

NYOS Charter School

# 2008-2009 HIGH SCHOOL CATALOG





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## ***Distinguished Graduation Plan***

*For students who entered 9th Grade before 2007*



- 4 credits of English Language Arts  
English 1, 2, 3, and 4
- 3 credits of Math\*  
Must consist of Algebra 1, Geometry, and Algebra 2
- 3 credits of Science\*  
Must consist of Biology and two additional credits  
from: IPC, Chemistry, or Physics
- 4 credits of Social Studies  
World Geography (1 credit)  
World History (1 credit)  
US History since Reconstruction (1 credit)  
US Government (1/2 credit)  
Economics (1/2 credit)
- **3 credits of Languages Other than English**  
**Must consist of Level 1, 2, and 3 of the same language**
- 1 ½ credits of Physical Education (limit 2 credits)
- ½ credit of Health Education
- 1 credit of Technology Applications
- 1 credit of Fine Arts
- ½ credit of Speech
- **2 ½ elective credits**

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24 Credits Total **plus four advanced measures consisting of any combination of the following:**

- Test data (PSAT National Merit Scholarship score, AP Exam score of 3 or above, or IB Exam score of 4 or above)
- College or dual credit courses with a 3.0 or higher
- Original research or project (counts as two advanced measures)

\*Four credits are recommended for college-bound students.

## ***Recommended Graduation Plan***

*For students who entered 9th Grade before 2007*



- 4 credits of English Language Arts  
English 1, 2, 3, and 4
- 3 credits of Math\*  
Must consist of Algebra 1, Geometry, and Algebra 2
- 3 credits of Science\*  
Must consist of Biology and two additional credits  
from: IPC, Chemistry, or Physics
- 4 credits of Social Studies  
World Geography (1 credit)  
World History (1 credit)  
US History since Reconstruction (1 credit)  
US Government (1/2 credit)  
Economics (1/2 credit)
- 2 credits of Languages Other than English  
Must consist of Level 1 and 2 of the same language
- 1 ½ credits of Physical Education (limit 2 credits)
- ½ credit of Health Education
- 1 credit of Technology Applications
- 1 credit of Fine Arts
- ½ credit of Speech
- 3 ½ elective credits

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24 Credits Total

\*Four credits are recommended for college-bound students.

## ***Distinguished Graduation Plan***

*For students entering 9<sup>th</sup> Grade 2007 and after*



- 4 credits of English Language Arts  
English 1, 2, 3, and 4
- 4 credits of Math  
**Must consist of Algebra 1, Geometry, and Algebra 2 plus one credit higher than Algebra 2**
- 4 credits of Science  
**Must consist of Biology , Chemistry, and Physics plus one additional lab-based science credit (IPC does not meet the requirement)**
- 4 credits of Social Studies  
World Geography (1 credit)  
World History (1 credit)  
US History since Reconstruction (1 credit)  
US Government (1/2 credit)  
Economics (1/2 credit)
- **3 credits of Languages Other than English**  
**Must consist of Level 1 , 2, and 3 of the same language**
- 1 ½ credits of Physical Education (limit 2 credits)
- ½ credit of Health Education
- 1 credit of Technology Applications
- 1 credit of Fine Arts
- ½ credit of Speech
- **2½ elective credits**

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26 Credits Total **plus four advanced measures consisting of any combination of the following:**

- Test data (PSAT National Merit Scholarship score, AP Exam score of 3 or above, or IB Exam score of 4 or above)
- College or dual credit courses with a 3.0 or higher
- Original research or project (counts as two advanced measures)

## ***Recommended Graduation Plan***

*For students entering 9<sup>th</sup> Grade 2007 and after*



- 4 credits of English Language Arts  
English 1, 2, 3, and 4
- 4 credits of Math  
Must consist of Algebra 1, Geometry, and Algebra 2  
plus one additional credit
- 4 credits of Science  
Must consist of Biology , two credits from IPC,  
Chemistry, or Physics, and one additional credit
- 4 credits of Social Studies  
World Geography (1 credit)  
World History (1 credit)  
US History since Reconstruction (1 credit)  
US Government (1/2 credit)  
Economics (1/2 credit)
- 2 credits of Languages Other than English  
Must consist of Level 1 and 2 of the same language
- 1 ½ credits of Physical Education (limit 2 credits)
- ½ credit of Health Education
- 1 credit of Technology Applications
- 1 credit of Fine Arts
- ½ credit of Speech
- 3 ½ elective credits

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26 Credits Total

## *Grades and Grade Point Average*

Students are awarded numeric grades for each subject. Grades of 70 and above are passing. The numeric grades earned in a class will appear on the transcript. Advanced Placement grades are weighted by 10 points. Dual enrollment courses and Pre-AP courses are weighted by 5 points. The weighted points for dual enrollment, NYOS Honors, and Advanced Placement Courses will not appear on the transcript but will be used to calculate a student's Grade Point Average (GPA) and class rank. See page 9 for more information on calculating GPA.

Grades from Austin Community College are as follows: A=100, B=90, C=80, D=70. Dual enrollment courses that are not required for graduation will not be used for calculating GPA to determine valedictorian and salutatorian. Dual enrollment courses that are "above and beyond" those required will appear on a student's transcript and will be calculated for college admission purposes.

<b>Numeric Grade</b>	<b>NYOS Courses</b>	<b>Dual Enrollment and NYOS Honors Courses</b>	<b>Advanced Placement Courses</b>
100	4.0	4.5 (105)	5.0 (110)
99	3.9	4.4 (104)	4.9 (109)
98	3.8	4.3 (103)	4.8 (108)
97	3.7	4.2 (102)	4.7 (107)
96	3.6	4.1 (101)	4.6 (106)
95	3.5	4.0 (100)	4.5 (105)
94	3.4	3.9 (99)	4.4 (104)
93	3.3	3.8 (98)	4.3 (103)
92	3.2	3.7 (97)	4.2 (102)
91	3.1	3.6 (96)	4.1 (101)
90	3.0	3.5 (95)	4.0 (100)
89	2.9	3.4 (94)	3.9 (99)
88	2.8	3.3 (93)	3.8 (98)
87	2.7	3.2 (92)	3.7 (97)
86	2.6	3.1 (91)	3.6 (96)
85	2.5	3.0 (90)	3.5 (95)
84	2.4	2.9 (89)	3.4 (94)
83	2.3	2.8 (88)	3.3 (93)
82	2.2	2.7 (87)	3.2 (92)
81	2.1	2.6 (86)	3.1 (91)
80	2.0	2.5 (85)	3.0 (90)
79	1.9	2.4 (84)	2.9 (89)
78	1.8	2.3 (83)	2.8 (88)
77	1.7	2.2 (82)	2.7 (87)
76	1.6	2.1 (81)	2.6 (86)
75	1.5	2.0 (80)	2.5 (85)
74	1.4	1.9 (79)	2.4 (84)
73	1.3	1.8 (78)	2.3 (83)
72	1.2	1.7 (77)	2.2 (82)
71	1.1	1.6 (76)	2.1 (81)
70	1.0	1.5 (75)	2.0 (80)

## *Pre-AP and Advanced Placement Courses*

### Overview

In this intellectual phase of their lives, students are moving from comprehension and application into analysis, synthesis, and evaluation.

Pre-AP and AP students' thinking morphs:

- \* from concrete to abstract thinking
- \* from emphasis on content to skill-based planning
- \* from surveying a lot of material to examining fewer works in greater depth.

### Essential Pre-AP and AP Study Skills

- \* the ability to focus and concentrate on a task
- \* the ability to become more comfortable with frustration in learning new concepts
- \* the ability to assimilate and accommodate new thought patterns
- \* the ability to manage concurrent assignments

AP Courses are meant to be the equivalent of a college course. Students should expect a heavier workload than in a traditional high school course, including a substantial amount of reading and preparation for each class period. Students will need to demonstrate a disciplined approach to study in order to keep up with the demands of the course.

AP Courses are designed by The College Board to prepare students to take the AP Exam in May. Colleges will determine and award college credit to students depending on their AP Exam score. Typically, students may gain college credit with AP Exam scores of 3, 4, or 5. Students are encouraged to check with their college of interest to determine acceptable scores to receive college credit. Colleges vary on their requirements for awarding college credit.

Students who took AP courses in high school are more successful in college as compared to students who did not take AP courses. The 1999 Federal Department of Education study found that "secondary school curriculum of high intensity and quality, such as that found in AP courses, has the strongest correlation to bachelor's degree completion."

## *Pre-AP and AP Commitment Form*

The following description of the Advanced Placement program is provided to help students, with the advice of parents, decide if Pre-AP or AP is an appropriate choice for the students at this time in their academic careers.

The purpose of the College Board Advanced Placement Program is to prepare students for college and/or for AP exams that give students the opportunity to obtain college credit. Pre-AP classes prepare students for AP courses, which are different from regular high school courses in that they are taught with college curricula and college-level materials. Other characteristics of Pre-AP and AP courses include content immersion, a fast pace, and performance assessed at the analysis and synthesis levels. Typically, successful Pre-AP and AP students are task-oriented, proficient readers, writers, and thinkers who are able to prioritize their time.

Students should be aware that, after the initial add/drop period (three weeks), they may not exit a Pre-AP or AP class.

If you and your parents believe that Pre-AP or AP is appropriate for you, and if you are willing to take on the commitment of time and work, please complete this contract and return it to your 2007-2008 Pre-AP or AP teacher.

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We have read and understand the above information and desire to have our son/daughter enrolled in a Pre-AP or AP course for the 2007-2008 school year.

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Student Signature

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Date

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Parent Signature

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Date

# *Internship*

## PROGRAM OVERVIEW

The purpose of an internship is to provide students with the opportunity to explore careers in-depth and to experience the benefits and guidance of mentors in the chosen career fields. Students may receive NYOS high school credit for participation in the program.

## PROGRAM DESIGN

- Juniors and seniors are eligible to participate in an internship.
- Eligible students must have maintained a 70 or above average in all courses, 95% attendance rate, satisfactory classroom behavior, and fewer than 3 tardies per quarter.
- Students receive 2.5 hours of classroom instruction per week for the entire year and 10 hours of internship per week during the 2nd semester.
- Typically, internships are unpaid.
- The sponsoring teacher will visit each student's career experience at least two times every nine weeks.
- Students will receive one elective credit at the successful completion of the year long class and 180 internship hours .
- Any student who is interested in an internship will need to complete and submit an application and resume to the Assistant Principal by April 4, 2008.
- Students will provide their own transportation to and from the internship site.

## DESCRIPTION OF ACTIVITIES

Interns participate in a variety of activities depending on the nature of the internship. They can assist in research, conduct individual projects, assist patients, research court cases, and observe corporate meetings, surgeries, or courtroom proceedings. The sponsoring teacher will create an individualized training plan with student expectations based on the internship and corresponding Texas Essential Knowledge and Skills.

A student may be exited from the program and lose the opportunity for course credit if the minimum requirements are not met.

## General Course Information

### REGISTERING FOR CLASSES

Students will complete grade-level course selection sheets. All course selection sheets will be turned in to the students' current English teacher no later than Tuesday, March 4, 2008.

Courses listed in this catalog are proposed for the 2008-2009 school year and dependent on student enrollment and staff availability.

**All course offerings are dependent upon student enrollment and staff availability.**

### SCHEDULE REQUIREMENTS

All core classes (English Language Arts, Math, Science, and Social Studies) meet every day and all non-core classes meet every other day either Monday, Wednesday, Friday or Tuesday and Thursday. All one credit courses meet for an entire year excluding an internship and all half credit courses meet for a semester. Students may register for four core classes and four non-core classes. Students may have only one study hall per day.

### COURSE PREREQUISITES

Students may not register for a class unless they have met all prerequisites and requirements. Students need to meet the prerequisite courses with successful completion of 70 or higher.

### SCHEDULE CHANGES

Students may add or drop courses with administrator, teacher, and parent approval during the first two weeks of the school if:

1. Required classes were omitted or another school error.
2. Class sections are being balanced. (administrative decision only).
3. Student has successfully completed the course.

## *English Language Arts and Speech*

### **English I**

Recommended Grade: 9

Credit: 1

*Prerequisite: 8<sup>th</sup> Grade English*

Students in English I use the writing process to strengthen their language skills and produce a variety of compositions using technology to revise, edit, and publish. This class reads a wide array of literary and informative texts. They also give oral presentations including the use of visuals.

### **Pre-AP English I**

Recommended Grade: 10

Credit: 1

*Prerequisite: 8<sup>th</sup> Grade English and teacher recommendation*

Pre-AP English involves reading, composition, and grammar activities that foster higher level thinking processes. Students in Pre-AP should assume more responsibility for reading and writing. Study skills used will be the ability to focus and concentrate on a task, to become more comfortable with frustration in learning new concepts, to assimilate and accommodate new thought patterns, and to manage concurrent assignments. The course will focus on four areas: close reading, composition, grammar, and critical thinking.

### **English II**

Recommended Grade: 10

Credit: 1

*Prerequisite: English I*

English II focuses on reflective and persuasive forms of writing. Students use the writing process to create effective arguments and analyze a variety of literature. They will critically read American and world authors. Students strengthen their language skills through complex syntax, advanced vocabulary, and accurate use of conventions of written language. They will also present and evaluation oral communications paying attention to the purpose and effect of the audience.

### **Pre-AP English II**

Recommended Grade: 10

Credit: 1

*Prerequisite: English I and teacher recommendation*

Pre-AP English involves reading, composition, and grammar activities that foster higher level thinking processes. Students in Pre-AP should assume more responsibility for reading and writing. Study skills used will be the ability to focus and concentrate on a task, to become more comfortable with frustration in learning new concepts, to assimilate and accommodate new thought patterns, and to manage concurrent assignments. The course will focus on four areas: close reading, composition, grammar, and critical thinking.

### **English III**

Recommended Grade: 11

Credit: 1

*Prerequisite: English II*

English III focuses on the development of American and multicultural literature in multiple genres. Works from pre-colonial times to the late 20<sup>th</sup> century provide for close reading, critical thought, and creative synthesis. Students continue to practice multiple forms of writing, including business forms. Students will also present and critique oral communications and multimedia products.

**All course offerings are dependent upon student enrollment and staff availability.**

## *English Language Arts and Speech*

### **English IV**

Recommended Grade: 12

Credit: 1

*Prerequisite: English III*

English IV focuses on the development of British and world literature in multiple genres. Works from the Old English period to the post-modern period provide for skill development in close reading, critical thought, and creative synthesis. Students continue to practice multiple forms of writing, with an emphasis on literary forms, research, and college application essays. Students will also present and critique oral communications and multimedia products.

### **AP Language and Composition**

Recommended Grade: 11 or 12

Credit: 1

*Prerequisite: English II and teacher recommendation*

AP English involves reading, composition, and grammar activities that foster higher level thinking processes. AP Language and Composition emphasizes the stylistic analysis of a variety of texts with particular attention to nonfiction forms, such as personal essays, biography, autobiography, science and nature writing, and political writing. Students write in a variety of compositional modes, with an emphasis on persuasive and analytical essays. Students in AP English connect literature with their own experience and with universal themes. Layered texts will be used that contain multiple themes; invite a close second or third reading, yielding new patterns of language at each reading; contain complex characters; and are rhetorically dense, containing rich veins of figurative language, varying syntactical patterns, appropriate and often surprising diction, shifts in tone, and irony and ambiguity. The course will focus on four areas: close reading, composition, grammar, and critical thinking. Practice in test-taking skills, especially timed writing, prepares students for the Advanced Placement Examination in Language and Composition.

### **Speech**

Recommended Grade: 9-12

Credit: ½

*Prerequisite: None*

Students learn how to effectively prepare, deliver, and evaluate speeches for a variety of purposes and audiences. They develop listening and speaking skills for interpersonal, group, and public situations to be successful in a variety of roles. This course is required for graduation.

### **Debate I**

Recommended Grades: 9-12

Credit: 1

*Prerequisite: None*

Controversial issues arise in aspects of personal, social public, and professional life in modern society. Debate and argumentation are widely used to make decisions and reduce conflict. Students who develop skills in argumentation and debate become interested in current issues, develop sound critical thinking, and sharpen communication skills. They acquire life-long skills for intelligently approaching controversial issues and clashes of opinion. This course does not satisfy the graduation requirement for Communication Applications.

**All course offerings are dependent upon student enrollment and staff availability.**

# Mathematics

## Algebra 1

Recommended Grade: 9

Credit: 1

*Prerequisite:* 8<sup>th</sup> grade math or equivalent math course

In Algebra 1, students will build on previous mathematical experiences and are provided with insights into mathematical abstraction and structure. The content strands will include algebraic concepts, function concepts (linear, non-linear and quadratic), relationship between equations and functions, tools for algebraic thinking, and underlying mathematical processes.

## Mathematical Models with Applications

Recommended Grade: 10

Credit: 1

*Prerequisite:* Algebra I

In Mathematical Models with Applications, students continue to build on the 8th Grade and 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, but not limited to, calculators with graphing capabilities, data collection devices, and computers) to link modeling techniques and purely mathematical concepts and to solve applied problems.

## Geometry

Recommended Grade: 10

Credit: 1

*Prerequisite:* Algebra 1

In geometry, students will develop a broad range of strategies to represent geometric ideas, including coordinates, networks, transformations. The geometry content strands covered include geometric structure, patterns, dimensionality and geometry of location, congruence and the geometry of size, and similarity and the geometry of shape. Generally, students will exit with a basic understanding of geometric thinking and spatial reasoning, the relationship between geometry, other mathematics, and other disciplines, tools for geometric thinking, and underlying mathematical processes (problem solving, reasoning, multiple representations, applications and modeling, and justification and proof).

# Mathematics

## Algebra 2

Recommended Grade: 11-12

Credit: 1

*Prerequisite: Geometry*

Algebra 2 extends ideas developed in Algebra 1 for linear equations to include the manipulation, analysis and solving of quadratic, polynomial, rational, exponential, and periodic functions. Standard forms and techniques for analyzing conic sections are developed. Methods for solving systems of linear equations are reviewed and extended, and solutions for systems combining linear and quadratic equations are introduced.

## Pre-Calculus

Recommended Grades: 11-12

Credit: 1

*Prerequisite: Algebra 2*

In Pre-Calculus, the primary focus is on the analysis of the graphs for a wide variety of functions including polynomial, rational, radical, exponential, logarithmic, and trigonometric functions. Skills in solving complex equations and simplifying complex expressions are further developed. The student also learns to simplify problems by recognizing and applying a qualitative understanding of the behavior of various classes of problems.

## *Social Studies*

### **World Geography**

Recommended Grade: 9

Credit: 1

*Prerequisite: 8<sup>th</sup> Grade US History*

World Geography focuses on the relationships among people, places and patterns of behavior on the Earth's surface. Students study about location, place, movement, and human-environment interaction in the major regions on Earth.

### **World History**

Recommended Grade: 10

Credit: 1

*Prerequisite: World Geography*

World History focuses on the development of civilizations from prehistory to the present. Attention is placed on major events, leaders, and institutions that have shaped the modern world.

### **Pre-AP World History**

Recommended Grades: 10

*Prerequisite: World Geography and teacher recommendation*

World History focuses on the development of civilizations from prehistory to the present. Attention is placed on major events, leaders, and institutions that have shaped the modern world. Students will develop evaluative thinking, reading, and writing skills through the mastery of a body of historical knowledge, interpretation of primary sources, and analysis of evidence and perspectives presented by historical scholars. Students are expected to complete reading at home and come to class prepared for discussion.

### **American History**

Recommended Grade: 11

Credit: 1

*Prerequisite: World Geography*

This course focuses on the history of American from 1877 to the present. Students analyze major themes and events and people of American history, as well as economics, political institutions and technological developments.

### **American Government**

Recommended Grade: 11-12

Credit: ½

*Prerequisite (or co-requisite): American History*

American Government traces the development of power and authority in the United States since its founding. Students understand the development of political parties, the responsibilities of citizens and governments and current political issues.

## *Social Studies*

### **Economics**

Recommended Grades: 11-12

Credit: ½

*Prerequisite: None*

Economics with emphasis on the free enterprise system and its benefits focuses on the basic principles concerning production, consumption, and distribution of goods and services in the United States and a comparison with those in other countries around the world. Students examine the rights and responsibilities of consumers and businesses. Students analyze the interaction of supply, demand, and price and study the role of financial institutions in a free enterprise system. Types of business ownership and market structures are discussed, as are basic concepts of consumer economics. The impact of a variety of factors including geography, the federal government, economic ideas from important philosophers and historic documents, societal values, and scientific discoveries and technological innovations on the national economy and economic policy is an integral part of the course. Students apply critical-thinking skills to create economic models and to evaluate economic-activity patterns.

### **Psychology**

Recommended Grades: 9-12

Credit: ½

*Prerequisite: None*

In *Psychology*, an elective course, students consider the development of the individual and the personality. The study of psychology is based on an historical framework and relies on effective collection and analysis of data. Students study topics such as theories of human development, personality, motivation, and learning.

### **Street Law**

Recommended Grades: 9-12

Credit: 1

*Prerequisite: None*

Street Law is a course in practical law that provides students with an opportunity to investigate the legal, judicial, law enforcement, and corrections systems of the United States and Texas. Study includes topics such as the court system, the criminal justice process, contracts, warranties, credit, becoming a smart consumer, family law, and individual rights and responsibilities.

## Science

### **Biology**

Recommended Grade: 9-10

Credit: 1

Students planning to graduate under the distinguished plan should take Biology in 9th grade. Students planning to graduate under the recommended plan should take Biology in 10th grade.

*Prerequisite: 8<sup>th</sup> Grade Science*

Biology I is the study of all living things. It is a lab-oriented course which emphasizes structure and function, growth and development, cells, tissues and organs, nucleic acids and genetics, biological evolution, taxonomy, and the relationships between living things and the environment.

### **Integrated Physics and Chemistry**

Recommended Grades: 9-11

Credit: 1

*Prerequisite: Algebra 1*

I P & C is a lab-oriented course that introduces basic concepts of physics and chemistry. The two disciplines are integrated in the topics of motion, waves, energy transformation, properties of matter, changes in matter, and solution chemistry. This course serves as a background for future courses in chemistry and physics.

### **Chemistry**

Recommended Grades: 10-11

Credit: 1

*Prerequisite: Algebra 1*

Chemistry focuses on an in-depth study of matter, atomic structure, bonding, periodic table of elements, acids and bases, energy transformations, oxidation-reduction, and nuclear chemistry.

### **Physics**

Recommended Grades: 11-12

Credit: 1

*Prerequisite: Algebra 1 and Geometry*

In physics, students will study motion, conservation of energy and momentum, force, electricity and magnetism, thermodynamics, fluids, waves, and modern physics.

### **AP Physics B**

Credit: 1

Recommended Grades: 11-12

*Prerequisite: Physics, Algebra II (or concurrent enrollment), and teacher interview involving parent and student.*

The goal of AP Physics is for students to receive a thorough analysis of five content areas of Physics: Newtonian Mechanics, Fluid Mechanics & Thermal Physics, Electricity and Magnetism, Waves and Optics, and Atomic Physics. This course will utilize guided based inquiry and student-centered learning to develop critical thinking skills. This course includes laboratory investigations to provide hands-on experience, representing a variety of topics covered in the course. This course will prepare students for the AP Physics Exam.

ADDITIONAL REQUIREMENTS: Friday and/or Saturday laboratory classes once every 3 to 4 weeks (as needed) and preparation for class during the summer.

**All course offerings are dependent upon student enrollment and staff availability.**

## Science

### AP Biology

Recommended Grades: 11-12

Credit: 1

*Prerequisite: Biology, chemistry or AP Chemistry, Algebra II (or concurrent enrollment, and teacher interview involving parent and student.*

This is a college level biology course that focuses on an in-depth study of the chemical and structural organization of cells, energy transformation, cell reproduction, genetics, and evolutionary processes. Students will receive a thorough analysis of three general areas of biology: Molecules and Cells, Heredity and Evolution, and Organisms and Populations. All of the areas will be covered using these eight major themes: I. Science as a Process, II. Evolution, III. Energy Transfer, IV. Continuity and Change, V. Relationship of Function to Structure, VI. Regulation, VII. Interdependence of Nature, VIII. Science, Technology, and Society. This course will utilize guided based inquiry and student-centered learning to develop critical thinking skills. This course includes laboratory investigations to provide hands-on experience, representing a variety of topics covered in the course. This course will prepare students for the AP Biology Exam.

ADDITIONAL REQUIREMENTS: Friday and/or Saturday laboratory classes once every 3 to 4 weeks (as needed) and preparation for class during the summer.

### AP Chemistry

Recommended Grades: 11-12

Credit: 1

*Prerequisite: Chemistry, Algebra II (or concurrent enrollment), and teacher interview involving parent and student.*

Students will receive a thorough analysis of five content areas of chemistry: Structure of Matter, States of Matter, Reactions, Descriptive Chemistry, Chemistry Laboratory. This course will utilize guided based inquiry and student-centered learning to develop critical thinking skills. This course includes laboratory investigations to provide hands-on experience, representing a variety of topics covered in the course. This course will prepare students for the AP Chemistry Exam.

ADDITIONAL REQUIREMENTS: Friday and/or Saturday laboratory classes once every 3 to 4 weeks (as needed) and preparation for class during the summer.

## *Languages Other Than English*

### **American Sign Language 1**

Recommended Grades: 9-12

Credit: 1

*Prerequisite: None*

This is an introductory course of the study of receptive and expressive aspects of signs, non-manual communication, and grammatical features of ASL in everyday situations. Students also gain an understanding of the deaf community and inter-relationship of languages.

### **American Sign Language 2**

Recommended Grades: 10-12

Credit: 1

*Prerequisite: ASL 1\**

This course builds on the information and skills learned in ASL 1. Students develop their signing skills in various everyday situations and continue to explore the cultural perspective of the deaf community.

### **American Sign Language 3**

Recommended Grades: 11-12

Credit: 1

*Prerequisite: ASL 2\**

This course focuses on structures and vocabulary necessary to interact socially, communicate about ideas, feelings, and attitudes, and request information. Students study in-depth of the deaf community through video segments, art, and literature.

### **American Sign Language 4**

Recommended Grades: 12

Credit: 1

*Prerequisite: ASL 3\**

This course focuses on advanced American Sign Language comprehension and production skills. It emphasizes advanced linguistic aspects of ASL, presents ASL literary forms, and encourages contact with the Deaf Community.

\*Each level of ASL needs to be taken consecutively.

## *Languages Other Than English*

### **Spanish 1**

Recommended Grades: 9-10

Credit: 1

*Prerequisite: None*

Spanish 1 introduces students to basic listening, speaking, reading, and writing skills in Spanish. Students also learn background grammatical concepts. In addition, they learn about the culture of various Spanish speaking countries. Students understand and speak short utterances in conversation.

### **Spanish 2**

Recommended Grades: 10-11

Credit: 1

*Prerequisite: Spanish 1\**

Spanish 2 continues to build student's skills in the four basic areas of communication, listening, speaking, and writing. In level 2 they further develop their understanding of grammatical concepts and increase their cultural knowledge. Students learn to produce phrases and sentences when speaking and writing.

### **Spanish 3**

Recommended Grades: 11-12

Credit: 1

*Prerequisite: Spanish 2\**

Spanish 3 will develop a higher level of thinking level and competence in the four areas of communication: listening, speaking, reading, and writing. Students engage in teacher led discussions and study advanced grammatical concepts. They study Spanish culture in depth. Students understand main ideas and some detail when listening and reading and learn to cope successfully in simple conversation and survival situations.

### **Spanish 4**

Recommended Grades: 12

Credit: 1

*Prerequisite: Spanish 3\**

Spanish 4 will develop a higher level of thinking and competence in the four areas of communication: listening, speaking, reading, and writing. Students engage in teacher led discussions, study advanced grammatical concepts. They study Spanish culture in depth.

\*Each level of Spanish needs to be taken consecutively.

## *Physical and Health Education*

### **Physical Education**

Recommended Grades: 9-12

Credit: ½

*Prerequisite: None*

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 throughout the lifespan. The basic purpose of this course is to motivate students to strive for lifetime personal fitness with an emphasis on the health-related components of physical fitness. The 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.

### **Health Education**

Recommended Grades: 9-12

Credit: ½

*Prerequisite: None*

In health education, students acquire the health information and skills necessary to become healthy adults and learn about behaviors in which they should and should not participate. 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. At NYOS, this course is may be taught as a self-paced computer program.

## *Fine Arts*

### **Theatre Arts I**

Recommended Grades 9-12

Credit: 1

*Required Prerequisite: None*

Theatre Arts I is an overview of theatre arts, basic acting techniques, and introduction to stagecraft. It requires memorization, team work, and participation.

### **Theatre Arts II**

Recommended Grades 10-12

Credit: 1

*Required Prerequisite: Theatre Arts I*

In Theatre Arts II, students enhance their acting and stagecraft techniques. It requires memorization, team work, and participation.

### **Art I**

Grade Level: 9-12

Credit: 1

*Prerequisite: None*

This course will provide a basic foundation in the areas of perception, production, history and evaluation. It will explore various techniques within drawing, design, painting, printmaking and sculpture with an emphasis on vocabulary.

### **Art II—Sculpture**

Grade Level: 10-12

Credit: 1

*Prerequisite: Art I*

Students taking this course will build on its prerequisite, continuing to examine the elements and principles of sculpture.

### **Art II—Painting**

Grade Level: 10-12

Credit: 1

*Prerequisite: Art I*

Students taking this course will build on its prerequisite, continuing to examine the elements and principles of painting.

### **Art II—Drawing**

Grade Level: 10-12

Credit: 1

*Prerequisite: Art I*

Students taking this course will build on its prerequisite, continuing to examine the elements and principles of drawing.

## *Technology Applications*

### **Business Computer Information Systems (BCIS)**

Recommended Grades: 9-12

Credit: 1

*Prerequisite: None*

This course is a comprehensive overview of business computers applications. Students develop a foundation of skills for success in the workplace in the following areas in order to become productive consumers, employees, and entrepreneurs: Develop skills for success in the workplace including communication, typing, research, decision-making, organizational and other skills needed to succeed in the technology/business world Describe concepts of computer networks, computer operating systems, and emerging technology. Utilize appropriate technology to address business needs by producing documents in the following Information Technology areas: Word Processing, Spreadsheet, Database, Email, Desktop Publishing, and Multimedia Presentation. This course satisfies the Technology Applications graduation requirement.

### **Video Technology I**

Recommended Grades 9-12

Credit: 1

*Recommended Prerequisite: None*

Through the study of video technology-related terms, concepts, and video strategies, students will select the video technology appropriate for the task, synthesize knowledge, create a solution, evaluate the results and produce a video presentation project. This course satisfies the Technology Applications graduation requirement.

### **Video Technology II (or Media Technology)**

Recommended Grades 10-12

Credit: 1

*Prerequisite: Video Tech I*

Media Technology includes the knowledge and application of the principles of media and communication systems. Rapid advances in technology have created new career opportunities and demands in trades and industries. Trade and industrial education provides the knowledge, skills, and technologies required for employment in communication and media systems. Students will develop knowledge of the concepts and skills related to this system in order to apply them to personal/career development. Media Tech expands on the knowledge learned in Video Tech with a career emphasis.

### **Digital Graphics and Animation**

Recommended Grades 9-12

Credit: 1

*Prerequisite: None*

Digital Graphics and Animation is an introductory course in design, typography, and imaging techniques. The course includes topics such as digital composition, color, imaging, editing, and animation. The student will use the computer's set of tools to produce and edit digital designs as well as to incorporate design principles when capturing digital images with tools like scanners and cameras. Animation, both 2-D and 3-D will be introduced in this course. This course satisfies the Technology Applications graduation requirement.

**All course offerings are dependent upon student enrollment and staff availability.**

## *Technology Applications*

**Web Mastering**

Recommended Grades 9-12

Credit: 1

*Prerequisite: None*

This course is an introduction to the terms and concepts of WWW pages, LANs, and WANs. Students will apply the design principles needed to create, publish, and evaluate WWW pages. This course satisfies the Technology Applications graduation requirement.

**Computer Science I**

Recommended Grades 9-12

Credit: 1

*Prerequisite: Algebra I*

Computer Science involves the understanding of programming language concepts and how they are applied to problem solving. This course satisfies the Technology Applications graduation requirement.

## *Leadership and College/Career Preparation*

### **Navigators**

Credit: 1

Recommended Grades: 9-12

*Prerequisite: Application Process and Staff Recommendation Only*

Navigators are school leaders who strive to improve the NYOS community. They recruit students by leading campus tours and mentor students new to NYOS.

### **Teacher/Office Aide**

No Credit

Recommended Grades: 11-12

*Prerequisite: Teacher and Administrator Approval*

Students will assist teachers or staff with a variety of task such as copying, filing, organizing, delivering, and tutoring.

### **Internship**

Credit: 1

Recommended Grades: 11-12

*Prerequisite: Application, Resume, and Administrator Approval*

Students will attend class 2.5 hours per week at NYOS for the entire year and 10 hours per week at their internship during the spring semester. Interns participate in a variety of activities depending on the nature of the internship. They can assist in research, conduct individual projects, assist patients, research court cases, and observe corporate meetings, surgeries, or courtroom proceedings.

### **Introduction to Criminal Justice**

Recommended Grades: 9-12

Credit: ½

*Prerequisite: None*

This course would include basic education on the criminal justice system to include the application of laws, rules, regulations, and other influences that govern the operation and components of our national and state systems.

## *Austin Community College Dual Enrollment*

### NYOS ATTENDANCE

Students must be at NYOS for at least four hours excluding passing period times. Students will provide their own transportation to an ACC campus. Parents must provide written permission for a student to leave NYOS campus to attend ACC classes. Students will also need to provide verification of their enrollment at ACC to a NYOS administrator. Students must sign-in and sign-out at NYOS when leaving and returning from ACC.

The following information was obtained from Austin Community College Early College Start program. For more information visit <http://www.austincc.edu/ecs/>

### DUAL ENROLLMENT REQUIREMENTS

Students can enroll at ACC once they meet the following requirements:

- Successful completion of their sophomore year (12 high school credits or more)
- Receive permission from their parent/guardian, high school guidance counselor, and principal
- Successfully passed the ACC admission assessment requirements

Students may take up to two ACC courses each semester. Dual enrollment courses taken through ACC can count towards high school graduation requirements and college credit. Courses must be approved by NYOS prior to meeting with an ACC advisor or counselor. Only courses approved by NYOS will be accepted for dual enrollment and high school credit. Students must be passes there courses at NYOS to enroll at ACC.

### COSTS

Student who live in an ACC tax paying district (Austin, Leander, Manor, and Del Valle school districts and portions of Pflugerville, Round Rock, and Eanes school districts within the Austin City Limits) do not pay tuition or fees for up to two courses per semester. Students who live outside an ACC tax paying district will be charged \$40 per course.

## *Austin Community College Dual Enrollment*

### STEPS TO THE EARLY COLLEGE START PROGRAM

1. Meet with high school guidance counselor
2. Complete ACC web-based admission application [https://www3.austincc.edu/IT/student\\_app/www/pre\\_application\\_info.php](https://www3.austincc.edu/IT/student_app/www/pre_application_info.php)
3. Determine required COMPASS assessments and review assessment schedule
4. Obtain a COMPASS fee waiver from high school counselor
5. Request high school transcript
6. Complete required assessments or obtain exemption verification
7. Complete Pre-Advising Checklist at <http://www.austincc.edu/acc101>
8. Complete ACC dual enrollment form
9. Obtain course prerequisite proof
10. Meet with ACC Advisor

### REQUIRED ACC ASSESSMENTS

Early College Start students are required to show proficiency in the areas of reading, writing, and mathematics through an assessment. Students are exempt from the ACC COMPASS if they meet the minimum scores on the ACT, SAT, or TAKS. Minimum scores are:

- ACT—23 composite with 19 in English and 19 in Math
- SAT—1070 composite with 500 in Critical Reading and 500 in Math
- TAKS—2200 in Math and 2200 in ELA with at least a 3 in writing

### APPROVED DUAL ENROLLMENT COURSES

The following pages are approved dual credit courses. Students will not receive high school credit for any course not on this list unless they have obtained approval from the high school principal.

### ACC PREREQUISITES

Students need to refer to the ACC course descriptions for prerequisites and other requirements. Students may not register for classes unless they met all prerequisites and requirements. Successful completion of a course means a grade of C or higher.

NYOS Course Title	High School Credit	ACC Course Number(s)	ACC Course Title(s)	ACC Course Hours
<b>English Language Arts</b>				
English III	1.0	ENGL 1301, ENGL 1302, and ENGL 2327	English Composition I, English Composition II, and American Literature I	3 3 3
English IV	1.0	ENGL 1301, ENGL 1302, and ENGL 2327	English Composition I, English Composition II, and British Literature I	3 3 3
Creative Writing	0.5	ENGL 2307	Creative Writing	3
<b>Mathematics</b>				
Calculus AB	1.0	MATH 2413	Calculus I	3
Calculus BC	1.0	MATH 2414	Calculus I Calculus II	3 3
<b>Science</b>				
Environmental Science	1.0	BIOL 2206 & BIOL 2106	Environmental Biology + Lab	4
Geology, Meteorology, and Oceanography	1.0	GEOL 1403 and GEOL 1445	Physical Geology (lecture/lab) and Intro to Oceanography (lecture/lab)	4 4
Physics	1.0	PHYS 1401 and PHYS 1402	General College Physics I (lecture/lab) and General College Physics II (lecture/lab)	4 4
Astronomy	1.0	ASTR 1403	Stellar Astronomy with Lab	4
Anatomy & Physiology of Human Systems	1.0	BIOL 2304 & 2101 and BIOL 2305 & 2102	Human Anatomy (lecture/lab) and Human Physiology (lecture/lab)	4 4

Social Studies				
U.S. History	1.0	HIST 1301 & HIST 1302	US History I and US History II	3 3
Economics	0.5	ECON 2302	Principles of Micro-economics	3
Government	0.5	GOVT 2305	US Government	3
World Geography	1.0	GEOG 1301 & GEOG 1302	Intro to Physical Geography and Intro to Cultural Geography	3 3
Psychology	0.5	PSYC 2301	Intro to Psychology	3
Sociology	0.5	SOCI 1301	Intro to Sociology	3
Languages Other Than English				
French I	1.0	FREN 1511	Level 1 French	5
French II	1.0	FREN 1512	Level 2 French	5
German I	1.0	GERM 1511	Level 1 German	5
German II	1.0	GERM 1512	Level 2 German	5
Japanese I	1.0	JAPN 1511	Level 1 Japanese	5
Japanese II	1.0	JAPN 1512	Level 2 Japanese	5
Spanish I	1.0	SPAN 1511	Level 1 Spanish	5
Spanish II	1.0	SPAN 1512	Level 2 Spanish	5
Russian I	1.0	RUSS 1511	Level 1 Russian	5
Russian II	1.0	RUSS 1512	Level 2 Russian	5
ASL 1	1.0	SLGN 1404	ASL Beginning 1	5
ASL 2	1.0	SLGN 1405	ASL Beginning 2	5
Technology Applications				
BCIS	1.0	COSC 1301	Personal Computing	3
Computer Science I	1.0	COSC 1315	Fundamentals of Programming	3

Communication Applications				
Communication Appli- cations	0.5	SPCH 1311	Introduction to Speech	3
Fine Arts				
Art 2 -Drawing	1.0	ARTS 1316	Drawing I	3
Art 3 -Drawing	1.0	ARTS 1317	Drawing II	3
Art 2 -Painting	1.0	ARTS 2316	Painting I	3
Art 3- Painting	1.0	ARTS 2317	Painting II	3
Art 2- Ceramics	1.0	ARTS 2326	Ceramics I	3
Art 3 - Ceramics	1.0	ARTS 2347	Ceramics II	3
Art 2 - Sculpture	1.0	ARTS 2326	Sculpture I	3
Art 3 - Sculpture	1.0	ARTS 2327	Sculpture II	3
Art 2 -Photography	1.0	ARTS 2356	Photography I	3
Theatre Arts 1	1.0	DRAM 1351	Acting I	3
Theatre Arts II	1.0	DRAM 1352	Acting II	3
Career and Technology				
Accounting	1.0	ACCT 2301	Accounting Principles	3
Business Law	1.0	BUSI 2301	Business Law	3
Engineering Graphics	1.0	DFTG 1405	Technical Drafting	3
Street Law	0.5	LGLA 1311	Intro to Law	3
Health/PE				
Health	0.5	KINE 1304	Personal Health	3
Health	0.5	KINE 1305	Community Health	3
PE	0.5	KINE 110X	Kinesiology	1

# *Notes*



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## NYOS Charter School

12301 N. Lamar Blvd.  
Austin, Texas 78753

Phone: 512-583-6967  
Fax: 512-583-6973  
E-mail: [csilber@nyos.org](mailto:csilber@nyos.org)