn how to create basic animation, and much more. This class is very learner-centric and is always customized to the interest and level of the class.

Introduction to Computer Programming
Prerequisite: Junior Year
Level 3 course Full year 1 credit

Introduction to Computer Programming will serve as a foundation course for any future programming interest the learner may have. We will work at the classes’ pace and cover all of the basic fundamentals of writing, compiling, and running computer programs. This class is very learner-centric and is always customized to the interest and level of the class.

NT Fuze Level 1
Prerequisite: DPI/Virtual Business
Level 3 course Full year 1 credit

This course is an introduction to media technology. In NT Fuze, we will explore different forms of film including broadcasts, shorts, and documentaries. Learners will leave the NT Fuze level 1 course with an understanding of the workflow involved in working in the video realm.

NT Fuze Level 2
Prerequisite: NT Fuze 1
Level 3 course Full year 1 credit

NT Fuze Level 2 learners will explore different forms of film and video production. In this course, learners will create films for the NT Fuze show and content for fuze.com. Learners are expected to enter their work into various film festivals and contests. During the course of the year, learners will create an independent film of their choice.
NT Fuze Level 3
Prerequisite: NT Fuze II

Fuze III learners will explore advanced screenwriting and pre-production preparation. The learners will deepen their screen production level with audio, lighting, and cinematography skills. This class will learn advance screen editing, graphic building, and special effect techniques. Fuze III learners will be the leadership for the school-wide Fuze program every six weeks.

Team Leadership
Prerequisite: None

Team Leadership helps students develop their self-confidence and leadership skills, as well as techniques, skills, and principles for use in their professional and personal development. Learners have the opportunity to learn how to speak and present their ideas to make a difference. In becoming global leaders, they work with a diverse group of people in discussion, planning, and action! As learners go through this growth process, they develop an understanding of how their thoughts, words, and actions play a major role in the development of relationships in their community and world. They will embrace a positive, family-oriented atmosphere through consistent team-building and open communication.

Current Events
Prerequisite: Sophomore, Junior or Senior

Current Events provides opportunities to develop a greater understanding of the historic, political, economic, geographic, multicultural, and social forces that have shaped our lives and the world in which we live. Throughout this course, learners use social science knowledge and skills to engage in rational and logical analysis of complex problems using a variety of approaches, while recognizing and appreciating diverse human perspectives.

Creative Writing
Prerequisite: American Studies

Creative Writing is a senior elective designed to introduce interested learners to the artistic craft of creative writing through both careful study of representative texts across creative genres (fiction, nonfiction, poetry and drama) and students' own creative work. The goal is to learn the craft of writing through a full immersion in quality literature. Then, learners will use this knowledge in a true writer's workshop, creating drafts and revising them through careful study and collaboration. The goal is to produce work of publishable quality as well as enjoy new experiences in unexplored areas of writing.
**Entrepreneurship**
Prerequisite: DPI/Virtual Business  
Level 2 course  
Full year  
1 credit

Learners in Entrepreneurship will go through the steps of researching, developing, planning and running an actual business. The business will be based upon learner research and perceived campus need. The learners will then research and develop a plan to be approved to run the business. The last phase in the class will be the implementation of the business and managing the day to day operations.

**Yearbook I**
Prerequisite: None  
Level 2 course  
Full year  
1 credit

This class is responsible for the creation of the school yearbook. This rigorous course is deadline heavy and requires a lot of time outside of class, hard work and self-discipline.

Learners are responsible for:
- Layout, organization and design
- Photographing events, games and school activities
- Professional writing
- Meeting deadlines set by Jostens Yearbook company

**Yearbook II**
Prerequisite: Yearbook 1  
Level 2 course  
Full year  
1 credit

This class is responsible for the creation of the school yearbook. This rigorous course is deadline heavy and requires a lot of time outside of class, hard work and self-discipline.

Learners are responsible for:
- Layout, organization and design
- Photographing events, games and school activities
- Professional writing
- Meeting deadlines set by Jostens Yearbook company

*Application required. See Yearbook facilitator for application information.*
**Yearbook III**  
*Prerequisite: Yearbook II*  
*Level 2 course*  
*Full year*  
*1 credit*

This class is responsible for the creation and editing of the school yearbook. This rigorous course is deadline heavy and requires a lot of time outside of class, hard work and self-discipline. Application required.

Learners are responsible for:
- Layout, organization and design
- Photographing events, games and school activities
- Professional writing
- Meeting deadlines set by Jostens Yearbook company

*Application required. See Yearbook facilitator for application information.*

**Learner Leadership Council-LLC (Application Only)**  
*Prerequisite: Application and interview*  
*Level 2 course*  
*Full year*  
*1 credit*

The Learner Leadership Council (LLC) is a group of learners who represent the learner body of New Tech High @ Coppell in making and leading innovative decisions towards furthering our schools development and improvement. We strive to provide all learners with an outlet to voice their thoughts, concerns, opinions and creativity through a council who will brainstorm and implement important ideas for our school culture. If you would like to be a part of the LLC at NTH@C, we hold an application process during the spring of every school year for the following year. To complete the application process you have to submit an application to the LLC facilitators. We will hold interviews for each application submitted.

**Networking Team Captain-NTC (Application Only)**  
*Prerequisite: Application and interview*  
*Level 2 course*  
*Full year*  
*1 credit*

Networking Team Captains (NTC) is a leadership based course that is comprised of learners who are dedicated to building culture and unity at NTH@C. The main responsibilities include planning and implementing Wednesday Networking activities, school-wide Wonderful Wednesdays and other service projects at NTH@C. These learners are an intricate part of the NTH@C culture and strive to ensure a strong “family feel” within our school. Learners are selected for the course through an application process in the spring.
Local Credit Electives

**Study Skills**
Prerequisite: None

Level 3 Course
Full year
1 local credit

Study Skills is a locally developed elective that prepares learners for success on the SAT, ACT, and AP exams. The course addresses the content knowledge, test structures and formats, and universal study skills and habits required to achieve success on these standardized exams. The course is taught through blended learning where the course content is delivered and submitted online while the facilitators serve as a resource and teach workshops as needed to complete the weekly assignments.

**Tech Force**
Prerequisite: none

Full year 1 local credit

Learners will be responsible for checking in/out cameras, tripods, and spare laptops via the Destiny website. They will also replace toner cartridges, refill paper trays on Dell printers, set up speakers and mic for special events, assist in setting up the big projector screen, provide facilitators with video/audio cables and projector remotes, assign time slots for students to meet with the PC support tech, assist students with minor troubleshooting of laptops, and reimage laptops as directed by the PC support tech.

**Staff Aide (Teacher/Office)**
Prerequisite: none

Full year 1 local credit

Learners will be responsible for assisting the staff in a variety of tasks to ensure efficiency and productivity. This opportunity is for learners to work with organization and leadership. Learners should be self-motivated and demonstrate a high-level of responsibility.

**Physical Education**

**Team Sports (fall semester)**
Prerequisite: None

Level 2 course
Fall semester
0.5 credit

Extends and reinforces the development of skills, increases knowledge, and builds positive attitudes in team sports. Selections may include the following sports or a combination of the following: basketball, flag football, softball, volleyball, team handball, soccer, flicker ball. Physical fitness will also be included.
**Personal Fitness (spring semester)**

*Prerequisite: None*  
*Level 2 course*  
*Spring semester 0.5 credit*

This is a fitness course based on an understanding of the physiological factors involved in exercise that incorporate muscular strength and endurance, flexibility, and cardiovascular endurance. Learners will actively participate to reinforce knowledge for lifetime fitness.

**Off-Campus P.E. (Category I or II)**

*Prerequisite: Approval required*  
*Level 2 course*  
*Half year 0.5 credit*

Guidelines and applications may be found on the NTH@C website under Academics/Off Campus PE. Learners are responsible for turning in the OCPE application to their counselor with their other course requests. Fees will be paid in August at schedule pick-up. The learner will be responsible for returning the grade evaluation form completed by the course instructor to CHS one week prior to the end of the current grading period. Please see the application for further requirements and information.

Course Fees & Materials: $75/semester or $150/year due prior to the semester begins.

Category I: Olympic level participation

Category II: Highly intense, competitive performance outside the regular school day

**Embedded Courses**

**Professional Communication**

*Embedded with Digital Portfolio I*  
*No Level*  
*Full Year*  
*0.5 credit*

Embedded into all NTH@C courses with the Oral Communication Learning outcomes. After two years of completed coursework at NTH@C, Learners will receive ½ credit of speech on their transcript.

**Technical Writing**

*Embedded with Scientific Analysis (10th grade)*  
*No Level*  
*Full Year*  
*0.5 credit*

The study of technical writing allows high school students to earn one-half to one credit while developing skills necessary for writing persuasive and informative texts. This rigorous composition course asks high school students to skillfully research a topic or a variety of topics and present that information through a variety of media. All students are expected to demonstrate an understanding of the recursive nature of the writing process, effectively applying the conventions of usage and the mechanics of written English. The students' evaluation of their own writing as well as the writing of others ensures that students completing this course are able to analyze and discuss published and unpublished pieces of writing, develop and apply criteria for effective writing, and set their own goals as writers.
Psychology
Embedded with Biotech Ethics  No Level  Full Year  .5 credit

In Psychology students study the science of behavior and mental processes. Students examine the full scope of the science of psychology such as the historical framework, methodologies, human development, motivation, emotion, sensation, perception, personality development, cognition, learning, intelligence, biological foundations, mental health, and social psychology.

*** Information in this course guide is subject to change. Most recent and up to date information will be on the NTH@C website.