



NPA



Northland Preparatory Academy

Middle and High School Course Catalog 2006-2007

Northland Preparatory Academy is a public charter school. The charter for our school is specifically designed to serve students in a highly academic setting. Several of our courses are Honors and AP courses, benefiting students who strive for the challenge of a quality, college preparatory education.

Academics

As a charter school, the NPA faculty, staff, and governing board must adhere closely to the stated goals of the charter, which calls for a highly academic college prep school. The school welcomes all applicants regardless of race, gender, ethnicity, or economic status. No admission test is required; however, students are expected to take at least five core courses a year, including English, a second language, math, science, and history or social studies. Fine arts are an essential part of a well-rounded college prep program and students are encouraged to take art and/or music every year.

Middle School

The middle school curriculum calls for maintaining exciting and dynamic classes that challenge students to perform at high levels of academic standards.

The curriculum, which exceeds the Arizona Academic Standards as outlined by the Arizona Student Achievement Program, is designed to allow students to develop at their own rate both academically and socially. Classes emphasize active, project-based learning, helping students understand connections between disciplines. The curriculum is designed to be challenging for all students

Typically, a 7th grade student will take the following seven-course schedule:

- English: Basic English Composition 7
- Foreign Language: Latin I
- Math: by placement – Math Foundations, Pre-Algebra, or Algebra I
- Science: Science 7
- Social Studies: World Geography 7
- Sixth course: Study Skills 7/Study Hall
- Seventh course: chosen from available general elective courses

The schedule for the typical 8th grader will have the following seven courses:

- English: English Composition 8
- Math: by placement – Pre-Algebra, Algebra I or I-A, or Geometry
- Science: Physical Science 8
- Social Studies: US History 8
- Fifth course: Physical Education/Health
- Sixth course: Study Hall or one of the available general elective courses
- Seventh course: chosen from available general elective courses

High School

The high school program is designed to provide outstanding preparation for college. Students can choose from a range of electives; however, all students take five core courses: English, a foreign language, math, social studies/history, and science. Students may take electives as well. All high school and middle school classes are yearlong courses, and are worth ½ credit each semester.

Questions?

If you have any questions about the curriculum offered at NPA, or if you would like more information on our Honors classes, please contact us at 928-214-8776 or visit our web site at www.northlandprep.org

High School Graduation Requirements for the Class of 2007

Minimum number of credits to be earned *within* Grades 9-12:

4 credits of English	3 credits of other core courses**
3 credits of Foreign Language	1 credit of Fine Arts
3 credits of Math*	3 credits of other electives
3 credits of Laboratory Science	
4 credits of Social Studies	24 credits total

*students are required to take a math course each year, even after having earned 3 credits

**usually an additional credit in each of Foreign Language, Math, or Science, but may be satisfied with any three courses designated as core courses

High School Graduation Requirements for the Class of 2008

Minimum number of credits to be earned *within* Grades 9-12:

4 credits of English	3 credits of other core courses**
3 credits of Foreign Language	1 credit of Fine Arts
3 credits of Math*	1 credit of Physical Education/Health
3 credits of Laboratory Science	2 credits of other electives
4 credits of Social Studies	24 credits total

*students are required to take a math course each year, even after having earned 3 credits

**usually an additional credit in each of Foreign Language, Math, or Science, but may be satisfied with any three courses designated as core courses

High School Graduation Requirements for the Class of 2009 and thereafter

Minimum number of credits to be earned within Grades 9-12:

4 credits of English	3 credits of other core courses**
3 credits of Foreign Language	1 credit of Fine Arts
3 credits of Math*	1 credit of Physical Education/Health
3 credits of Laboratory Science	2 credits of other electives
4 credits of Social Studies	
1 credit of Junior/Senior Seminar	25 credits total

*students are required to take a math course each year

**usually an additional credit in each of Foreign Language, Math, or Science, but may be satisfied with any three courses designated as core courses

High School Program 2006-2007

Typical 9th Grade Schedule

- English: American Literature and Composition, Honors American Literature and Composition, or High School Composition
- Foreign Language: French I or Spanish I
- Math: by placement – see Math section of catalog
- Science: HS Life Science or HS Biology or most appropriate science course based on math placement and/or future course plans within science
- Social Studies: World History to 1900 or Honors World History to 1900
- Sixth course: usually a Fine Arts course or Physical Education/Health
- Seventh course: chosen from available general elective courses

Typical 10th Grade Schedule

- English: World Literature and Composition, Honors World Literature and Composition, or High School Composition
- Foreign Language: French II or Spanish II
- Math: by placement – see Math section of catalog
- Science: Chemistry or Chemistry in the Community or the most appropriate science course based on math placement and/or future course plans within science
- Social Studies: 1st semester: World History 1900 to Present or Honors World History 1900 to Present; 2nd semester: US History to 1820 or AP US History to 1820
- Sixth course: usually a Fine Arts course or Physical Education/Health
- Seventh course: chosen from available general elective courses

Typical 11th Grade Schedule

- English: English Composition 11,
AP English Language and Composition, or
Advanced Composition
- Foreign Language: French III or Spanish III
- Math: by placement – see Math section of catalog
- Science: Most appropriate science course based on math
placement and/or future course plans within science
- Social Studies: US History 1820 to Present or
AP US History 1820 to Present
- elective course: chosen from available general elective courses
- elective course: chosen from available general elective courses

Typical 12th Grade Schedule

- English: English Composition 12,
AP English Literature and Composition, or
Advanced Composition
- Foreign Language: French IV or Spanish IV
- Math: by placement – see Math section of catalog
- Science: Most appropriate science course based on math
placement and/or future college plans within science
- Social Studies: American Government & Politics (1st semester)/
Economics (2nd semester)
- elective course: chosen from available general elective courses
- elective course: chosen from available general elective courses

Middle and High School Courses

listed by department



English

Middle School Courses

EN001

Basic English Composition 7

The emphasis in Basic English Composition is academic writing, the types of writing frequently required in middle, high school and college classes. The most important goal of this class is to get students writing, get them familiar with communicating through their writing, get them to better understand themselves as writers. Toward this end, students explore many of the available strategies for approaching any given writing assignment and, consequently, discover or develop their own writing process, that is, their own combination of writing strategies (ways of collecting information, developing ideas, organizing material, revising ideas, etc.). Ultimately, the goal is to teach students to be self-conscious writers, writers with a purpose, writers who think about what they are doing and why they are doing it at every stage of their writing process and every time they sit down to write.

Course fee: \$15

EN011

English Composition 8

In this course, students will develop their reading, writing, and critical thinking abilities. They will read texts closely and use examples and quotes from them as support for the topics of their compositions. Texts used in this course include autobiographies, novels, short stories, plays and poetry, as well as periodicals. Vocabulary and grammar will be studied in the context of reading and writing assignments. There will also be a research component to this course.

Course fee: \$25 (one-time for all English students in 2006-07)

EN021

Honors English Composition 8

In this course, students will develop their reading, writing, and critical thinking abilities. They will read texts closely and use examples and quotes from them as support for the topics of their compositions. Texts used in this course include autobiographies, novels, short stories, plays and poetry as well as periodicals. Vocabulary and grammar will be studied in the context of reading and writing assignments. There will also be a research component to this course.

Prerequisite: By teacher recommendation

Course fee: \$25 (one-time for all English students in 2006-07)

EN031

Basic English Composition II

This course is intended as a follow-up to Basic English Composition 7. This course does not replace the requirement of EN011 or EN021; it is taken as a *second* 8th grade English course which will continue EN001's emphasis on academic writing, providing additional writing practice for those students who want or need it. Ultimately, the goal is to teach students to be self-conscious writers, writers with a purpose, writers who think about what they are doing and why they are doing it at every stage of their writing process and every time they sit down to write. Open to 8th graders only.

Course fee: \$25 one-time for all English students in 2006-07

High School Courses

Graduation Requirements: four credits required; fifth credit optional

EN101

American Literature and Composition

This course introduces students to a variety of literature from the United States, spanning from the early years of the nation to more contemporary times. Students will develop their understanding of literary elements by closely reading, discussing, and writing about poetry, drama, short stories, essays and novels. Because strong writing skills are closely connected with strong reading skills, the literature in this course will be used to facilitate both writing opportunities and the development of critical, analytical thinking about various literary elements. The basic elements of composition – thesis statement, topic sentences, concrete detail, commentary/analysis – are emphasized, and writing fundamentals such as proper grammar, spelling and syntax are reviewed. In addition to frequent in-class writing exercises and homework assignments designed to give students practical writing opportunities, students will write approximately 8 out of class essays during the year.

Course fee: \$25 one-time fee for all English students in 2006-07

EN111**Honors American Literature and Composition**

This course is more accelerated than the regular course, providing a study of literature that is greater in depth and scope. Students are expected to use and develop sophisticated critical and analytical skills as they examine a variety of literature, including works not taught in the regular course. More writing and outside reading are also expected of the students in this course.

Prerequisite: By teacher recommendation

Course fee: \$25 one-time fee for all English students in 2006-07

EN201**World Literature and Composition**

This course studies five genres of world literature: essay, short story, novel, drama, and poetry. Students continue to develop their analytical abilities, examining and discussing the ways in which literary elements such as plot, character, setting, theme and symbolism work to create meaning and influence interpretation. This course also continues to emphasize composition, reinforcing the writing skills and providing frequent, practical writing opportunities. In addition to regular in-class and homework assignments, students write approximately 8 out of class essays during the year.

Course fee: \$25 one-time fee for all English students in 2006-07

EN211**Honors World Literature and Composition**

This course emphasizes a greater in-depth study of the same genres studied in the regular world literature class, with more writing and outside reading expected of the student. Frequent timed writings, formal essays and a research-based term paper are the required writings in this class.

Prerequisite: By teacher recommendation

Course fee: \$15 plus \$25 one-time fee for all English students in 2006-07

EN221**High School Composition**

The emphasis in this composition course is academic writing, the types of writing frequently required in high school and college classes. The most important goal of this class is to get students writing, get them familiar with communicating through their writing, get them to better understand themselves as writers. Toward this end, students explore many of the available strategies for approaching any given writing assignment and, consequently, discover or develop their own writing process, that is, their own combination of writing strategies (ways of collecting information, developing ideas, organizing material, revising ideas, etc.). Ultimately, the goal is to teach students to be self-conscious writers, writers with a purpose, writers who think about what they are doing and why they are doing it at every stage of their writing process and every time they sit down to write.

Course fee: \$25 one-time fee for all English students in 2006-07

EN301**English Composition 11**

This course focuses on critical thinking and heightened writing skills through reading, discussion and written analysis of book-length texts and shorter pieces of both contemporary and classic works. Additional written assignments include essays, memoir, narrative and practical application writing such as resumes, letters to the editor, and employment cover letters.

Course fee: \$25 one-time fee for all English students in 2006-07

EN311**Advanced Placement (AP) English Language and Composition**

This course, typically for 11th grade students, emphasizes the various forms of composition including expository, narrative and argumentative. The students will learn critical reading skills to analyze the devices and writing styles used by writers, and they will practice using those skills in their own writing as they write essays such as those required on the AP exam. Students are not required to take the AP exam, but they are encouraged to do so.

Prerequisites: Teacher recommendation and placement exam.

AP Exam Fee (from 2006; will be higher in 2007): \$82

Course fees: \$18 plus \$25 one-time fee for all English students in 2006-07

EN401**English Composition 12**

This course focuses on critical thinking and heightened writing skills through reading, discussion and written analysis of book-length texts and shorter pieces of both contemporary and classic works. Additional written assignments include essays, memoir, narrative and practical application writing such as resumes, letters to the editor, and employment cover letters.

Course fee: \$25 one-time fee for all English students in 2006-07

EN411**Advanced Placement (AP) English Literature and Composition**

This course, typically for 12th grade students, emphasizes the analytical reading of literature to generate a written response to what is read. The literature will be from various periods and cultures and genres, and students will study literary elements, figurative language, literary criticism and theory, and literary eras. They will gain experience in writing essays such as those required on the AP exam. Students are not required to take the AP exam, but they are encouraged to do so.

Prerequisites: AP Language or teacher recommendation and placement exam.

AP Exam Fee (from 2006; will be higher in 2007): \$82

Course fees: \$13 plus \$25 one-time fee for all English students in 2006-07

EN421**Advanced Composition**

Students in this course will finesse and deepen writing skills through short and long assignments, essays, reviews, research, and editorials. Students will practice and

explore the writing process and develop awareness and habits to move writing skills to the higher level necessary for success in college courses.

Prerequisite: Open to students in Grades 11 and 12 or by permission of instructor

Course fee: \$25 one-time fee for all English students in 2006-07



Fine Arts

Graduation Requirements: one credit within Grades 9-12

All courses listed satisfy the requirement. All three public Arizona universities require one credit of fine arts. Although students are only required to earn one credit of fine arts, they are encouraged to take an art or music course every year.

Art

NPA's art program covers the Arizona Essential Skills for art grades 7-12. It includes techniques for using various art materials, basic art vocabulary, art concepts and art history. The emphasis is on student participation.

FA101 (FA011 in Middle School)

Art I – Introduction to Art

This full year course will introduce students to a media based program, laying the basic foundation for both art appreciation and art production skills. Studio production will include: sketching/drawing (using various graphite, charcoal, colored pencils, oil and chalk pastels), painting (watercolor and acrylics) pen and ink, printmaking, graphic design, and 3-D design (sculpture and ceramics) Each unit of study will include lessons which incorporate the elements and principles of art and design, technique demonstrations, art history, and art criticism. Personal interest and exploration are encouraged! Students are required to keep a sketchbook and a folder of class handouts to prepare for tests.

Students must maintain a "B" average, both fall and spring semester, in order to continue to the advanced level course.

Course fee: \$30

FA102 (FA012 in Middle School)

Art II – Advanced Art

This full year advanced course will further develop foundation skills learned in the Introduction to Art course by continuing a sequential study of drawing and painting. Artwork and studio projects will include: realistic, abstract, and non-objective styles while incorporating multi media, three dimensional approaches, and compositional development and/or balance placement/layout into their work. Students will continue to cover techniques for various media, and continue to explore art concepts and history through studio projects. Art history and appreciation will be linked to each unit. Students are required to keep a sketchbook, portfolio, and folder of class handouts. Project assignments will be given in class. There is a greater emphasis placed on personal interest projects at this level. If students are unable to finish the assignments in class, the work needs to be completed at home.

Prerequisite: Intro to Art and teacher permission.

Course fee: \$30

FA103 Art III – Advanced Art
FA104 Art IV – Advanced Art
FA105 Art V – Advanced Art

These full year advanced courses will further develop foundation skills learned in Art I & Art II by continuing a sequential study of 2D and 3D media. Increased study in 3D is a possibility. Artwork and studio projects will focus on compositional development. Art concepts, art history and appreciation will be linked to each unit. Students are required to keep a sketchbook, portfolio, and folder of class handouts. Project assignments will be given in class. There is a greater emphasis placed on personal expression and interest projects at this level. If students are unable to finish the assignments in class, the work needs to be completed at home. Projects completed in these courses are eligible for inclusion in an AP Portfolio submission.

Prerequisite: Intro to Art and teacher permission.

Course fee: \$30

Students must maintain an “A” average, both fall and spring semester, in order to be considered for placement in Advanced Placement Art. AP Placement is determined by an interview process and portfolio review.

FA106
Advanced Placement (AP) Studio Art

This is an accelerated course designed for the highly motivated, talented art student who wishes to pursue college-level studies while still in high school, and for the student who is seriously interested in the practical experience of art. This AP course will give students more opportunity for individualized instruction geared towards their own interests and expertise by developing an area of focus /concentration. Students are expected to work at least 6 hours per week outside of class on their projects in order to complete 24 pieces of artwork by the end of the year. AP Studio Art is not based on a written exam; instead, students submit a portfolio to the College Board for evaluation at the end of the year with 24 slides and five pieces of artwork from the following three sections: Breadth, Concentration, and Quality. Projects will be assigned in class. Two AP Studio Art approaches are offered within our AP Studio Art program: Two-Dimensional Design and Drawing. Projects from previous art courses may be included in the AP portfolio submission. Portfolios are submitted to the AP College Board for scoring and will be returned via mail over the summer. Portfolio submission only applies to Juniors and Seniors. Students who receive a score of a 5, 4, or 3 on their portfolios can potentially receive up to twelve credit hours of art course work depending on the university or college the student attends. AP art students must be capable of meeting deadlines and maintain at least a “B” average at the end of fall semester to continue

Prerequisites: Art 1, Art 2 and/or teacher recommendation with portfolio review and interview questionnaire. See Art III-V description above for further detail. Students are encouraged to progress through the course sequence at NPA and reserve their AP year for their junior or senior year.

Course fees include: Portfolio submission slide film and developing (\$40 in 2006); Art supplies (\$100 in 2006-07).

AP Exam Fee (from 2006; will be higher in 2007): \$82

Music

FA211 (FA021 in Middle School)

Intermediate Strings

A course for students who already play an orchestral string instrument (bowed strings or harp) and want to develop orchestral skills. The format includes time and instruction in sectional and time for ensemble as a whole to rehearse. Members of this group will be offered the opportunity to compete in regional/state competitions. This group will perform regularly throughout the year. Students are responsible for providing their instrument. May be repeated for credit.

Placement by audition. Students who do not play a stringed instrument but want to learn may be admitted into the class by permission of the instructor. Guitarists, classical and otherwise, should enroll in Contemporary Music classes.

Course fee: \$25

FA221 (FA022 in Middle School)

Advanced Strings

A course for students who already play an orchestral string instrument (bowed strings or harp) and want to develop orchestral skills. The format includes time and instruction in sectional and time for ensemble as a whole to rehearse. Members of this group will be offered the opportunity to compete in regional/state competitions. This group will perform regularly throughout the year. Students are responsible for providing their instrument. May be repeated for credit.

Placement by audition. Students who do not play a stringed instrument but want to learn may be admitted into the class by permission of the instructor. Guitarists, classical and otherwise, should enroll in Contemporary Music classes.

Course fee: \$25

FA231 (FA023 in Middle School)

Symphonic Strings (Orchestra)

This class is intended for students who play a stringed orchestra instrument and want to polish their orchestra skills. Students will explore a variety of musical styles. Class time includes rehearsal as a large group, instruction in advancing techniques, and sectional work. Regular practice is required. This group will perform regularly throughout the year. Students will be offered the opportunity to compete in regional/state competitions. Students must provide their own instruments. Bring instruments the first day of class unless otherwise notified. May be repeated for credit.

Placement in this group is by audition only.

Course fee: \$25

FA241 (FA024 in Middle School)

Intermediate Choir

Open to all students who would like to sing. There will be basic music theory and sight singing training while learning fun and exciting music that will be prepared for

performances. This class will be designed to prepare students for the Advanced Choir experience.

Prerequisite: None

Course fee: \$25

FA242 (FA025 in Middle School)

Advanced Choir

In this course, a variety of advanced music including show tunes, folk music and classical music will be learned and performed. Those who are interested in auditioning for Regional or All State Choirs are encouraged to join. Preparation for auditions will include vocal training and sight singing training.

Prerequisite: Intermediate Choir and/or permission of instructor.

Course fee: \$25

FA251

Show Choir

Show Choir, by audition, will offer students the opportunity to learn advanced music, stage presence and performing skills; performances would be scheduled and mandatory. This choir would require time before the regular school day at least 3 days a week; it would not be offered during the 1-8 period day.

Prerequisite(s): Open to Grades 9-12 only, by audition

Course Fee: \$25

FA261 (FA026 in Middle School)

Introduction to Contemporary Music & Composition

An introductory instruction on basic chord progressions, improvisation and song writing. A small review of contemporary music. This class is for beginning or just beginning guitar, bass guitar, drums, keyboards and contemporary vocalists. May be repeated for credit.

By audition only or permission from the director.

Course fee: \$25

FA271 (FA027 in Middle School)

Contemporary Music & Composition

An advanced class for guitar, bass guitar, keyboards, drums and contemporary vocalists. This class includes more advanced improvisation, chord structures and writing skills. May be repeated for credit.

By audition only or permission from the director.

Course fee: \$25

FA281 (FA028 in Middle School)

Intermediate Band

This is a course for students wanting to learn an instrument or already playing an instrument and developing concert band skills. The format includes full band rehearsal, sectionals and a small amount of individual time to focus on scales. Members of this

group will be offered the opportunity to compete in regional/state competitions and solo and ensemble. All performances are mandatory. May be repeated for credit.

Placement by audition or permission of the band director.

Course fee: \$25

FA291 (FA029 in Middle School)

Concert Band

This is a course for more advanced students who have developed a certain level of proficiency on their instrument. This class is by audition only or by permission of the band director. The format includes all of the opportunities of the intermediate band plus additional performances at awards nights and graduation. All performances are mandatory. May be repeated for credit.

Placement by audition or permission of the band director..

Course fee: \$25

Dance

Note: Dance will not be offered in 2006-07.

FA301 (FA 031 in Middle School)

Dance

The exact styles of dance emphasized in this class will depend on the instructor hired, but could include jazz, tap, modern, ballroom, and ballet.

Prerequisite(s): None

Drama

FA401 (FA041 in Middle School)

Drama Performance

Students in Drama Performance will learn dramatic techniques in the course of preparing and performing dramatic theater pieces. Students will perform in the class productions. Enrollment may be limited.

Prerequisite(s): None

FA411 (FA042 in Middle School)

Drama Production

Students in Drama Production will learn production techniques such as set design, set construction, lighting and sound in conjunction with performances produced by the Drama Performance class. Drama Production students will not normally perform in the productions. Enrollment may be limited.

Prerequisite(s): None



Foreign Language

Middle School Courses

FL001

Latin I

Latin I introduces students to the myth, literature and culture of the ancient Greeks and Romans. The text, *Ecce Romani*, emphasizes the learning of Latin vocabulary and grammar, skills that increase the students' understanding of the English language and prepares them for the study of modern languages. The adventures and stories of the fictional Cornelii family give the students a feel for Roman culture and daily life in A.D. 80. Latin I is required for all 7th graders and is a prerequisite for Latin II.

Course fee: \$10

FL011

Latin II

This class, for 8th grade students, continues to study of the Latin language, introducing past verb tenses and a more thorough understanding of noun declensions. We continue our acquaintance with the Cornelii family as they make their way to Rome. In myth, we will study Greek heroes and the qualities that make a hero. At the completion of Latin II, students will move on to their choice of modern language.

Prerequisite: Latin I and permission of instructor

Course fee: \$10

High School Courses

Graduation Requirements: minimum three credits required within Grades 9-12; four credits recommended

FL111

French I

The students will begin working on speaking, reading, listening to and writing French. This first year in particular, the students will learn how to accomplish basic tasks in French, using all four of the above-mentioned skills. In addition, the students can expect to begin learning about France and the French, as well as French-speaking people around the world.

Prerequisite: None

Course fee: \$15

FL211**French II**

Using the four skills necessary for proficiency – speaking, listening, reading, and writing – the students will continue to learn about the French-speaking world and continue to work on being able to communicate in daily interactive situations. There will be an increasing emphasis on oral proficiency this second year.

Prerequisite: Grade of C or better in NPA's French I or by placement exam

Course fee: \$15

FL311**French III**

Again, through using all four proficiency skills –speaking, listening, reading and writing – the students will continue their study of grammar and the Francophone world. There will be an increasing emphasis on writing as well as on oral work.

Prerequisite: Grade of C or better in NPA's French II or by placement exam

Course fee: \$15

FL411**French IV**

The students should expect to improve in all four areas of language acquisition: reading, writing, listening and speaking. The vehicles for much of this will be the reading and studying of short stories, the study of French films, a revision of grammar and the writing of compositions. Occasionally, there will be short units on French Art and History.

Prerequisite: Grade of C or better in NPA's French III or by placement exam

Course fee: \$15

FL441**French IV Honors**

This class will meet as a subgroup during the French IV class. The French IV Honors class will challenge those students who are capable of moving very quickly through the regular French IV materials. They will read more literature and be required to master finer points of French grammar.

Prerequisite: Students should have an A in French III and permission of the instructor to enroll in this class.

Course fee: \$15

NOTE: German I will no longer be offered after 2005-06.

FL221**German II**

This course builds on the pronunciation, vocabulary, grammar, writing, conversation and culture from German I and students will write and translate from German magazines and newspapers and write conversations.

FL321**German III**

Builds on German II as students begin to master conversations, grammar, compositions and culture. More advanced translations and reading of German masters are expected.

FL131**Spanish I**

Spanish I introduces the fundamentals of pronunciation, basic vocabulary, grammar of the Spanish language. The class is designed to give students the foundations to proficiency that will satisfy basic and routine social situations and limited work requirements. Students will be introduced to the present and preterit indicative tense of the language. Students begin to develop basic communication skills such as reading, writing and speaking in Spanish. Students are also introduced to different cultures of the Spanish speaking world.

Prerequisite: None

Course fee: \$10

FL231**Spanish II**

Spanish II builds on the basics of pronunciation, vocabulary and grammar of the Spanish language. The class is designed to build students skills necessary to satisfy routine social demands and limited work requirements. Students will continue to improve upon mastering the present and preterit tenses as well as being introduced to the future, imperative and imperfect indicative tenses. Students will strengthen their communicative skills for reading, writing and speaking with emphasis on daily interactive situations in Spanish. Students will also gain a wider knowledge of cultures of the Spanish speaking world.

Prerequisite: Grade of C or better in NPA's Spanish I or by placement exam

Course fee: \$10

FL331**Spanish III**

Spanish III continues to build on the information of the previous two years of Spanish. There is a greater emphasis on oral proficiency; however a significant amount of time will be applied to reading and writing. Students should begin mastering the future, imperative and imperfect tenses. They will be introduced to the subjunctive mood and perfect tenses. Students should have the skills necessary to satisfy social demands and limited work requirements. Students continue to learn about Spanish speaking cultures as well as have a chance to encounter Mexican cultures first hand by participating in a Mexican Immersion experience.

Prerequisite: Grade of C or better in NPA's Spanish II or by placement exam

Course fee: \$10

FL361**Spanish III Honors**

This class will meet as a subgroup during the Spanish III class. The Spanish III Honors class will challenge those students who are capable of moving very quickly through the regular Spanish III materials. They will be required to master finer points of Spanish grammar. Students will be models for the regular academic Spanish III students and may serve as tutors.

Prerequisite: Students should have an A in Spanish II and permission of the instructor to enroll in this class.

Course fee: \$10

FL431**Spanish IV**

Spanish IV continues to build on the information of the previous three years of Spanish. There is a greater amount of emphasis on speaking, reading and writing proficiency. Students master all previous tenses as well as fine tune all information learned in the past several years of study. Students also study various forms of literature, film and music of Latin America. Students should have the skills necessary to satisfy social demands and limited work requirements. Students continue to learn aspects of Latin American cultures as well as have a chance to encounter Mexican cultures first hand by participating in a Mexican Immersion experience.

Prerequisite: Grade of C or better in NPA's Spanish III or by placement exam

Course fee: \$10

FL461**Spanish IV Honors**

This class will meet as a subgroup during the Spanish IV class. The Spanish IV Honors class will challenge those students who are capable of moving very quickly through the regular Spanish IV materials. They will be required to master finer points of Spanish grammar. Students will be models for the regular academic Spanish IV students and may serve as tutors.

Prerequisite: Students should have an A in Spanish III or Spanish III Honors and permission of the instructor to enroll in this class.

Course fee: \$10



Mathematics

High School Graduation Requirements: taking four years during grades 9-12 required; minimum three credits earned required for graduation (allowing a student required to repeat one year of math to still graduate)

IMPORTANT NOTES:

Students and parents should remember that the public Arizona universities require one year of math beyond Algebra II. Students who take Pre-Algebra in the ninth grade and who plan to go to a public university in Arizona must take math courses in summer school in order to complete Algebra I, Geometry, Algebra II, and FST (Functions, Statistics and Trigonometry) before graduating from NPA.

Please note that students are registered for all courses after placement by exam and/or by teacher recommendation. Students need a grade of C or better to progress to the next appropriate math course in the sequence.

MA101 (MA001 in Middle School)

Math Foundations

This course reviews basic arithmetic skills and teaches approaches to problem solving. Students also learn about fractions, decimals, percentages, basic geometry, and probability. The course lays a foundation for pre-algebra.

Prerequisite: Placement by examination.

MA201 (MA011 in Middle School)

Pre Algebra

This course provides final preparation for formally studying algebra. Students are introduced to elements of algebra (integers, rational numbers, irrational numbers, and variables). The focus, however, is on each student solidifying his or her understanding of basic concepts and problem solving. In addition students learn basic probability, statistics, and graphing concepts useful in everyday life. Students also review and extend their knowledge of two- and three- dimensional geometric concepts.

Prerequisite: Placement by examination, a final grade of "C" or better in Math Foundations, or permission of instructor.

MA301 (MA021 in Middle School)

Algebra I-A

Algebra IA is the first year of a two year course in Algebra I. It is designed for students whose performance in Pre-Algebra indicates that attempting to complete Algebra I in one school year is not advisable. Students learn the same content as Algebra I students, but at a slower pace. During this first year, students begin by reviewing and strengthening their Pre-Algebra skills. They then move on to learning about functions,

graphs of functions, linear and quadratic equations, solving equations and inequalities of varying degrees of difficulty, and solving systems of equations.

Students who take Algebra IA should also be aware of the public Arizona universities' requirements as detailed above.

Prerequisite: Placement by examination, a final grade of "C" or better in Pre-Algebra, or permission of instructor.

Course Fee: \$7

MA311 (MA041 in Middle School)

Algebra I-B

This is the second half of a two year high school level algebra course that covers the following topics: equation solving; inequalities and their solutions; factoring; graphing linear equations; solving and graphing quadratic equations. Algebra I is a foundation for all higher level math courses.

Prerequisite: Placement by examination, a final grade of "C" or better in Algebra I A, or permission of instructor.

MA321 (MA031 in Middle School)

Algebra I

This is a standard high school level algebra course that covers the following topics: operational symbols and their properties; integers and rational numbers and their properties; equation solving; inequalities and their solutions; factoring; linear equations and graphing; quadratic equations – solving and graphing. Algebra I is a foundation for all higher level math courses.

Prerequisite: Placement by examination, a final grade of "C" or better in Pre Algebra, or permission of instructor.

MA401 (MA051 in Middle School)

Geometry

The geometry course provides a general overview of geometric principles with a review of algebraic concepts and factoring. Topics for geometry include, but are not limited to: constructions, transformations, triangle relationships, parallel line relationships, circle relationships, areas, and volumes.

Prerequisite: Placement by examination, a final grade of "C" or better in Algebra I or Algebra IB, or permission of instructor.

MA501

Algebra II

This second course in algebra reviews and expands on the concepts introduced in Algebra I. New topics include polynomials, matrices, trigonometry, exponents, and logarithms. A graphing calculator is necessary, and it is recommended that students use a TI-83 or TI-84, the calculator that the instructor will be using to explain the material.

Prerequisite: Placement by examination, a final grade of "C" or better in Algebra I and Geometry, or permission of instructor.

MA511**Algebra II Honors**

Algebra II Honors covers the same topics as Algebra II. However, this course includes a more in-depth study of some topics such as trigonometry, exponents and logarithms. More extensive work on the graphing calculator will also be included.

Prerequisite: A final grade of A in Algebra I and Geometry or permission of the instructor.

MA601**Functions, Statistics and Trigonometry (FST)**

FST is a one year course for students who have successfully completed Algebra II but are not yet ready for Pre-Calculus. Functions, statistics, and trigonometry are viewed as the result of transformations. This course provided materials for students to learn to display, describe, transform, and interpret numerical information in the form of data, graphs, or equations. A graphing calculator is necessary for this course. Students in grades 10 or 11 who successfully complete this course will go on to Pre-Calculus.

Prerequisite: Successful completion of Algebra II or permission of instructor.

MA701**Precalculus**

Precalculus is a three semester course. The first two semesters are referred to as Precalculus; the third semester, along with the first semester of Calculus is referred to as Precalc/Calc

The major focus of the Precalculus class is functions – twelve basic functions, their graphs, analysis of the functions, general characteristics of families of functions and application of this knowledge using real data. Emphasis will be placed on solving and modeling using these functions for application in real world situations.

Prerequisite: Successful completion of FST or a final grade of “B” or better in Algebra II Honors or permission of instructor.

MA801**Precalculus/Calculus**

During this last semester of precalculus (fall), topics covered include: vectors, parametric and polar equations; operations with matrices; analytic geometry (conic sections and their applications in science), and discrete mathematics which includes binomial theorem, sequences and series, mathematical induction, and probability and statistics.

Topics covered during the first semester of calculus (spring) include: rate of change, limits (including limits involving infinity), tangent and normal lines, differentiation, power rule, product rule, and quotient rule.

Prerequisite: A final grade of “C” or better in Precalculus, or permission of instructor.

MA901
AP Calculus

This course prepares students for the Advanced Placement Calculus AB test which is administered in May. Topics include: displacement; velocity and acceleration as derivatives; derivatives of trigonometric, exponential and logarithmic functions; chain rule; implicit differentiation; finding critical points; antidifferentiation; Fundamental Theorem of Calculus; antiderivatives and slope fields; integrations by parts and by substitution; exponential growth and decay; areas in the plane; volumes; applications to science and statistics.

After the AP exam, we will also cover L'Hopital's rule, improper integrals, and partial fractions.

Prerequisite: A final grade of "C" or better in Precalculus/Calculus, or permission of instructor.

AP Exam Fee (from 2006; will be higher in 2007): \$82



Physical Education

7th grade students may take PE001. All 8th grade students will normally take either PE001 (if they did not take it in Grade 7) or PE002 (if they did take PE001 in Grade 7). **In 2006-07, however, only PE101/PE001 will be offered.**

High School Graduation Requirements: One credit of PE101 (PE/Health) required sometime during grades 9-12. Students who completed PE101 PE/Health at NPA during grade 7 or 8 may instead satisfy the requirement with PE201.

PE101 (PE001 in Middle School)

Physical Education/Health

This course includes two complementary components. The classroom health component addresses Arizona State Standards for health education, including fitness, nutrition, disease prevention, personal health behaviors, and many others in an effort to promote a healthy lifestyle both physically and mentally. The physical application component will include exercise as well as instruction and practice in basics of various team sports. Students will be expected to participate actively in both components of the course and follow guidelines regarding appropriate clothing for physical activity, safety issues, and proper use of gym equipment and space.

Prerequisite: None

PE201 (PE002 in Middle School)

Physical Education

NOTE: Not offered until 2007-08 school year

This course is for students who wish to include physical activity and sports in their daily schedule. This course consists only of the physical application component of the PE/Health course. High school students who have already completed PE/Health may also take this course.

Prerequisite for 8th grade students: Completion of PE001

Prerequisite for High School Students: Completion of PE001 or PE101



Science

Middle School Courses

SC001

General Science 7

The 7th grade General Science course serves as a comprehensive starting point for the 7th grade students beginning their journey toward more advanced and specific scientific endeavors. The emphasis of this course is on life science and earth science, drawing on the connections between the two areas. The class focuses on hands-on activities and learning. The students will practice basic lab techniques, participate in individual and group experimentation and projects, and observe classroom demonstrations. Science skills that will be emphasized include the following; writing lab reports, experimental design, developing powers of observation, and developing a debate voice. All 7th grade science students will participate in the Science Fair.

Lab/Materials Fee: \$15

SC011

Physical Science 8

As the 8th grade course, Physical Science will be an introduction to the basics of chemistry and the basics of physics. The physics portion of the course will cover energy and motion, waves, light, sound, and electricity. The chemistry portion will include studies of the basic nature of matter, kinds of substances and how these substances interact. The course will include many hands-on lab activities ranging from short mini-labs to more in-depth multi-day investigations. The course aligns with the National Science Education Standards.

Lab/Materials Fee: \$15

SC021

Honors Physical Science 8

Honors Physical Science will be an introduction to the basics of chemistry and the basics of physics. The physics portion of the course will cover energy and motion; waves, light, sound, and electricity. The chemistry portion will include studies of the basic nature of matter, kinds of substances and how these substances interact. The honors students' more advanced standing in mathematics, relative to the average 8th grade student, will allow a more in-depth quantitative study of these subjects than is possible in the non-honors course. The course will include many hands-on lab activities ranging from short mini-labs to more in-depth multi-day investigations. This course will provide an excellent foundation for taking both chemistry and physics at the high school level in addition to a strong process background for the life sciences. The course aligns with the National Science Education Standards.

Prerequisites: Teacher recommendation and placement exam.

Lab/Materials Fee: \$15

High School Courses

Graduation Requirements: three credits laboratory science required; four recommended

SC101

HS Biology

This course, typically taken during 9th grade, serves as a comprehensive introduction to the life sciences. The course will emphasize the ecological connections that run throughout biology and relate them to all the major aspects of the discipline. The course is broken into 4 quarter units: Ecology, Cells and Cell Processes, Prokaryotes, Eukaryotes and Plants, and Animals and Animal Systems. There are high expectations of the students in an effort to prepare them not only for the AIMS Science Test (piloted in spring, 2007 and required as of spring, 2008) but also for the future option of AP Biology later in high school.

Prerequisite: None

Lab/Materials Fee: \$25.00

SC111

HS Life Sciences

This course, typically taken during 9th grade as an alternative to HS Biology, is a more narrowly focused introduction to the life sciences. Students can use this class as an early step in their journey toward more advanced and specific scientific endeavors. While SC211 also emphasizes the ecological connections that run throughout biology and relates them to the major aspects of the discipline, the approach is one of greater depth and reinforcement of key scientific and biological concepts. This course is an appropriate option for students who do not intend to go further within life sciences during high school, and will adequately prepare them for the AIMS Science Test (piloted in spring 2007 and required as of spring 2008).

Prerequisite: None

Lab/Materials Fee: \$25.00

SC201

Chemistry

General Chemistry I is a college preparatory lab course covering chemistry in a mathematical manner. The course covers atomic structure, chemical reactions, stoichiometry, chemical periodicity, acids and bases, oxidation-reduction reactions and electrochemistry.

Prerequisites: Successful completion of Algebra I. Students not following safety procedures may be administratively dropped from the class.

Lab/Materials Fee: \$25.00

SC211

Chemistry in the Community

Chemistry in the Community is a course developed by the American Chemical Society that explores chemistry in a non-mathematical fashion. This is a lab course that explores the basic concepts of chemistry and their applications in everyday activities.

Prerequisite: None

Students not following safety procedures may be administratively dropped from the class.

Lab/Materials Fee: \$25.00

Not offered 2006-07

SC221

Accelerated Chemistry

Accelerated Chemistry is a first year chemistry course for the more mathematically advanced student with a desire to pursue a more in-depth study of Chemistry. The student will cover in more mathematical detail much of the same topics as the Chem I class. Depth is the key so the student electing this course must expect more homework and a faster pace.

Prerequisite: A final grade of A in Algebra I is strongly advised. Students not following safety procedures may be administratively dropped from the class.

Lab/Materials Fee: \$25.00

SC301

Earth Science

This course serves as a comprehensive introduction to the study of the earth. The course emphasizes the dynamic processes that shape the earth in addition to connecting those processes to life forms. The main units are Geology, Water, and Water Systems including Weather and Space and the Universe.

Prerequisite: None

Lab/Materials Fee: \$25.00

SC311

Physics

This course examines light, mechanics, electricity, electromagnetism, sound, and nuclear physics.

Pre-requisites: Successful completion of or concurrent enrollment in Algebra II and permission of the instructor. Students not following safety procedures may be administratively dropped from the class.

Lab/Materials Fee: \$25.00

SC401

Advanced Placement (AP) Biology

AP Biology is a capstone course that is taught at a college level where students can earn college credit if they do well on the AP exam. The concepts range from cell chemistry, to cell morphology, genetics, ecology, evolution, and population genetics. AP Biology is a fast paced course that requires students to be self-motivated and willing to push themselves academically. The book used is "Biology" 5th ed. By Campbell, Reece, and Mitchell ISBN# 0-8053-6566-4.

Prerequisites: High School Biology or NPA 7th grade Honors Life Sciences and high school chemistry.

Lab/Materials Fee: \$25.00

AP Exam Fee (from 2006; will be higher in 2007): \$82

SC411

Advanced Placement (AP) Chemistry

AP Chemistry is a college level lab course covering the same topics as Chemistry I in greater depth, with the added topics of thermodynamics, equilibrium, nuclear chemistry and a basic introduction to organic topics. This course prepares students to take the College Board AP Chemistry exam.

Prerequisite: Successful completion of Biology and Accelerated Chemistry.

Consideration will be given to students with an A in Chemistry.

Lab/Materials Fee: To Be Determined

AP Exam Fee (from 2006; will be higher in 2007): \$82

SC421

Advanced Placement (AP) Environmental Science

AP Environmental Science is a college level course that encapsulates elements of biology, chemistry, and earth science in an effort to address current environmental issues. This course can be broken into approximately 6 units: Ecosystems and How They Work, The Human Population, Renewable Resources, Energy, Pollution and Prevention, and Working Towards a Sustainable Future. As in all AP courses, students are expected to be well disciplined in studying, have excellent reading and writing skills, and be able to work at a fast pace dealing with complex topics. College credit can be earned if a student does well on the AP exam. The book used is "Living in the Environment" 12th ed. By Miller ISBN# 0-534-37697-5.

Prerequisites: Successful completion of (1) either NPA 7th grade Honors Science or HS Biology; and (2) Chemistry.

Lab/Materials Fee: \$25.00

AP Exam Fee (from 2006; will be higher in 2007): \$82



Social Studies

Middle School Courses

Middle school students are required to take one year of cultural and physical geography and one year of US History up to 1877. The Middle School social studies classes correlate with Middle School English, where students read literature based on regions and time periods being studied.

SS001

World Geography 7

World Geography is a year long course which emphasizes the relationship between geography and culture in selected regions of the world. Time is devoted to developing note taking, map reading, and organizational skills. Topics include Western Europe, Eastern Europe, Canada, Latin America & the Caribbean, North Africa and the Middle East, and Southeast Asia.

SS011

US History 8

This course focuses on US History and Geography beginning with pre-history and ended with Reconstruction in 1877. The class format includes book work along with many supplemental assignments. Heavy emphasis is placed on discussions and comprehension of historical people and movements.

SS021

Honors US History 8

This course follows the same timeline and format as the other 8th grade classes. However, there is inclusion of current events and a more in-depth exploration of the subject matter.

Prerequisite: Teacher Recommendation

High School Courses

Graduation Requirements: four credits required

SS101

World History to 1900

Honors World History is a survey course taken during 9th grade that emphasizes the history of World civilization. A survey of the major cultural, political, social, and economic developments of western cultures will be examined. Primary source documents, the historical method, and research and writing in the discipline of history are emphasized.

SS111

Honors World History to 1900

This course follows the same general curriculum as SS101, but explores the historical content in greater depth and develops students' capacity for historical study to a greater degree in preparation for later study in AP US History.

Prerequisite: Teacher recommendation

SS201 World History 1900 to Present (1st semester Grade 10)/

SS202 US History to 1820 (2nd semester Grade 10)

In this year-long sequence, students complete their study of world history in fall semester with an examination of the twentieth century. Spring semester begins the study of US History that surveys the growth and development of the United States and its people from colonization to 1820.

SS211 Honors World History 1900 to Present (1st semester Grade 10)/

SS212 Advanced Placement (AP) US History to 1820 (2nd semester Grade 10)

In this year-long sequence, students complete their study of world history in fall semester with an examination of the twentieth century. Spring semester begins the study of AP US History that surveys the growth and development of the United States and its people from colonization to 1820.

AP US History is a rigorous course that emphasizes wide reading, critical thinking, and research. Special training in skills related to analysis of historical documents is stressed.

Prerequisite: Teacher recommendation

SS301

US History 1820 to Present

This course, taken in Grade 11, follows the study of US History from 1820 through Reconstruction and the post-Civil War economic developments to the present day. The events of our national history are viewed in terms of the impact they have had on the political, economic, social, and cultural character of American society.

SS311

Advanced Placement (AP) United States History 1820 to Present

AP US History is a rigorous course that emphasizes wide reading, critical thinking, and research. Special training in skills related to analysis of historical documents is stressed. Students may take the Advanced Placement test in May, for which college credit may be given for a qualifying score. This course fulfills the American History requirement.

Prerequisite: Successful completion of SS212 or permission of instructor

AP Exam Fee (from 2006; will be higher in 2007): \$82

Course fee: \$15

**SS401 United States Government/
SS402 Economics**

U.S. Government is a required semester-long course taken in the fall of Grade 12 that concentrates on the democratic principles upon which the United States is founded. The meaning of citizenship in terms of the rights and responsibilities of the people of the United States is stressed. Areas examined include the adoption of the Constitution, the three branches of government, local and state governments, the art of politics, and current events.

Economics is a required semester-long course taken in the spring of Grade 12 which introduces the fundamental principles and theories of economics. Basic issues of scarcity, supply and demand, market, the role of government, employment, inflation, and money and banking are examined.

**SS411 Honors United States Government/
SS412 Honors Economics**

This two-semester sequence, designed for students with a deeper interest in government and economics, expands upon the expectations of SS401 by challenging students to synthesize and evaluate the subject matter to a greater degree.

Prerequisite: Teacher recommendation



Electives

EL000

Study Hall

Study hall is for students who need time during the school day to complete assignments and prepare for tests. It is not guaranteed that students get study hall if requested.

Prerequisite(s): Demonstrated ability to remain on task during individual work situations, as verified by current study hall teacher or, if student has no current study hall, a core class teacher from the current school year

SE101 (SE001 in Middle School)

Transitional Study Skills

This course is taken by many of the students who have an Individual Education Plan (IEP). Students are given the opportunity to develop their study skills and complete assignments under the supervision of and with assistance from a special educator.

Prerequisite: Placement is made by the Director of Special Education

MA911

AutoCAD I

AutoCAD is an elective course for high school students. It teaches the use of AutoCAD to generate creative designs (e.g. Sierpinski's triangle, cardioids, etc.), mechanical drawings, and architectural drawings. Students will create title blocks for their drawings, and learn the basics of 2-dimensional drafting using the AutoCAD LT 2004 software.

Prerequisite(s): Open to grades 9-12 only

MA921

AutoCAD II

Returning CAD students will learn more advanced applications within AutoCAD.

Prerequisite(s): MA911

EN251 (EN041 in Middle School)

Creative Writing

This course explores writing in a wide range of forms and encourages students to approach and practice writing in new ways. Students will read and write poetry, short stories, fiction and non-fiction. At the heart of the course is a love for language and an active imagination. Assignments include writing a children's story, weekly journal writing to brainstorm and develop ideas, writing character sketches, and exploring points of view and voice.

Prerequisite(s): None

EN511**Literary Magazine**

This course covers all aspects of producing a literary magazine: writing and editing stories, design and layout, determining editorial direction of the magazine, handling the business aspects of selling and advertising. Students will have positions of responsibility and work as a team.

NOTE: May be combined with Creative Writing in 2006-07 pending staffing.

Prerequisite(s): Open to Grades 9-12 only

EL301**Mock Trial**

Mock Trial is a courtroom competition. Students will learn about law and even get to fine tune their acting skills. This course is designed for students new to the Mock Trial program.

Prerequisite(s): Open to grades 9-12 only

EN521 (EN051 in Middle School)**Speech and Debate**

Afraid or shy about speaking in public? So are most folks. In this course we'll work to pump up confidence by practicing public speaking and the elements of debate. We'll compete in regional competitions and participate in local performances.

Prerequisite(s): None

EL501 (EL011 in Middle School)**Yearbook**

Students in this class will produce NPA's yearbook. Before actual production begins, however, students will be required to complete units in yearbook rationale and philosophy (including legal issues); photography; copy, caption, and headline writing; yearbook page layout; and advertising.

Prerequisite(s): None