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Schedule your appointment for June or July and get 50% off your sitting fee.

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412.303.9657
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Thomas Bianco
412-967-7655
7206 Mcknight Rd.
Pittsburgh, PA 15237
tbianco@allstate.com

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Dear Parents and Students,

Our Program of Studies is designed to explain the 9th, 10th, 11th, and 12th grade curriculum and course options offered at North Hills High School for the 2017-18 school year. In addition to the course offerings, the Program of Studies contains descriptions of the courses, graduation requirements, and information about special programs available to our students.

Parents and students will have the opportunity to complete the course request process online by accessing PowerSchool from any computer with internet access. The course request window will be available at 6:00 p.m. on February 1, 2017 and will remain open until February 10, 2017. Students who do not complete their course request during this window will be assigned a schedule and run the risk of not getting their top choice of coursework.

A Course Request Worksheet is provided in the back of this program for your use in the planning of courses for the 2017-18 school year and beyond. This will allow parents to have a greater involvement in their child's course requests as they register online, and in their child’s individual academic plan for high school graduation.

The course request process is the beginning of a lengthy scheduling process. Please be aware that this step is for students to indicate the courses they are interested in for the 2017-18 school year. A final student schedule will be created after resolving scheduling constraints. Students will be provided with their tentative schedule prior to leaving school for the summer and a final schedule will be available in August.

Please take the opportunity to review the course offerings carefully to be certain that you are requesting courses that are both of a personal interest and will fulfill the graduation requirements established by the North Hills School District. Be certain that you have met the necessary prerequisites for each course requested. If you have questions about course requests, please consult with your counselors and teachers.

The High School Curriculum Night is scheduled for 6:00 p.m. on February 1, 2017. Curriculum Night provides parents an opportunity for greater understanding of the programs and courses through presentations by the North Hills High School teachers. Please take advantage of this opportunity to meet with our staff.

In addition, students and parents can complete their course request process at the high school during Curriculum Night. Please be sure to take advantage of this opportunity.

Beth E. Williams
Principal
North Hills High School
412-318-1402


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GRADUATION REQUIREMENTS

A minimum of 24 credits, as outlined below, is required to be completed in grades 9-12. Additionally, a minimum of 7 credits must be scheduled each year. These requirements are established by the Pennsylvania Department of Education and the North Hills School District Board of Education. Students and parents are reminded that in order for students to participate in commencement, ALL credits AND requirements must be satisfied upon the student’s completion of the normal school year. It is the student’s and parent’s responsibility to know the requirements for promotion and graduation and to make plans accordingly.

4.0 credits of English including:
- 1 credit of English 9
- 1 credit of English 10
- 1 credit of American Literature and Composition in grade 11 or AP English Language
- 2 of the following semester courses:
  - Adventure & Quest, Apocalyptic Literature, Female Perspectives, Questioning the Self, or Social Class Warfare
  - or AP English Literature
  - or English Lab 12

4.0 credits of Social Studies including:
- 1 credit of American Studies
- 1 credit of World History
- 1 credit of American Government
  - or AP US History, AP European History, AP Government and Politics, Honors American Govt.
- 1 credit from the following courses:
  - AP US History, AP European History, AP Government and Politics
  - Contemporary History – required if an AP course is not selected
  - Social Studies 12
  - Social Studies Elective course

3.0 credits of Mathematics including:
- 1 credit of Algebra 1
- 1 credit of Geometry
- 1 credit of Algebra 2

3.0 credits of Science including:
- 1 credit of Biology
- 1 credit of Chemistry
- 1 credit of Science Elective courses

2.0 credits of Physical Education

0.5 credit of Health

2.0 credits of Arts/Humanities

5.5 credits of electives

24 Total credits

NOTE: Arts & Humanities as defined by the Pennsylvania Department of Education and the North Hills School District include courses in the following departments: Art, World Language, Family & Consumer Science, Technology Education, and Speech Arts.

In addition, the Pennsylvania Department of Education REQUIRES all students to demonstrate proficiency in Algebra, Biology, and Literature. These standards are assessed with a state mandated Keystone Exam. Students will take the Keystone Exam after the completion of Algebra 1, Biology, and English 10. Students not demonstrating proficiency on these exams will be required to participate in remediation in the designated area of Algebra, Biology, or Literature. Students will also have the opportunity to retake the exam after receiving remediation. Scores on these exams will be recorded on the student’s official transcript.

A score of proficient will be recorded on the student transcript only if this project is completed successfully. A proficient score must be recorded to satisfy graduation requirements and receive a North Hills Diploma.
Quality Point Values

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Grade</th>
<th>AP QP</th>
<th>CHS QP</th>
<th>Honors/Pre AP QP</th>
<th>Standard QP</th>
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</thead>
<tbody>
<tr>
<td>100 – 93</td>
<td>A</td>
<td>4.60</td>
<td>4.40</td>
<td>4.20</td>
<td>4.00</td>
</tr>
<tr>
<td>92 – 90</td>
<td>A-</td>
<td>4.50</td>
<td>4.25</td>
<td>4.00</td>
<td>3.75</td>
</tr>
<tr>
<td>89 – 87</td>
<td>B+</td>
<td>4.00</td>
<td>3.75</td>
<td>3.50</td>
<td>3.25</td>
</tr>
<tr>
<td>86 – 83</td>
<td>B</td>
<td>3.75</td>
<td>3.50</td>
<td>3.25</td>
<td>3.00</td>
</tr>
<tr>
<td>82 – 80</td>
<td>B-</td>
<td>3.50</td>
<td>3.25</td>
<td>3.00</td>
<td>2.75</td>
</tr>
<tr>
<td>79 – 77</td>
<td>C+</td>
<td>3.00</td>
<td>2.75</td>
<td>2.50</td>
<td>2.25</td>
</tr>
<tr>
<td>76 – 73</td>
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<td>2.75</td>
<td>2.50</td>
<td>2.25</td>
<td>2.00</td>
</tr>
<tr>
<td>72 – 70</td>
<td>C-</td>
<td>2.50</td>
<td>2.25</td>
<td>2.00</td>
<td>1.75</td>
</tr>
<tr>
<td>69 – 65</td>
<td>D</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>64 – 0</td>
<td>E</td>
<td></td>
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</tr>
</tbody>
</table>

SCHEDULE CHANGE REQUESTS

1. No schedule changes will be granted based on lunch preference, teacher preference, or time preference.
2. Once the semester has begun, only those requests deemed to be crucial and essential will be approved. North Hills High School has a Drop Period, not a Drop/Add Period, and therefore, elective swapping is not permitted once the semester has begun.
3. Requests for dropping electives to move to a study hall will be considered.
4. No schedule change is guaranteed.
5. Schedule change requests must be initiated through the counseling offices and approved by a principal.

WITHDRAWAL FROM A COURSE

1. Students must be scheduled for and maintain a minimum of 7 credits per year. *
2. Withdrawal from a full year course after the 25th school day will result in a “WF” withdrawal fail course grade.
3. Withdrawal from a half year course after the 10th school day will result in a “WF” withdrawal fail course grade.
4. “WF” will have a negative impact on the student’s QPA.

*Students may withdraw from a course only if the withdrawal will not drop them below the required 7 credits. Classes cannot be added after the start of the school year. Students are encouraged to carry 7.5 - 8.0 credits so in the event of a withdrawal, they will still meet the required 7 credits.

SPECIAL PROGRAMS

Please see your counselor for additional information about any of the special programs listed below.

ADVANCED PLACEMENT (AP)

The Advanced Placement (AP) Program is a nationally recognized rigorous curriculum sponsored by The College Board. The AP Program provides an opportunity for high school students to choose college level courses and receive undergraduate college credits or advanced standing if their AP Exam scores qualify. Over 90% of colleges in the United States give credit or provide advanced standing to students whose AP Exam scores are acceptable. AP students will be required to take the AP Exam in May. North Hills High School prepares students for the following 26 Advanced Placement (AP) Exams:

- AP Biology
- AP Environmental Science
- AP Chemistry
- AP Physics 1
- AP Physics 2
- AP Physics C Electricity and Magnetism
- AP World History**
- AP US History
- AP European History
- AP Government and Politics: United States
- AP Calculus AB
- AP Calculus BC
- AP Statistics
- AP Computer Science

7
AP English Literature and Composition  AP Studio Art: 2D Design  AP Music Theory
AP English Language and Composition  AP Studio Art: 3D Design
AP Studio Art: Drawing
AP Art History

Offered Online:
AP Government and Politics: Comparative
AP Human Geography
AP Psychology
AP Macroeconomics
AP Microeconomics

* Offered using online services only, restrictions apply.
** Must enroll in 10th grade in conjunction with CHS Chemistry in the College Connections Program.

COLLEGE CONNECTIONS  3.0 CREDITS
The College Connections program is an accelerated program for 10th grade students principally designed to cultivate the habits of mind and academic skills necessary to succeed in Advanced Placement and college-level courses. Students selecting College Connections must simultaneously enroll in AP World History and CHS Chemistry. Students may earn 4 university level credits for the course Chemistry 0110 from the University of Pittsburgh and may be recommended for college level credits through The College Board in World History. Students enrolling in this College in High School (CHS) course will be required to pay a nominal fee to the universities for each course.

College Connections students will concurrently be registered in a 1.0 credit Honors Interdisciplinary Studies (Hon. CIS), which meets throughout the school year in conjunction with AP World History and CHS Chemistry creating a three period block. This block is designed to provide flexible and efficient use of time, and opportunities for students to strengthen skills in problem solving, understanding and interpreting information, constructing and evaluating arguments, assessing issues of change and continuity over time, and understanding diversity of interpretations through analysis of context, point of view and frame of reference.

COLLEGE IN HIGH SCHOOL (CHS)
The College in High School (CHS) Program enables North Hills’ teachers to work with local universities in a partnership to offer college level courses. CHS courses provide high school students the opportunity to earn college credits and receive a grade on a university transcript for courses successfully completed at North Hills High School. In many cases, students may transfer these credits to other universities. Students enrolling in the CHS program will be required to pay a nominal fee to the universities for each course. North Hills High School has concurrent enrollment agreements with Carlow University, CCAC, La Roche College, Point Park University, Seton Hill University and the University of Pittsburgh.

North Hills High School offers the following university consortium courses:
CHS Accounting: La Roche College
CHS American Sign Language: University of Pittsburgh  CHS Media and Communication: Point Park University
CHS Anatomy and Physiology 1: Carlow University  CHS Pottery: Carlow University
CHS Anatomy and Physiology 2: Carlow University  CHS Probability and Statistics: University of Pittsburgh
CHS Chemistry: University of Pittsburgh  CHS Psychology: La Roche College
CHS Argumentation: University of Pittsburgh  CHS Nutrition: Seton Hill University
CHS Business Calculus: University of Pittsburgh  CHS Spanish: University of Pittsburgh
CHS French: University of Pittsburgh  CHS Welding: Community College of Allegheny County
CHS German: University of Pittsburgh  CHS 2D Game Programming: Community College of Allegheny County
CHS Latin: University of Pittsburgh  CHS Microsoft Applications: La Roche College

EARLY EXIT
Students selecting their senior schedule may apply to participate in the Early Exit program. This option allows seniors who have met all graduation requirements by the end of the 1st semester of their senior year to enroll in college or technical school courses, participate in a pre-approved work experience, or enter into military obligations in lieu of attending high school classes during the 2nd semester. Students may attend the prom and graduation ceremonies in the spring. Diplomas are awarded in June. Completion of an application process and principal approval are required.
VOCATIONAL WORK EXPERIENCE

Students selecting their senior schedule may apply to participate in the Vocational Work Experience. This option allows seniors who have completed a minimum of 20 credits and have scheduled the necessary courses to meet all graduation requirements by the end of the school year to be dismissed early to participate in a preapproved work experience. Students selecting this option must enroll in the minimum number of credits required to graduate and show proof of employment. Students will be dismissed from school no earlier than 10:30 a.m. Completion of an application process and principal approval are required.

DUAL ENROLLMENT

Students selecting their senior schedule may apply to participate in the Dual Enrollment program. This option allows seniors who have completed a minimum of 20 credits and have scheduled the necessary courses to meet all graduation requirements by the end of the school year to enroll in college or technical school courses. Students selecting this option must enroll in a minimum number of credits required to graduate and show proof of enrollment. Students will be dismissed no earlier than 10:30 a.m. Completion of the application process and course approval by the principal will be required.

GIFTED AND TALENTED EDUCATION

In accordance with the PA State Board of Education, Public Law 94-142, Chapter 16, North Hills High School provides for gifted and talented students through the Gifted and Talented Education (GATE) department. The GATE program provides such students with a variety of enriching activities in an academically and socially supportive environment. Participants are encouraged to take challenging Honors, CHS and AP classes. Students should consult with their counselors and GATE teachers to make the most of the valuable opportunities available to them.

SPECIAL EDUCATION & RELATED SERVICES

The PA Special Education law and regulations, Public Law 94-142, and the federal Individuals with Disabilities Education Act Amendments of 1997, requires school districts to provide a Free Appropriate Public Education (FAPE) to all students with disabilities who are eligible for special education. FAPE means special education and related services are designed to meet the individual educational needs of students through an Individualized Education Program (IEP). The North Hills High School Special Education Department provides direct and supportive services for children who are vision or hearing impaired, emotionally disturbed, learning disabled, speech and/or language impaired, or who have other health impairments. Our goal is to enable each student to participate as fully as possible in the regular instructional environment and to facilitate the transition from school to the world of work or post-secondary education.

A.W. BEATTIE CAREER CENTER

North Hills High School, in conjunction with A.W. Beattie Career Center offers 10th-12th grade students the opportunity to begin training in a variety of career preparation courses. These courses offer students a transition directly into the workforce and prepare them for appropriate continuing education related to a chosen occupation. Students selecting to attend A.W. Beattie Career Center receive instruction toward 1.5 elective credits per semester and attend the high school for their remaining graduation requirements through 1/2 day programs at each school. Placement in morning or afternoon sessions is determined by scheduling and curriculum considerations and not by student request. Completed applications, including a parent or guardian’s signature, are required for Beattie enrollment and should be turned in with student course selection sheets.

THE ACADEMIES OF NORTH HILLS

Academic academies at North Hills High School guide students along a choice of coursework that closely aligns with their career goals and interests while exposing them to a cohort of peers with similar interests. Throughout their high school experience, academy students will continue to have the opportunity to take elective level courses outside their academy focus. Exposure to academies begins during the freshman year and students are able to begin formal study during their sophomore or junior year. Students are strongly encouraged to enroll in Career and Personal Planning (6245) to explore careers that align with their interests and begin developing an electronic portfolio. The Academy Admission Board comprised of administrators, guidance counselors, teachers and experts in the field will review applications for admission. To be considered for admission, a student is preferred to have a 3.0 QPA, demonstrate good attendance, must submit a letter of intent and secure teacher recommendation signatures.

Students may select from six academy programs:

- The Academy for Arts and Communication
- The Academy for Business and Finance
- The Academy for Engineering
- The Academy for Law and Government
These programs afford students an opportunity to explore a career field and develop transferable academic and workplace skills, while earning both high school and college credit. Academy students may participate in field trips, industry specific internships, shadowing programs and may be eligible for academy specific scholarships. Students will be encouraged to participate in extracurricular clubs and activities related to their academy to extend their learning experience. Throughout the academy experience, students will be provided with a framework of support to maximize the benefits of the academy. To demonstrate the acquisition of acquired skills, all academy students will be required to maintain and submit an electronic portfolio. Students are encouraged to continue to enroll in coursework outside their field of interest in order to have a diversified high school experience.

* Select Beattie Programs and courses may qualify for credit toward Academy Requirements. Please contact your guidance counselor if you have questions.*

## THE ACADEMIES

### THE ACADEMY FOR ARTS & COMMUNICATION

The Academy of Arts and Communication strives to provide rigorous and relevant course offerings to a diverse student population. Members of this academy will receive a personalized plan of study in designing, producing, exhibiting, performing, writing and publishing multimedia content including visual and performing arts and design, and journalism. Students entering this academy generally have a natural talent or interest in the arts, performing arts or communication.

**Students must complete 6.0 credits from the courses below:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5 Credit Introduction to Theater</td>
<td></td>
</tr>
<tr>
<td>0.5 Credit Acting &amp; Stage Production</td>
<td></td>
</tr>
<tr>
<td>0.5 Credit Television Production 1-4</td>
<td></td>
</tr>
<tr>
<td>0.5 Credit Sports Broadcasting</td>
<td></td>
</tr>
<tr>
<td>0.5 Credit Journalism 1-4</td>
<td></td>
</tr>
<tr>
<td>0.5 Credit Yearbook 1-4</td>
<td></td>
</tr>
<tr>
<td>0.5 Credit Conventions of Writing</td>
<td></td>
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<tr>
<td>0.5 Credit Creative Writing</td>
<td></td>
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<tr>
<td>0.5 Credit Speech</td>
<td></td>
</tr>
<tr>
<td>0.5 Credit CHS Argumentation</td>
<td></td>
</tr>
<tr>
<td>0.5 Credit Filmmaking 1-4</td>
<td></td>
</tr>
<tr>
<td>0.5 Credit Digital Art</td>
<td></td>
</tr>
<tr>
<td>0.5 Credit Photography 1 or 2</td>
<td></td>
</tr>
<tr>
<td>0.5 Credit Studio Art 1 or 2</td>
<td></td>
</tr>
<tr>
<td>0.5 Credit Sculpture 1 or 2</td>
<td></td>
</tr>
<tr>
<td>0.5 Credit Pottery 1 or 2</td>
<td></td>
</tr>
<tr>
<td>0.5 Credit Game Design</td>
<td></td>
</tr>
<tr>
<td>0.5 Credit Mobile Game Design</td>
<td></td>
</tr>
<tr>
<td>1.0 Credit Graphics</td>
<td></td>
</tr>
<tr>
<td>1.0 Credit AP Studio Art</td>
<td></td>
</tr>
<tr>
<td>1.0 Credit AP Art History</td>
<td></td>
</tr>
<tr>
<td>1.0 Credit Wind Ensemble</td>
<td></td>
</tr>
<tr>
<td>1.0 Credit Wind Symphony</td>
<td></td>
</tr>
<tr>
<td>1.0 Credit Symphonic Band</td>
<td></td>
</tr>
<tr>
<td>1.0 Credit Jazz Band</td>
<td></td>
</tr>
<tr>
<td>1.0 Credit Orchestra</td>
<td></td>
</tr>
<tr>
<td>0.5 Credit Guitar Ensemble</td>
<td></td>
</tr>
<tr>
<td>0.5 Credit Women’s Choir</td>
<td></td>
</tr>
<tr>
<td>0.5 Credit Music Technology</td>
<td></td>
</tr>
<tr>
<td>1.0 Credit AP Music Theory</td>
<td></td>
</tr>
<tr>
<td>0.5 Credit Acting I</td>
<td></td>
</tr>
<tr>
<td>0.5 Credit Acting II</td>
<td></td>
</tr>
<tr>
<td>0.5 Credit Acting III</td>
<td></td>
</tr>
<tr>
<td>0.5 Credit Voice and Diction</td>
<td></td>
</tr>
</tbody>
</table>

### THE ACADEMY FOR BUSINESS & FINANCE

The Academy for Business and Finance is designed to attract students who have an interest in today’s global market as it applies to business and finance. This academy provides students with authentic activities fostering a greater understanding of how business and finance impact our world. Students entering this academy generally have a strong foundation in mathematics and plan to pursue business, finance or economics at the post high school level. Through their coursework, students will acquire business principles in a variety of introductory and challenging courses such as: Accounting, Business Management, Economics and International Business and Ethics.

This academy gives students a hands-on introduction to modern global business and requires a strong academic foundation and emphasizes business-related projects. Students will have the opportunity to examine real world data from companies such as: Best Buy, Tommy Hilfiger and Toyota. So that students are prepared for 21st Century trends in business, the Academy for Business and Finance includes an emphasis on internationalism. Students will leave this program with communication skills and multicultural understanding that is so valuable in today’s global business arena.

**Students must successfully complete the following courses:**

- 1.0 Credit Accounting 1
- 0.5 Credit Career & Personal Planning
- 0.5 Credit Personal Finance

**Students must successfully complete 2.0 credits from the following courses:**

- 0.5 Credit Business Ownership
- 0.5 Credit CHS Microsoft Applications
- 0.5 Credit International Business and Ethics
- 0.5 Credit Economics
- 0.5 Credit Environmental Science
- 0.5 Credit Conventions of Writing
and at least 1.5 credits from the following courses:
- 1.0 Credit CHS Accounting 2
- 1.0 Credit CHS Business Calculus
- 0.5 Credit CHS Probability Statistics

1.0 Credit AP Statistics
0.5 Credit Sports and Entertainment Marketing
0.5 Credit law and Justice – Civil Law

**THE ACADEMY FOR ENGINEERING**

The Academy for Engineering is designed to attract students who have an interest in how the confluence of science, technology and math impact the world around us. This academy immerses students in authentic content that mirrors many undergraduate courses at the college level. Students entering this academy generally have a strong foundation in mathematics and science and interested in pursuing an engineering or related field. The primary focus of the Academy for Engineering is to expose students to content that will prepare them to study Engineering at the undergraduate level.

Rigorous and relevant coursework related to Newtonian mechanics, fluid mechanics, thermal physics, electricity and magnetism, waves and optics and atomic and nuclear physics will merge with hands-on lab work where students will examine the fundamentals of circuitry, electronic components and residential and commercial wiring. Students will exit this academy with a pure understanding of what the engineering profession encompasses with a career goal in mind.

**Students must successfully complete the following science courses:**
Honors or CHS Chemistry, AP Physics 1 or 2

**Students must successfully complete the following math courses:**
Honors Geometry, Honors Algebra 2,
Honors Trig/Pre-Calculus

and at least 2 of the following courses:
- CHS Probability & Statistics
- AP Physics C AP Calculus AP Statistics

and at least 3.0 credits from the following courses:
- 0.5 Credit Electricity & Electronics
- 0.5 Credit Architectural Design
- 0.5 Credit 3D Modeling and Animation
- 0.5 Credit Robotics and Engineering
- 1.0 Credit Engineering Drawing & Design 1
- 1.0 Credit Engineering Drawing & Design 2
- 1.0 Credit Material Engineering
- 1.0 Credit AP Environmental Science

**THE ACADEMY FOR LAW & GOVERNMENT**

The Academy for Law and Government is designed to attract students who have an interest in pursuing the fields of law, government or community leadership. This academy provides students with a challenging liberal arts and sciences curriculum that fosters a sense of civic responsibility by assuring programs, procedures, and laws are written so that future generations can explore life, liberty and the pursuit of happiness.

The academy is comprised of a community of learners who embrace high academic and social standards. Students will engage in rigorous and relevant course work embedded with interpersonal, social and communication skills. Students in this academy will have the opportunity to network with local leaders and stakeholders in the fields of law and government. Additionally, students will learn about specific social and legal issues that relate to law, government and the community by examining the Constitution, Bill of Rights, landmark Supreme Court cases and issues related to law enforcement while studying the legislative, executive, and judicial branches of the federal government. All students will contribute to community development by participating in a community service project that aligns with their area of interest.

**Students must successfully complete the following courses:**
Honors or AP World History
AP US Government and Politics
AP US History

and 2.5 credits from the following courses:
- 0.5 Credit Law and Justice
- 0.5 Credit Law and Justice – Civil Law
- 0.5 Credit Pennsylvania History and Government
- 0.5 Credit Conventions of Writing
- 0.5 Credit Language Enrichment
- 0.5 Credit Speech
- 0.5 Credit CHS Argumentation
- 0.5 Credit Environmental Science
- 0.5 Credit Forensic Science
- 0.5 Credit Psychology
- 0.5 Credit CHS Psychology
THE ACADEMY FOR MEDICINE  
COURSE NO. AC05

The Academy for Medicine is designed for highly motivated students who have an interest in pursuing a career in some of the fastest growing health career fields such as biomedical engineers, medical scientists, physician assistants, physical therapists and dental hygienists. Students successfully completing this academy may be able to enter college with advanced credits and will have the capacity to determine a more specified field of study at the university level. It is recommended that students interested in public health take one credit of AP Environmental Science as an elective credit.

This academy will provide students with a rigorous education that will prepare them for college and the pursuit of medical or other meaningful careers by examining the anatomy and physiology of the support and control systems of the human body: integumentary, skeletal, muscular and nervous as well as systems concerned with maintenance of the human body: endocrine, cardiovascular, respiratory, digestive and urinary. Ancillary skills such as analysis and problems solving, communication skills, professional behavior and ethics will be integrated into coursework.

Students must successfully complete the following courses:
Two levels of World Language
Honors Biology
Honors or CHS Chemistry
Honors Geometry
Honors Algebra 2
Honors Trig/Pre-Calculus

and 4.0 credits from the following courses:
1.0 Credit CHS Anatomy and Physiology 1
1.0 Credit CHS Anatomy and Physiology 2
1.0 Credit AP Biology
1.0 Credit AP Chemistry
1.0 Credit AP Physics 1 or AP Physics 2
1.0 Credit AP Calculus
1.0 AP Credit Environmental Science

and 1.0 credit from the following courses:
0.5 Credit Nutrition Food and Fitness
0.5 Credit CHS Nutrition
0.5 Credit Language Enrichment
0.5 Credit Psychology
0.5 Credit Civil Law
0.5 Credit CHS Psychology
0.5 Credit Forensic Science
0.5 Credit Environmental Science

THE ACADEMY FOR WORLD AFFAIRS  
COURSE NO. AC06

The Academy for World Affairs is designed to attract students who strive to apply their academic preparation in math, science, English and social studies to gain multiple perspectives and understandings of global issues and foreign policy. This academy will provide students with challenging curriculum in a variety of fields to enhance their understanding of global policies and affairs.

The Academy is comprised of a community of learners who embrace high academic standards and an appreciation for global issues. Students will engage in rigorous and relevant coursework that provides an opportunity to explore essential questions and research cultural topics while having the opportunity to interact with authentic media and collaborate with others using video conferencing technology. In addition, this academy emphasizes leadership, critical thinking skills and presentation strategies that prepare students to interact at high levels with a global community.

Students must successfully complete the following courses:
4 Levels of a world language (French, German, Latin or Spanish) World Language & Culture Enrichment
Honors or AP World History

and 2.0 credits from the following courses:
1.0 Credit AP US Government and Politics
1.0 Credit AP European History
1.0 Credit AP World Language
1.0 Credit AP Environmental Science
1.0 Credit AP Art History

and 1.0 credit from the following courses:
0.5 Credit PA History & Government
0.5 Credit Sociology
0.5 Credit Language Enrichment
0.5 Credit CHS Argumentation
0.5 Credit World Foods
0.5 Credit Economics

An academy or program of study may support partnerships with employers. An advisory group for the academy includes representatives from the local employer community, academy faculty, and school district administrators. Employer representatives give advice on curriculum, appear as guest speakers in classes, supervise student internships, provide financial or in-kind support,
and serve as mentors for individual students. In addition, all academies and programs of study are articulated to a post-secondary program at a local community college, university, or technical school. Applications for Academy enrollment are in the CRC.

ONLINE ACADEMY @ NORTH HILLS

The Online Academy @ North Hills provides students with online learning opportunities designed to increase their engagement and achievement while completing their studies at home. The Online Academy @ North Hills offers over 70 courses to students in grades 9-12. Online courses are available in English, Social Studies, Math, Science, World Language, Art, Business Education, Family and Consumer Science, Guidance, Health and Physical Fitness.

Students enrolled in the Online Academy @ North Hills have the same resources available to them as traditional students, may attend athletic and social events, compete in athletics, and participate in clubs. Because students are enrolled at North Hills, Online Academy students will receive a North Hills’ diploma and may participate in commencement ceremonies.

Students enrolling in the Online Academy @ North Hills are provided with a computer and held to the same high standards set in the regular classroom. In addition, students are assigned a guidance counselor who will assist students with course selection and career planning. A comprehensive orientation program is designed for all students entering the Online Academy to foster student confidence and success. Students are afforded the opportunity to report to the school to work on assignments while having access to online facilitators. For a complete list of all courses offered to students in grades 9-12 and to secure an application for the Online Academy @ North Hills please visit the CRC located on the first floor of the high school.

FLEXIBLE HYBRID SCHEDULING

Many students have individual needs or circumstances that prohibit them from attending school full time. With Flexible Hybrid Scheduling, students can schedule a portion of the day physically attending classes at North Hills High School while enrolling in the Online Academy @ North Hills. Students electing this method of instruction must provide their own computer and Internet access. Students must continue to be enrolled in a combination of seven credits of coursework. Flexible Hybrid Scheduling permits students to have access to all services provided by the North Hills School District. An application for Flexible Hybrid Scheduling may be obtained in the CRC located on the first floor of the high school.

NCAA REQUIREMENTS

NCAA Division I requires all potential athletes to successfully complete 10 core courses prior to the seventh semester. For most high school student athletes this is by the end of your junior year. Seven of the ten courses must be a combination of English, math or natural physical science that meet the distribution requirements outlined below. These 10 courses become “locked in” at the start of the seventh semester and cannot be retaken for grade improvement.

Not all classes offered at North Hills High School or that are taken to meet your high school graduation requirements may be used as NCAA core courses. To make sure check the North Hills list of NCAA approved courses on the “Resources” page of the NCAA eligibility center website at www.eligibilitycenter.org or you can ask your school counselor for assistance.

Beginning August 1, 2016, it will be possible for a Division 1 student-athlete to still receive athletics aid and the ability to practice with the team if he or she fails to meet the 10 course requirement, but would not be able to compete.

**Division I and II both require 16 core courses.**

**Division I (16 Core Courses)**
- 4 years of English
- 3 years of math (Algebra I or higher)
- 2 years of natural/physical science
- 1 year of additional English, math or natural/physical science
- 2 years of social science
- 4 years of additional courses from any area above, world language or comparative religion/philosophy

**Division II (16 Core Courses)**
- 3 years of English
- 2 years of math (Algebra I or higher)
- 2 years of natural/physical science
- 3 years of additional English, natural/physical science, or math
- 2 years of social science
- 4 years of additional courses from any area above, world language or comparative religion/philosophy

**Minimum Core:**
1. Division I core GPA required to be eligible for competition on or after August 1, 2016 is 2.300 (Division II = 2.00)
2. Meet the completion sliding scale requirement of the GPA and ACT/SAT score
3. Graduate from high school
Core Grade Point Average
Be sure to look at the North Hills list of NCAA Courses on the NCAA Eligibility Center’s website www.eligibilitycenter.org. Only courses that appear on your school’s List of NCAA Courses will be used in the calculation of the core GPA for NCAA eligibility purposes. Use the list as a guide. Your GPA at North Hills includes additional electives and core courses and is not the same as the GPA used to determine your eligibility for the NCAA.

To determine your core course GPA, divide your total quality points by the total of credits earned. This number reflects your GPA (grade point average). To determine your quality points earned for each class, multiply your points earned for a class by the amount of credits earned. A—4 points, B—3 points, C—2 points, D—1 point

When you register for the SAT or ACT, use the NCAA eligibility center code of 9999 to ensure all SAT and ACT scores are reported directly to the NCAA eligibility center from the testing agency. Test scores that appear on transcripts will not be used.

If you are interested in competing at the collegiate level, please sign up for course number NCAA. This course does not formally meet and carries no credit. Signing up for this course in no way guarantees you will be eligible to compete at the collegiate level, however, this course will be used to share information with you and your parents. Signing up for this course will allow high school administrators, guidance counselors and coaching staff to guide you through the process of being cleared through the NCAA.

OVERVIEW OF COURSES BY DEPARTMENT
In order to assist students and parents in their selection of courses at appropriate levels, the following “snapshots” of each department have been created. Course titles, numbers, categories, prerequisites, and grade levels are displayed by department. For more detailed information about each course, refer to the appropriate department on the pages following.

### ART DEPARTMENT COURSES

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credit</th>
<th>Grade Level</th>
<th>Prerequisites &amp; Recommended Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>6175</td>
<td>Filmmaking 1</td>
<td>0.5</td>
<td>9,10,11,12</td>
<td></td>
</tr>
<tr>
<td>6180</td>
<td>Filmmaking 2</td>
<td>0.5</td>
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<td>Filmmaking 1</td>
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<tr>
<td>6185</td>
<td>Filmmaking 3</td>
<td>0.5</td>
<td>10,11,12</td>
<td>Filmmaking 2</td>
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<td>6190</td>
<td>Filmmaking 4</td>
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<td>Filmmaking 3</td>
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<tr>
<td>6145</td>
<td>Digital Art</td>
<td>0.5</td>
<td>9,10,11,12</td>
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<tr>
<td>6150</td>
<td>Photography 1</td>
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<td>6155</td>
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<tr>
<td>6120</td>
<td>Pottery 1</td>
<td>0.5</td>
<td>10,11,12</td>
<td></td>
</tr>
<tr>
<td>61C1</td>
<td>CHS Pottery</td>
<td>0.5</td>
<td>11,12</td>
<td>Pottery 1</td>
</tr>
<tr>
<td>6125</td>
<td>Pottery 2</td>
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<td>10,11,12</td>
<td>Pottery 1</td>
</tr>
<tr>
<td>6105</td>
<td>Studio Art 1</td>
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<td>9,10,11,12</td>
<td></td>
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<tr>
<td>6110</td>
<td>Studio Art 2</td>
<td>0.5</td>
<td>9,10,11,12</td>
<td>Studio Art 1</td>
</tr>
<tr>
<td>6130</td>
<td>Sculpture 1</td>
<td>0.5</td>
<td>9,10,11,12</td>
<td>Pottery 1</td>
</tr>
<tr>
<td>6135</td>
<td>Sculpture 2</td>
<td>0.5</td>
<td>9,10,11,12</td>
<td>Sculpture 1</td>
</tr>
<tr>
<td>61A2</td>
<td>AP Studio Art – Pottery/3D</td>
<td>1.0</td>
<td>11,12</td>
<td>Pottery 1 and Pottery 2 or CHS Pottery or Sculpture 2</td>
</tr>
<tr>
<td>61A1</td>
<td>AP Studio Art – Drawing</td>
<td>1.0</td>
<td>10,11,12</td>
<td>Studio Art 1 and Studio Art 2</td>
</tr>
<tr>
<td>61A3</td>
<td>AP Studio Art – 2D Photography</td>
<td>1.0</td>
<td>10,11,12</td>
<td>Studio Art 1, Photography 1, Photography 2, Digital Art</td>
</tr>
<tr>
<td>61A4</td>
<td>AP Art History</td>
<td>1.0</td>
<td>11,12</td>
<td>B or better in any Honors/CHS course</td>
</tr>
<tr>
<td>1725</td>
<td>Television Production 1</td>
<td>0.5</td>
<td>9,10,11,12</td>
<td></td>
</tr>
<tr>
<td>1730</td>
<td>Television Production 2</td>
<td>0.5</td>
<td>9,10,11,12</td>
<td>Television Production 1</td>
</tr>
<tr>
<td>1735</td>
<td>Television Production 3</td>
<td>0.5</td>
<td>10,11,12</td>
<td>Television Production 2</td>
</tr>
<tr>
<td>1740</td>
<td>Television Production 4</td>
<td>0.5</td>
<td>10,11,12</td>
<td>Television Production 3</td>
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</table>
### BUSINESS & COMPUTER INFORMATION TECHNOLOGY COURSES

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credit</th>
<th>Grade Level</th>
<th>Prerequisites &amp; Recommended Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>6210</td>
<td>Accounting 1</td>
<td>1.0</td>
<td>9,10,11,12</td>
<td></td>
</tr>
<tr>
<td>62C1</td>
<td>CHS Accounting 2</td>
<td>1.0</td>
<td>10,11,12</td>
<td>Accounting 1</td>
</tr>
<tr>
<td>6220</td>
<td>Business Ownership</td>
<td>0.5</td>
<td>9,10,11,12</td>
<td></td>
</tr>
<tr>
<td>6245</td>
<td>Career &amp; Personal Planning</td>
<td>0.5</td>
<td>9,10,11,12</td>
<td></td>
</tr>
<tr>
<td>62C2</td>
<td>CHS Microsoft Applications</td>
<td>0.5</td>
<td>9,10,11,12</td>
<td></td>
</tr>
<tr>
<td>6205</td>
<td>Personal Finance</td>
<td>0.5</td>
<td>9,10,11,12</td>
<td></td>
</tr>
<tr>
<td>6225</td>
<td>Sports &amp; Entertainment Marketing</td>
<td>0.5</td>
<td>9,10,11,12</td>
<td></td>
</tr>
<tr>
<td>6230</td>
<td>International Business &amp; Ethics</td>
<td>0.5</td>
<td>9,10,11,12</td>
<td></td>
</tr>
<tr>
<td>6305</td>
<td>Practical Skills for Life</td>
<td>0.5</td>
<td>11,12</td>
<td></td>
</tr>
<tr>
<td>6676</td>
<td>Game Production and Marketing</td>
<td>1.0</td>
<td>11, 12</td>
<td>Completed two courses from Entertainment Technology</td>
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</tbody>
</table>

### ENGLISH DEPARTMENT COURSES

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credit</th>
<th>Grade Level</th>
<th>Prerequisites &amp; Recommended Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>1110</td>
<td>English 9</td>
<td>1.0</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>11P1</td>
<td>Pre-AP English 9</td>
<td>1.0</td>
<td>9</td>
<td>A grade of &quot;B+&quot; or better in grade 7; a grade of &quot;A-&quot; or better in 8th grade. Grade Level: 9</td>
</tr>
<tr>
<td>1210</td>
<td>English 10</td>
<td>1.0</td>
<td>10</td>
<td>English 9</td>
</tr>
<tr>
<td>12P1</td>
<td>Pre-AP English 10</td>
<td>1.0</td>
<td>10</td>
<td>Average of B or better in Pre-AP English 9 or average of an A in English 9 with teacher recommendation</td>
</tr>
<tr>
<td>1310</td>
<td>American Literature &amp; Composition</td>
<td>1.0</td>
<td>11</td>
<td>English 10</td>
</tr>
<tr>
<td>13P1</td>
<td>Honors American Lit. &amp; Comp.</td>
<td>1.0</td>
<td>11</td>
<td>Pre-AP English 10 with B- or higher or English 10 with A- or higher with teacher recommendation.</td>
</tr>
<tr>
<td>13A1</td>
<td>AP English Language &amp; Composition</td>
<td>1.0</td>
<td>11</td>
<td>Pre-AP English 10 with B or higher and teacher recommendation.</td>
</tr>
<tr>
<td>14A1</td>
<td>AP English Literature &amp; Composition</td>
<td>1.0</td>
<td>12</td>
<td>AP English Language &amp; Composition or grade of A or higher in Honors American Lit. &amp; Comp. &amp; teacher recommendation.</td>
</tr>
</tbody>
</table>

**12th Grade Courses for those not taking AP English Lit & Comp or English 12. Must choose 2 courses below.**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credit</th>
<th>Grade Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>1420</td>
<td>Adventure &amp; Quest</td>
<td>0.5</td>
<td>12</td>
</tr>
<tr>
<td>1425</td>
<td>Apocalyptic Literature</td>
<td>0.5</td>
<td>12</td>
</tr>
<tr>
<td>1430</td>
<td>Female Perspectives</td>
<td>0.5</td>
<td>12</td>
</tr>
<tr>
<td>1435</td>
<td>Questioning the Self</td>
<td>0.5</td>
<td>12</td>
</tr>
<tr>
<td>1445</td>
<td>Social Class Warfare</td>
<td>0.5</td>
<td>12</td>
</tr>
</tbody>
</table>

**English Electives: semester courses that may be taken in addition to required courses above.**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credit</th>
<th>Grade Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>1620</td>
<td>Conventions of Writing</td>
<td>0.5</td>
<td>9,10,11</td>
</tr>
<tr>
<td>1615</td>
<td>Creative Writing</td>
<td>0.5</td>
<td>9,10,11,12</td>
</tr>
<tr>
<td>1525</td>
<td>Speech</td>
<td>0.5</td>
<td>9,10, 11, 12</td>
</tr>
<tr>
<td>15C1</td>
<td>CHS Argumentation</td>
<td>0.5</td>
<td>11,12</td>
</tr>
<tr>
<td>1605</td>
<td>Journalism 1</td>
<td>0.5</td>
<td>10,11,12</td>
</tr>
<tr>
<td>1610</td>
<td>Journalism 2</td>
<td>0.5</td>
<td>10,11,12</td>
</tr>
<tr>
<td>Course #</td>
<td>Course Title</td>
<td>Credit</td>
<td>Grade Level</td>
</tr>
<tr>
<td>----------</td>
<td>----------------------------</td>
<td>--------</td>
<td>-------------</td>
</tr>
<tr>
<td>1613</td>
<td>Journalism 3</td>
<td>0.5</td>
<td>11,12</td>
</tr>
<tr>
<td>1615</td>
<td>Journalism 4</td>
<td>0.5</td>
<td>11,12</td>
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<tr>
<td>1625</td>
<td>Yearbook 1</td>
<td>0.5</td>
<td>9,10,11,12</td>
</tr>
<tr>
<td>1626</td>
<td>Yearbook 2</td>
<td>0.5</td>
<td>10,11,12</td>
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<tr>
<td>1627</td>
<td>Yearbook 3</td>
<td>0.5</td>
<td>11,12</td>
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<tr>
<td>1628</td>
<td>Yearbook 4</td>
<td>0.5</td>
<td>12</td>
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<tr>
<td>1515</td>
<td>Language Enrichment</td>
<td>0.5</td>
<td>10,11,12</td>
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<tr>
<td>1520</td>
<td>Leadership</td>
<td>0.5</td>
<td>9,10,11,12</td>
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<tr>
<td>1510</td>
<td>SAT and ACT Prep</td>
<td>0.5</td>
<td>11,12</td>
</tr>
<tr>
<td>1705</td>
<td>Introduction to Theatre</td>
<td>0.5</td>
<td>9,10,11,12</td>
</tr>
<tr>
<td>64C1</td>
<td>CHS Media &amp; Communication</td>
<td>1.0</td>
<td>11,12</td>
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<tr>
<td>1717</td>
<td>Screenwriting</td>
<td>0.5</td>
<td>10,11,12</td>
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<tr>
<td>1751</td>
<td>Acting I</td>
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<td>1752</td>
<td>Acting II</td>
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<tr>
<td>1753</td>
<td>Acting III</td>
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<tr>
<td>1754</td>
<td>Acting IV</td>
<td>0.5</td>
<td>11,12</td>
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<tr>
<td>1722</td>
<td>Voice and Diction</td>
<td>0.5</td>
<td>10,11,12</td>
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**FAMILY & CONSUMER SCIENCE COURSES**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credit</th>
<th>Grade Level</th>
<th>Prerequisites &amp; Recommended Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>6370</td>
<td>Nutrition, Food &amp; Fitness</td>
<td>1.0</td>
<td>9,10,11,12</td>
<td>Automatically enrolled in a PE class</td>
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<tr>
<td>63C1</td>
<td>CHS Nutrition</td>
<td>0.5</td>
<td>10,11,12</td>
<td>Biology</td>
</tr>
<tr>
<td>6320</td>
<td>Teen Transitions</td>
<td>0.5</td>
<td>9,10,11</td>
<td></td>
</tr>
<tr>
<td>6345</td>
<td>Today's Foods</td>
<td>0.5</td>
<td>9,10,11,12</td>
<td></td>
</tr>
<tr>
<td>6355</td>
<td>World Cuisines and Cultures</td>
<td>0.5</td>
<td>9,10,11,12</td>
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<tr>
<td>6340</td>
<td>Gourmet Foods</td>
<td>0.5</td>
<td>11,12</td>
<td>Today's Foods or World Foods</td>
</tr>
<tr>
<td>6312</td>
<td>Fashion &amp; Sewing</td>
<td>0.5</td>
<td>9,10,11,12</td>
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</tr>
<tr>
<td>6310</td>
<td>Creative Sewing</td>
<td>0.5</td>
<td>9,10,11,12</td>
<td>Fashion &amp; Sewing</td>
</tr>
<tr>
<td>6315</td>
<td>Interior Design</td>
<td>0.5</td>
<td>9,10,11,12</td>
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**HEALTH & PHYSICAL EDUCATION COURSES**

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<tr>
<th>Course #</th>
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<th>Prerequisites &amp; Recommended Courses</th>
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<tr>
<td>6505</td>
<td>Health</td>
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<td>9,10</td>
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<tr>
<td>6510</td>
<td>Contemporary Issues of Sport</td>
<td>0.5</td>
<td>11,12</td>
<td>Health</td>
</tr>
<tr>
<td>6505</td>
<td>Practical Skills for Life</td>
<td>0.5</td>
<td>11,12</td>
<td></td>
</tr>
<tr>
<td>6370</td>
<td>Nutrition, Food &amp; Fitness</td>
<td>1.0</td>
<td>9,10,11,12</td>
<td></td>
</tr>
<tr>
<td>6525</td>
<td>Fitness and Sports</td>
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<td>9,10,11,12</td>
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</tr>
<tr>
<td>6530</td>
<td>Personal Fitness</td>
<td>0.5</td>
<td>9,10,11,12</td>
<td></td>
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<tr>
<td>6540</td>
<td>Creative Movement</td>
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**MATH DEPARTMENT COURSES**

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<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credit</th>
<th>Grade Level</th>
<th>Prerequisites &amp; Recommended Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>3110</td>
<td>Algebra 1</td>
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<td>9</td>
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</tr>
<tr>
<td>3210</td>
<td>Geometry</td>
<td>1.0</td>
<td>9,10,11</td>
<td>Algebra 1</td>
</tr>
<tr>
<td>32P1</td>
<td>Honors Geometry</td>
<td>1.0</td>
<td>9,10</td>
<td>Algebra 1 with a B+ or higher</td>
</tr>
<tr>
<td>Course #</td>
<td>Course Title</td>
<td>Credit</td>
<td>Grade Level</td>
<td>Prerequisites &amp; Recommended Courses</td>
</tr>
<tr>
<td>----------</td>
<td>------------------------------------------------</td>
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<td>-------------</td>
<td>--------------------------------------------------------------------------</td>
</tr>
<tr>
<td>3310</td>
<td>Algebra 2</td>
<td>1.0</td>
<td>9,10,11</td>
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</tr>
<tr>
<td>33P1</td>
<td>Honors Algebra 2</td>
<td>1.0</td>
<td>9,10,11</td>
<td>Honors Geometry with B or higher</td>
</tr>
<tr>
<td>3405</td>
<td>College Algebra</td>
<td>0.5</td>
<td>11,12</td>
<td>Algebra 2</td>
</tr>
<tr>
<td>3410</td>
<td>Trigonometry</td>
<td>0.5</td>
<td>11,12</td>
<td>Algebra 2</td>
</tr>
<tr>
<td>3415</td>
<td>Trigonometry/Pre-Calculus</td>
<td>1.0</td>
<td>11,12</td>
<td>Algebra 2 with a B or higher</td>
</tr>
<tr>
<td>34P1</td>
<td>Honors Trig/Pre-Calculus</td>
<td>1.0</td>
<td>11,12</td>
<td>Honors Algebra 2 with a B or higher</td>
</tr>
<tr>
<td>35A1</td>
<td>AP Calculus (AB)</td>
<td>1.0</td>
<td>12</td>
<td>Honors Trig/Pre-Calc with B or higher</td>
</tr>
<tr>
<td>35A2</td>
<td>AP Calculus (BC)</td>
<td>1.0</td>
<td>12</td>
<td>AP Calculus (AB)</td>
</tr>
<tr>
<td>35C1</td>
<td>CHS Business Calculus</td>
<td>1.0</td>
<td>11,12</td>
<td>Honors Trig/Pre-Calc or Trig/Pre-Calc with a C or higher</td>
</tr>
<tr>
<td>35C2</td>
<td>CHS Probability &amp; Statistics</td>
<td>0.5</td>
<td>10,11,12</td>
<td>Algebra 2 with a B or higher or Honors Geometry</td>
</tr>
<tr>
<td>35A3</td>
<td>AP Statistics</td>
<td>1.0</td>
<td>10,11,12</td>
<td>Honors Algebra 2 with a B or higher, CHS Prob &amp; Stats with a C or higher, Honors Trig/Pre-Calc</td>
</tr>
<tr>
<td>3605</td>
<td>Computer Science</td>
<td>0.5</td>
<td>10,11,12</td>
<td>Geometry</td>
</tr>
<tr>
<td>36A1</td>
<td>AP Computer Science</td>
<td>1.0</td>
<td>11,12</td>
<td>Computer Science with a C or higher</td>
</tr>
<tr>
<td>1510</td>
<td>SAT and ACT Prep</td>
<td>0.5</td>
<td>11,12</td>
<td>See English Department grid</td>
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**MUSIC DEPARTMENT COURSES**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credit</th>
<th>Grade Level</th>
<th>Prerequisites &amp; Recommended Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>6405</td>
<td>Symphonic Choir (full year)</td>
<td>1.0</td>
<td>9,10,11,12</td>
<td>9-12 boys &amp; 11-12 girls only</td>
</tr>
<tr>
<td>6410</td>
<td>Symphonic Choir (semester)</td>
<td>0.5</td>
<td>9,10,11,12</td>
<td></td>
</tr>
<tr>
<td>6415</td>
<td>Women's Choir (full year)</td>
<td>1.0</td>
<td>9,10,11,12</td>
<td>9-10 girls &amp; any 11-12 girls who choose</td>
</tr>
<tr>
<td>6420</td>
<td>Women's Choir (semester)</td>
<td>0.5</td>
<td>9,10 (11,12)</td>
<td></td>
</tr>
<tr>
<td>6425</td>
<td>Concert Band</td>
<td>1.0</td>
<td>9,10,11,12</td>
<td>Placement by audition</td>
</tr>
<tr>
<td>6435</td>
<td>Symphonic Band</td>
<td>1.0</td>
<td>9,10,11,12</td>
<td>Placement by audition/ teacher recommendation</td>
</tr>
<tr>
<td>6430</td>
<td>Wind Symphony</td>
<td>1.0</td>
<td>9,10,11,12</td>
<td>Placement by audition/ teacher recommendation</td>
</tr>
<tr>
<td>6437</td>
<td>Wind Ensemble</td>
<td>1.0</td>
<td>9,10,11,12</td>
<td>Placement by audition/ teacher recommendation</td>
</tr>
<tr>
<td>6440</td>
<td>Jazz Band</td>
<td>1.0</td>
<td>9,10,11,12</td>
<td>Placement by audition/ teacher recommendation</td>
</tr>
<tr>
<td>6445</td>
<td>Orchestra</td>
<td>1.0</td>
<td>9,10,11,12</td>
<td>Placement by audition/ teacher recommendation</td>
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<tr>
<td>6459</td>
<td>Guitar Ensemble (semester)</td>
<td>0.5</td>
<td>9,10,11,12</td>
<td></td>
</tr>
<tr>
<td>6461</td>
<td>Guitar Ensemble (full year)</td>
<td>1.0</td>
<td>9,10,11,12</td>
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</tr>
<tr>
<td>6465</td>
<td>Music Theory</td>
<td>0.5</td>
<td>9,10,11,12</td>
<td></td>
</tr>
<tr>
<td>6470</td>
<td>Music Technology</td>
<td>0.5</td>
<td>10,11,12</td>
<td>Music Theory or teacher recommendation</td>
</tr>
<tr>
<td>64A1</td>
<td>AP Music Theory</td>
<td>1.0</td>
<td>10,11,12</td>
<td>Music Theory or teacher recommendation</td>
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**SCIENCE DEPARTMENT COURSES**

<table>
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<th>Course #</th>
<th>Course Title</th>
<th>Credit</th>
<th>Grade Level</th>
<th>Prerequisites &amp; Recommended Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>4110</td>
<td>Biology</td>
<td>1.0</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>4111</td>
<td>Principles of Biomedical Science</td>
<td>1.0</td>
<td>9, 10, 11, 12</td>
<td></td>
</tr>
<tr>
<td>41P1</td>
<td>Honors Biology</td>
<td>1.0</td>
<td>9</td>
<td>A in 8th grade Science or a B+ with teacher recommendation</td>
</tr>
<tr>
<td>41A1</td>
<td>AP Biology</td>
<td>1.0</td>
<td>11,12</td>
<td>Honors Biology &amp; Honors/CHS Chemistry or an A in Biology/Chemistry</td>
</tr>
<tr>
<td>42T1</td>
<td>Conceptual Chemistry</td>
<td>1.0</td>
<td>10,11,12</td>
<td>Biology or Honors Biology &amp; concurrently enrolled in or completion of Algebra 1</td>
</tr>
<tr>
<td>Course #</td>
<td>Course Title</td>
<td>Credit</td>
<td>Grade Level</td>
<td>Prerequisites &amp; Recommended Courses</td>
</tr>
<tr>
<td>---------</td>
<td>--------------------------------------</td>
<td>--------</td>
<td>-------------</td>
<td>-------------------------------------------------------------------------</td>
</tr>
<tr>
<td>4210</td>
<td>Chemistry</td>
<td>1.0</td>
<td>10, 11, 12</td>
<td>Biology or Honors Biology &amp; C or better in Algebra 1</td>
</tr>
<tr>
<td>42P1</td>
<td>Honors Chemistry</td>
<td>1.0</td>
<td>10, 11, 12</td>
<td>Concurrently enrolled in Honors Algebra 2 or higher honors level math course.</td>
</tr>
<tr>
<td>42C1</td>
<td>CHS Chemistry (College Connections)</td>
<td>1.0</td>
<td>10</td>
<td>Honors Biology &amp; concurrently enrolled in AP World History &amp; Honors Algebra 2 or higher.</td>
</tr>
<tr>
<td>42C2</td>
<td>CHS Chemistry 2</td>
<td>1.0</td>
<td>11, 12</td>
<td>Completion of Chemistry with a C or better and concurrently enrolled in Honors Algebra 2 or higher Honors level math course. (Students who have taken Honors Chemistry or Connections are not eligible.)</td>
</tr>
<tr>
<td>42A1</td>
<td>AP Chemistry</td>
<td>1.0</td>
<td>11, 12</td>
<td>Honors or CHS Chemistry with a C or higher and concurrently enrolled in or completion of AP Physics with a C or higher; or completion of Honors Physics with a C or higher.</td>
</tr>
<tr>
<td>42A2</td>
<td>AP Physics 2</td>
<td>1.0</td>
<td>11, 12</td>
<td>Teacher Recommendation</td>
</tr>
<tr>
<td>42A3</td>
<td>AP Physics C</td>
<td>1.0</td>
<td>12</td>
<td>Teacher Recommendation</td>
</tr>
<tr>
<td>4305</td>
<td>Conceptual Physics</td>
<td>0.5</td>
<td>11, 12</td>
<td>Successfully completion of Chemistry and concurrently in Algebra 1 or higher</td>
</tr>
<tr>
<td>4310</td>
<td>Physics</td>
<td>1.0</td>
<td>11, 12</td>
<td>Chemistry or higher Concurrently enrolled in Algebra 2 or higher Mathematics.</td>
</tr>
<tr>
<td>43P1</td>
<td>Honors Physics</td>
<td>1.0</td>
<td>11, 12</td>
<td>Chemistry with B or Higher, or concurrently enrolled in Honors Chemistry, CHS Chemistry or AP Chemistry. Concurrently enrolled in Trigonometry or higher Mathematics.</td>
</tr>
<tr>
<td>43A1</td>
<td>AP Physics 1</td>
<td>1.0</td>
<td>10, 11, 12</td>
<td>Teacher Recommendation</td>
</tr>
<tr>
<td>43A2</td>
<td>AP Physics 2</td>
<td>1.0</td>
<td>11, 12</td>
<td>Teacher Recommendation</td>
</tr>
<tr>
<td>43A3</td>
<td>AP Physics C</td>
<td>1.0</td>
<td>12</td>
<td>Teacher Recommendation</td>
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<tr>
<td>45C1</td>
<td>CHS Anatomy &amp; Physiology 1</td>
<td>1.0</td>
<td>11, 12</td>
<td>Biology, Chemistry</td>
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<tr>
<td>45C2</td>
<td>CHS Anatomy &amp; Physiology 2</td>
<td>1.0</td>
<td>11, 12</td>
<td>CHS Anatomy &amp; Physiology 1</td>
</tr>
<tr>
<td>4405</td>
<td>Environmental Science</td>
<td>0.5</td>
<td>10, 11, 12</td>
<td>Biology</td>
</tr>
<tr>
<td>44P1</td>
<td>Honors Environmental Science</td>
<td>0.5</td>
<td>10, 11, 12</td>
<td>Honors Biology or a “B” or higher in Biology and Chemistry</td>
</tr>
<tr>
<td>44A1</td>
<td>AP Environmental Science</td>
<td>1.0</td>
<td>11, 12</td>
<td>Honors Biology &amp; Honors/CHS Chemistry or “A” in Biology &amp; Chemistry. Honors Environmental Science preferred but not required.</td>
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<tr>
<td>4610</td>
<td>Astronomy</td>
<td>0.5</td>
<td>9, 10, 11, 12</td>
<td>Biology &amp; Chemistry or Conceptual Chemistry</td>
</tr>
<tr>
<td>4615</td>
<td>Forensic Science</td>
<td>0.5</td>
<td>11, 12</td>
<td>Biology &amp; Chemistry or Conceptual Chemistry</td>
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**SOCIAL STUDIES COURSES**

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<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credit</th>
<th>Grade Level</th>
<th>Prerequisites &amp; Recommended Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>2110</td>
<td>American Studies</td>
<td>1.0</td>
<td>9</td>
<td></td>
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<tr>
<td>21P1</td>
<td>Honors American Studies</td>
<td>1.0</td>
<td>9</td>
<td>B- or higher in 8th grade Social Studies</td>
</tr>
<tr>
<td>2210</td>
<td>World History</td>
<td>1.0</td>
<td>10</td>
<td>American Studies</td>
</tr>
<tr>
<td>22P1</td>
<td>Honors World History</td>
<td>1.0</td>
<td>10</td>
<td>Honors American Studies with B- or higher</td>
</tr>
<tr>
<td>22A1</td>
<td>AP World History (Connections)</td>
<td>1.0</td>
<td>10</td>
<td>Honors American Studies with a B or higher &amp; concurrently enrolled in CHS Chemistry</td>
</tr>
<tr>
<td>2310</td>
<td>American Government</td>
<td>1.0</td>
<td>11</td>
<td>World History</td>
</tr>
<tr>
<td>23P1</td>
<td>Honors American Government</td>
<td>1.0</td>
<td>11</td>
<td>Honors World History with B or higher or AP World History</td>
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Social Studies Electives:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Course</th>
<th>Credit</th>
<th>Grade Level</th>
<th>Prerequisites &amp; Recommended Courses</th>
</tr>
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<tbody>
<tr>
<td>11th</td>
<td>AP European History</td>
<td>1.0</td>
<td>11,12</td>
<td>Senior Prerequisite: Any 11th grade AP Social Studies course with a C- or higher or Honors American Government with a B- or higher</td>
</tr>
<tr>
<td></td>
<td>AP US Government &amp; Politics</td>
<td>1.0</td>
<td>11,12</td>
<td>Junior Prerequisite: AP World History with a C- or higher or Honors World History with a B or higher</td>
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<tr>
<td></td>
<td>AP US History</td>
<td>1.0</td>
<td>11,12</td>
<td></td>
</tr>
<tr>
<td>12th</td>
<td>Economics</td>
<td>0.5</td>
<td>11,12</td>
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<tr>
<td></td>
<td>Law &amp; Justice</td>
<td>0.5</td>
<td>11,12</td>
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<tr>
<td></td>
<td>Law &amp; Justice – Civil Law</td>
<td>0.5</td>
<td>11,12</td>
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<tr>
<td></td>
<td>PA History &amp; Government</td>
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<td>11,12</td>
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<tr>
<td></td>
<td>Psychology</td>
<td>0.5</td>
<td>11,12</td>
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<tr>
<td></td>
<td>CHS Psychology</td>
<td>0.5</td>
<td>11,12</td>
<td>Psychology</td>
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<td>Sociology</td>
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**TECHNOLOGY EDUCATION COURSES**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credit</th>
<th>Grade Level</th>
<th>Prerequisites &amp; Recommended Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>6695</td>
<td>Electricity &amp; Electronics</td>
<td>0.5</td>
<td>9,10,11,12</td>
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<tr>
<td>6635</td>
<td>Home Maintenance</td>
<td>0.5</td>
<td>9,10,11,12</td>
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</tr>
<tr>
<td>6305</td>
<td>Practical Skills for Life</td>
<td>0.5</td>
<td>9,10,11,12</td>
<td>See Course Description under Business</td>
</tr>
<tr>
<td>6640</td>
<td>Robotics &amp; Engineering</td>
<td>0.5</td>
<td>9,10,11,12</td>
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<tr>
<td>6690</td>
<td>Transportation Design</td>
<td>0.5</td>
<td>9,10,11,12</td>
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<tr>
<td>6650</td>
<td>Engineering Drawing &amp; Design 1</td>
<td>1.0</td>
<td>9,10,11,12</td>
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</tr>
<tr>
<td>6315</td>
<td>Interior Design</td>
<td>0.5</td>
<td>9,10,11,12</td>
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<tr>
<td>6655</td>
<td>Engineering Drawing &amp; Design 2</td>
<td>1.0</td>
<td>10,11,12</td>
<td>Engineering Drawing &amp; Design 1</td>
</tr>
<tr>
<td>6651</td>
<td>Architectural Design</td>
<td>0.5</td>
<td>10,11,12</td>
<td>Engineering Drawing &amp; Design 1 or Interior Design</td>
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<tr>
<td>6698</td>
<td>Product Design</td>
<td>0.5</td>
<td>11, 12</td>
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<tr>
<td>66C2</td>
<td>The Art of Making: Hands on System Design and Engineering</td>
<td>1.0</td>
<td>10, 11, 12</td>
<td></td>
</tr>
<tr>
<td>6672</td>
<td>Evolution of Games</td>
<td>0.5</td>
<td>9,10,11,12</td>
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</tr>
<tr>
<td>6674</td>
<td>Mobile Game Design</td>
<td>0.5</td>
<td>9,10,11,12</td>
<td></td>
</tr>
<tr>
<td>6673</td>
<td>Game Design</td>
<td>0.5</td>
<td>10,11,12</td>
<td>Recommendation: Evolution of Games</td>
</tr>
<tr>
<td>6645</td>
<td>3D Modeling &amp; Animation</td>
<td>0.5</td>
<td>9,10,11,12</td>
<td></td>
</tr>
<tr>
<td>6670</td>
<td>3D Game Programming</td>
<td>0.5</td>
<td>10,11,12</td>
<td>3D Modeling &amp; Animation Recommended</td>
</tr>
<tr>
<td>66C3</td>
<td>CHS 2D Game Programming</td>
<td>1.0</td>
<td>11,12</td>
<td>Mobile Game Design</td>
</tr>
<tr>
<td>6676</td>
<td>Game Production and Marketing</td>
<td>1.0</td>
<td>11, 12</td>
<td>Completed two courses from Entertainment Technology</td>
</tr>
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</table>

Material Fabrication Technologies Courses:
The following courses are double blocked
<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credit</th>
<th>Grade Level</th>
<th>Prerequisites &amp; Recommended Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>6605</td>
<td>Introduction to Metal Technologies</td>
<td>1.0</td>
<td>9,10,11,12</td>
<td>Intro to Metal Technologies</td>
</tr>
<tr>
<td>6610</td>
<td>Advanced Metal Technologies</td>
<td>1.0</td>
<td>9,10,11,12</td>
<td>Intro to Metal Technologies</td>
</tr>
<tr>
<td>6615</td>
<td>Material Engineering</td>
<td>1.0</td>
<td>10,11,12</td>
<td>Advanced Metal Engineering</td>
</tr>
<tr>
<td>66C1</td>
<td>CHS Welding</td>
<td>1.0</td>
<td>10,11,12</td>
<td>Intro to Metal Advanced Metal Engineering</td>
</tr>
<tr>
<td>6625</td>
<td>Introduction to Wood Technologies</td>
<td>1.0</td>
<td>9,10,11,12</td>
<td>Intro to Wood Technologies</td>
</tr>
<tr>
<td>6630</td>
<td>Advanced Wood Technologies</td>
<td>1.0</td>
<td>10,11,12</td>
<td>Advanced Wood Technologies</td>
</tr>
<tr>
<td></td>
<td></td>
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<tr>
<td>6650</td>
<td>Graphic Design</td>
<td>1.0</td>
<td>10,11,12</td>
<td>Course is double blocked</td>
</tr>
<tr>
<td>6648</td>
<td>Web &amp; Mobile App Design</td>
<td>1.0</td>
<td>9,10,11,12</td>
<td>Full year course</td>
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**WORLD LANGUAGE COURSES**

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<thead>
<tr>
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<th>Course Title</th>
<th>Credit</th>
<th>Grade Level</th>
<th>Prerequisites &amp; Recommended Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>5550</td>
<td>American Sign Language 1A</td>
<td>0.5</td>
<td>9,10,11,12</td>
<td>American Sign Language 1A</td>
</tr>
<tr>
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Art Department

Art classes are offered as electives and will integrate the study of relevant art history and appreciation materials within the framework of the specific media studied. All art classes are open to underclassmen with the exception of pottery, which is reserved for 10th, 11th and 12th grade students. Art students' work is showcased annually at the District Arts Alive Festival held each spring.

**FILMMAKING 1**  6175  0.5 CREDIT  
This course is designed to develop proficiency in the standard procedures of digital filmmaking and the use of equipment. Students participate in shooting a variety of short films, editing and building soundtracks. Basic aspects of composition and editing are covered, including the use of equipment, and digital editing software. Student projects are viewed and critiqued in class. All equipment is provided.  
*Grade Level: 9-12*

**FILMMAKING 2**  6180  0.5 CREDIT  
This course continues to develop proficiency in the standard procedures of digital filmmaking and the use of equipment. Students participate in shooting a variety of short films, editing and building soundtracks. Basic aspects of cinematography, lighting, sound and editing are covered, as well as composition and camera movement. Student projects are viewed and critiqued in class. All equipment is provided.  
*Prerequisite: Filmmaking 1.  
Grade Level: 9-12*

**FILMMAKING 3**  6185  0.5 CREDIT  
In this course, students make films with the instructor's close supervision. Each student writes a treatment and a script for each production. Aspects of cinematography, lighting, sound and editing are further explored, including the use of equipment, and digital editing software. Fully edited short films with edited soundtracks (voice, music, sound effects, etc.) must be completed by the end of the term. Students can begin to explore special effects and computer generated effects in this course. All equipment is provided.  
*Prerequisite: Filmmaking 2.  
Grade Level: 9-12*

**FILMMAKING 4**  6190  0.5 CREDIT  
In this advanced course, students make films with the instructor's approval and close supervision. Each student writes a treatment and a script for each production. Advanced cinematography, lighting, sound and editing are further explored. Students may also further explore special effects development and computer generated imagery in this course. Fully edited short films with edited soundtracks (voice, music, sound effects, etc.) must be completed by the end of the term. All equipment is provided. Student productions will be featured in school, online and will be submitted to various competitions and festivals. The focus is to complete high production value content suitable for distribution to audiences.  
*Prerequisite: Filmmaking 3.  
Grade Level: 10, 11, 12*

**DIGITAL ART**  6145  0.5 CREDIT  
This semester course will focus on using a variety of digital resources to create finished works of art. Students will understand the basics of operating digital cameras and producing artwork through photo manipulation. Students will become proficient in using applications such as Adobe Photoshop and Adobe Illustrator in combination with digital drawing tools like WACOM tablets to create original works of art. This class is a great introduction for students interested in the digital arts such as image manipulation, animation and graphic design.  
*Grade Level: 9, 10, 11, 12*

**PHOTOGRAPHY 1**  6150  0.5 CREDIT  
This is a semester course introducing students to the art of Photography. Students will learn the basics of capturing images using both film (darkroom) and digital photography methods. Students will work to develop and improve their composition and technical skills through assignments and in-class discussions. Part of this course will also focus on history, criticism, theory, aesthetics and art techniques as they apply to photography.  
*Grade Level: 9-12*

**PHOTOGRAPHY 2**  6155  0.5 CREDIT  
This is a semester course designed to enrich the learning for students who have successfully completed Photography 1. This course will include advanced black and white printmaking and experimental darkroom techniques as well as advanced digital photography techniques and image manipulation. Part of this course will also focus on history, criticism, theory, aesthetics and art techniques as they apply to photography.  
*Prerequisite: Photography 1.  
Grade Level: 9-12*
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<thead>
<tr>
<th>COURSE</th>
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<tr>
<td>AP STUDIO ART: POTTERY/3D</td>
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POTTERY 1

Pottery 1 will focus on history, criticism, theory, aesthetics, art techniques, design, creation and treatment of clay. The course will cover learning the characteristics and limits of working with hand-built pottery, wheel-thrown pottery, firing, painting, and glazing.

Grade Level: 10, 11, 12

CHS POTTERY

CHS Pottery will enrich a student’s skills on history, criticism, theory, aesthetics, art techniques, design, creation and treatment of clay. Experiences include hand-built and wheel-thrown pottery, kiln loading and firing, glaze formulation, and clay body formulation. Students who enroll in this course are eligible to earn 3 college art credits at Carlow College. Students will pay a nominal course fee and must earn a C or higher to receive the 3 college art credits.

Prerequisite: Pottery 1.
Grade Level: 11 & 12

POTTERY 2

Advanced Pottery will enrich a student’s skills on history, criticism, theory, aesthetics, art techniques, design, creation and treatment of clay with an emphasis placed upon production of pottery. Experiences include hand-built and wheel-thrown pottery, kiln loading and firing, glaze formulation, and clay body formulation.

Prerequisite: Pottery 1.
Grade Level: 11 & 12

STUDIO ART 1

Studio Art 1 is a disciplined-based art course designed to help students develop artistic and technical skills through art production and art appreciation. In this class students will use different media to create a variety of projects in a two-dimensional format while focusing on the elements & principles of art. Projects will include various types of drawings, paintings, printmaking and mixed-media designed to help strengthen creative problem solving skills as well as develop artistic techniques and craftsmanship.

Grade Level: 10, 11 & 12

STUDIO ART 2

This course is designed to enrich the learning for students who have successfully completed Studio Art 1. Studio Art 2 is a more in-depth study and analysis of art in a two-dimensional format. Projects will incorporate drawing, painting, printmaking and mixed-media as students further develop artistic techniques, composition and craftsmanship. This course will also allow students the opportunity for more self-exploration in art through class assignments and independent work.

Prerequisite: Studio Art 1.
Grade Level: 10, 11 & 12

SCULPTURE 1

Sculpture 1 will expand on the student’s experiences from 3D Studio Art through a more in-depth study and analysis of art in the three-dimensional form. The course will encompass art production, art history, art criticism and aesthetics while students demonstrate their understanding of design principles as they relate to depth and space. Students will work both independently and collaboratively as they experiment with a wide variety of materials and techniques in a three-dimensional approach. Emphasis will be placed upon concept investigation, form and art production.

Prerequisite: Pottery 1
Grade Level: 9 – 12

SCULPTURE 2

Sculpture 2 will enrich student development of history, criticism, theory, aesthetics and art techniques using drawing, painting, printmaking, multi-media and an introduction to color computer graphics as the art medium. This course focuses on an individual’s ability to draw through a developmental sequence of drawing exercises. Emphasis will be placed upon composition, style and technique.

Prerequisite: Sculpture 1.
Grade Level: 9 – 12

AP STUDIO ART: POTTERY/3D

The AP Studio Art - Pottery/3D class is designed for students who are seriously interested in the practical experience of art. Evaluations in AP Studio Art are not based on a written exam; instead, students submit portfolios for evaluation at the end of the school year. AP Studio Art sets a national standard for performance in the visual arts that contributes to the significant role the arts play in academic environments. Each year thousands of portfolios are submitted in AP Studio Art are reviewed by college, university and secondary school art instructors using rigorous standards. This AP Studio Art Program consists of 3-D Design and Pottery that corresponds to the most common college foundation courses. AP Pottery/3D courses address three major concerns that are constants in the teaching of art: (1) a sense of quality in a student’s work; (2) the student’s concentration on a particular
visual interest or problem; and (3) the student’s need for breadth of experience in the formal, technical and expressive means of the artist.

**Prerequisite:** Pottery 1 and Pottery 2 or CHS Pottery or Sculpture 2  
**Grade Level:** 11 & 12

### AP STUDIO ART – DRAWING  
**Code:** 61A1  
**Credit:** 1.0

The AP Studio Art portfolios are designed for students who are seriously interested in the practical experience of art. AP Studio Art is not based on a written examination; instead, students submit portfolios for evaluation at the end of the school year. Students will submit a portfolio for review by The College Board and upon successful completion may receive college credit. The Drawing Portfolio is intended to address a very broad interpretation of drawing issues and media. Line quality, light and shade, rendering of form, composition, surface manipulation, the illusion of depth and mark-making are drawing issues that can be addressed through a variety of means, which could include painting, printmaking, mixed media, etc. The Drawing Portfolio includes three components: Quality, Concentration, and Breadth, which requires the student to show a fundamental competence and range of understanding in visual concerns (and methods). The student must demonstrate a depth of investigation and process of discovery through the Concentration section (Section II). In the Breadth section (Section III), the student is asked to demonstrate a serious grounding in visual principles and material techniques. The Quality section (Section I) permits the student to select the works that best exhibit a synthesis of form, technique, and content.

*Prerequisite:* Studio Art 1 and Studio Art 2.  
*Grade Level:* 10 - 12

### AP STUDIO ART – 2D DESIGN  
**Code:** 61A3  
**Credit:** 1.0

The AP Studio Art portfolios are designed for students who are seriously interested in the practical experience of art. AP Studio Art is not based on a written examination; instead, students submit portfolios for evaluation at the end of the school year. Students will submit a portfolio for review by The College Board and upon successful completion may receive college credit. The 2D Design Portfolio is intended to address two-dimensional (2-D) design issues. Design involves purposeful decision making about how to use the elements and principles of art in an integrative way. For this portfolio, students are asked to demonstrate mastery of 2-D design through any two-dimensional medium or process, including, but not limited to, graphic design, digital imaging, photography, collage, fabric design, weaving, fashion design, fashion illustration, painting and printmaking. Video clips, DVDs, CDs and three-dimensional works may not be submitted. However, still images from videos or films are accepted. The portfolio includes three components: Quality, Concentration and Breadth, which requires the student to show a fundamental competence and range of understanding of the principles of design through various visual elements. In the Breadth section (Section III) students explore a variety of concepts and approaches in order to demonstrate their range of abilities and versatility with problem solving, ideation, and techniques. These experiences are also used to develop an approach for their concentration (Section II) in which the student must demonstrate a depth of investigation and process of discovery. The Quality section (Section I) permits the student to select the works that best exhibit mastery of 2-D design.

*Prerequisite:* Studio Art 1, Photography 1, Photography 2, Digital Art  
*Grade Level:* 10 – 12

### AP ART HISTORY  
**Code:** 61A4  
**Credit:** 1.0

AP Art History is designed to provide the same benefits to secondary school students as those provided by an introductory college course in art history. In the course, students will examine major forms of artistic expression from the ancient world to the present and from a variety of cultures, periods and movements (ex. Ancient Rome/Greece, Impressionism, Surrealism.) Students will learn to analyze works of art within their historical context, and to articulate what they see or experience in a meaningful way. The course will emphasize visual analysis, understanding how and why works of art function in context, considering issues such as patronage, gender and the functions and effects of works of art. Students will investigate how imagery has shaped our perceptions and behavior throughout time, providing insight into the past and into our own age and culture. The content of this course is shaped by the College Board requirements and students will take the AP Art History Examination in the spring for college credit.

*Prerequisite:* B or better in any Honors/CHS course  
*Grade Level:* 11 & 12

Note: The Art History course will serve as 0.5 elective credit towards Social Studies graduation requirement.

### TELEVISION PRODUCTION 1  
**Code:** 1725  
**Credit:** 0.5

Join NHTV and experience live studio production, learn to edit like a professional, engage in creative projects that allow you to explore broadcast journalism, camera operation, directing and engineering. The studio is a cooperative learning environment where students work together to learn and create as they engage in interviews, highlight editing and promotional production as well as original content production.

*Grade Level:* 9 - 12
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<td>THEATER PRODUCTION AND SET DESIGN</td>
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**TELEVISION PRODUCTION 2**
This second level production course allows students to further explore multi-media (video, photography, graphics and animation). Students will work in production teams in the studio to develop a variety of programming. We will continue to develop content formats from Television Production 1. Additionally we will begin to create content for our YouTube channels. We will engage in a hands-on studio control room experience and produce live as well as pre-recorded content for NHTV.

Prerequisite: Television Production 1.
Grade Level: 9-12

**TELEVISION PRODUCTION 3**
This course allows students to continue to explore multi-media (video, photography, graphics and animation) and begin working as NHTV staff. Students will work in production teams in the studio to develop a variety of programming. We will be covering many activities at North Hills as well as promoting aspects of NHSD. We will continue to create content for our YouTube channels. We will engage in a hands-on studio control room experience and produce live as well as pre-recorded content for NHTV.

Prerequisite: Television Production 2.
Grade Level: 10, 11, 12

**TELEVISION PRODUCTION 4**
This advanced course continues student development of multi-media production (video, photography, graphics and animation). Emphasis is on planning and producing television programs for NHTV. Students will work independently and in production teams to complete programs promoting attributes of The North Hills School District. Production design will further be emphasized as students create entertaining and informative content. We will produce and distribute highlights from North Hills athletics and activities, conduct interviews, create promotions and commercials and develop unique entertainment programming. Additionally, students will be involved in producing our annual video yearbook, which covers the events of the year and student life.

Prerequisite: Television Production 3.
Grade Level: 10, 11, 12

**SPORTS BROADCASTING**
This course introduces students to theory and hands on application of multi-camera studio production as well as field production. Emphasis is on learning and applying terminology and fundamental principles to planning and producing sports television programs for airing in school, on cable, and on the Internet. Students will gain experience with pre-production including storyboarding and scripting for production. Students will work in production teams in the studio and in the field to complete programs including sports highlights, editorials, interviews, promotional material, and sports reporting daily.

Prerequisite: TV Production 2.
Grade Level: 10, 11, 12

**THEATER PRODUCTION AND SET DESIGN**
Students will learn about the technique and design of set production and assist various crews who build and run the theater shows. This course will create the production for all theater productions. Student will also learn the introductory techniques of lighting and stage sound.

Prerequisite: TV Production 2.
Grade Level: 9, 10, 11, 12
Business & Computer Information Technology

The Business & Computer Information Technology Department offers a variety of courses with the goal of providing realistic and relevant instruction for students seeking business and computer skills to function effectively in our economic system.

The BCIT Department offers courses to students who are considering business as a career, want to learn business and computer skills for personal use, and to those who plan to pursue a business program in college. Computer skills are vital for personal, academic, and professional success. Students can opt to take courses designed to teach specific computer applications or business courses which focus on a business subject and integrate technology.

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<td>Accounting is so much a part of our business lives that it is known as the “language of business.” Accounting I has been designed to serve the needs of all students who are considering a career in business or who would like an introduction to the fundamentals of accounting. Content focuses on the basics of financial analysis for sole proprietorships and corporations. Through integrated software applications, including Microsoft Excel and Automated Accounting, and business simulations, students will develop an understanding of accounting information systems and build a strong foundation in basic business procedures. Students will have an opportunity to explore careers in accounting, and examine real world accounting for such companies as: Best Buy, Tommy Hilfiger, and Toyota.</td>
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| **Prerequisite:** Accounting 1.  
**Grade Level:** 9-12 |

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<td>This course is for students who have acquired an interest in accounting and finance. Advanced concepts of accounting are applied in this course. Topics include: departmentalized accounting, inventory valuation, depreciation, bond accruals, budgetary planning and control, advanced year-end adjustments, and acceptable accounting practices illustrated through case studies of global corporations. Financial statement preparation and analysis will also be a major focus. Computer applications in automated accounting software, Excel, and business simulations will be used to reinforce accounting concepts. Students who enroll in this course and wish to earn three college credits will register with La Roche College and pay a nominal course fee. Enrolled students must earn a C or higher to receive the three college credits. This course is recommended for students who intend to continue their education in: accounting, finance, business administration, management, and/or marketing or who intend to enter the workforce after graduation.</td>
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| **Prerequisite:** Accounting 1.  
**Grade Level:** 10, 11 & 12 |

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<td>Are you a shark? Do you want to be your own boss and make your own schedule some day? With a great business idea and the proper knowledge you can make the American dream a reality! This course focuses on what it takes to become a successful entrepreneur. Students will create a business plan and pitch their business idea to a panel of judges. Top business plans will win prizes including a new iPad mini! Students examine topics in management, marketing, credit policies, e-commerce, business technologies, and legal issues. Transform something you love into a profitable business! By creating a new business venture, students will develop vital management and marketing skills. Personal and practical applications of these skills and knowledge are virtually unlimited as most careers within our economic system relate to the business world. Enter our virtual shark tank; there is no better time than now to learn how to be your own boss!</td>
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| **Prerequisite:** Accounting 1.  
**Grade Level:** 9-12 |

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<td>What do you want to do to earn a living? This course encourages matching a career area to the student rather than the student to a career area using web-based, career and education planning tools. This approach focuses on each student’s needs and guides the student to pursue a career, based on individual talents and passions. The course focuses on academic and career planning and decision-making while emphasizing student self-awareness; goal setting; and the power of positive attitude. Students will also explore the application process for post-secondary education and the workplace; prepare documents such as: resumes, cover letters, and applications; and participate in a mock interview. Students will develop an electronic portfolio showcasing their career and educational research and goals; employment documentation; and personal growth, vision and achievements.</td>
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</table>
| **This course is highly recommended for students enrolled in any of the six academic academies.**  
**Grade Level:** 9-12 |
CHS MICROSOFT APPLICATIONS 62C2 CREDIT 0.5

Computer literacy is an essential skill for today's competitive work force. Students enrolled in this course will learn how to use Microsoft Office 2016 components. Students will demonstrate competency using MS Office through simulated business projects and real-world computer applications in word processing, spreadsheet and database management, and multimedia presentations. Students will also learn file management and to use email and Internet resources effectively. This course caters to students' varying ability levels and allows students to progress through the course based on their demonstrated proficiencies. Students in grades 10-12 who enroll in this course and wish to earn three college credits will register with La Roche College and pay a nominal course fee. 9th grade students are ineligible to earn high school credits. Enrolled students must earn a C or higher to receive the three college credits.

Grade Level: 9-12

PERSONAL FINANCE 6205 CREDIT 0.5

"An investment in knowledge, always pays the best interest" - Ben Franklin

Regardless of your career path, everyone will have to learn how to handle personal finances. This semester course will provide students with the knowledge of the financial planning process and the vital components of saving and investing. Students will learn to set and reach financial goals by completing a budgeting simulation, maintaining checking and savings accounts, and exploring various investment vehicles such as: stocks, bonds, mutual funds and IRAs. The course will help students function effectively as investors and savers, increasing the likelihood of their future financial success. Finance students will utilize financial game simulations, competitions, and project-based evaluations to demonstrate understanding. Start building your wealth today!

Grade Level: 9-12

SPORTS & ENTERTAINMENT MARKETING 6225 CREDIT 0.5

This course is designed for students who have an interest in the sports and entertainment industry. Sports and Entertainment Marketing is taught in over 100 College and University Business programs. This is an interdisciplinary course, which provides students with the opportunity to learn marketing principles in the field of sports, recreation and entertainment. Students explore the content areas of event planning, sponsorships, public image, endorsements, legal issues, market segmentation and the entertainment industry. Skills in communications, human relations, psychology, and mathematics are reinforced in this course. Students will market their own fantasy sports team by designing a professional promotional plan, sponsorship proposals, and advertising materials.

Grade Level: 9, 10, 11, 12

GAME PRODUCTION AND MARKETING 6676 CREDIT 1.0

Once students have completed two or more Entertainment Technology skill courses, it’s time to put their new skills to use for an outside client! You’ll divide into teams to create, market, and sell your game while battling for the title of “Most Games Sold” using a virtual-dollar system. They will work with businesses, non-profits, schools, and other community organizations to gain experience with “real world” clients. Pay back to your community by creating apps, art, games, website, and more for local businesses. Game Production and Marketing offers unique and exciting opportunities to students to gain marketing and sales experience. Flex your creative muscle and get your “blueprint for success.”

Prerequisite: Completed two courses from Entertainment Technology

Grade Level: 11-12

INTERNATIONAL BUSINESS & ETHICS 6230 CREDIT 0.5

No matter where your future interests lie, a solid foundation in business can help you reach your personal and career goals. Knowledge of business systems throughout the world and how they operate empowers students to make better decisions for managing or working for a business as well as for personal financial well-being. Students will examine the problems and challenges of operating a business and managing a workforce in a global environment. Mergers and acquisitions, ethical issues, cultural differences, communication strategies, human resource investment and utilization, e-commerce, the securities market and current work place trends will be examined through a variety of hands-on projects, class activities, and in-class debates.

Grade Level: 9-12

PRACTICAL SKILLS FOR LIFE 6305 CREDIT 0.5

This course is comprised of four separate four-and-one-half week units of Business Education, Health Education, Family and Consumer Science, and Technology Education. Scheduling constraints may minimize the availability of all four areas.

- The Business Education component includes units on: goal setting; financial fitness—money skills, credit, banking, budgeting, spending, and savings; car insurance; and career and personal planning. Students will learn how to use checking and savings account registers, develop personal budgets based on personal spending records, and complete business forms.

- The Health Education component will help students develop a personal wellness program, knowledge of life saving skills. This course will allow students to practice, demonstrate and test first aid and CPR.
• The Family and Consumer Sciences component focuses on life after high school. Topics include living on your own, meal preparation, care of clothing, and personal relationships.

• The Technology Education section of this course is designed to teach students useful skills in several areas. Students will learn basic vehicle maintenance, including changing a tire and checking fluids. The course will cover simple home maintenance techniques to patch drywall and replace a wall switch as well. Students will also explore several different resources to aid with vehicle purchasing and leasing, travel, and other areas.

*Grade Level: 11 & 12*
English Department

The North Hills English curriculum provides students varied opportunities for mastery in the areas of reading, writing, speaking, and listening. Study and testing strategies are emphasized throughout the English department curriculum in preparation for PSAT, SAT, ACT, Keystone and local assessments.

ENGLISH 9 1110  CREDIT 1.0

English 9 integrates the Pennsylvania Core Standards for English Language Arts. In addition to providing students with a sequenced study of language skills and literary analysis, this course also provides students with an in-depth study of composition, grammar, and research.  

Grade Level: 9

Pre-AP ENGLISH 9 11P1  CREDIT 1.0

Pre-AP English 9 is designed for the student who is self-directed, who has demonstrated a strong work ethic, and who has excelled in academic English in grades 7 and 8. Pre-AP English 9 integrates the Pennsylvania Core Standards for English Language Arts. In addition to providing students with an in-depth study of language skills and literary analysis, this course also provides students with an intense study of composition, grammar, and research.

Prerequisite: A grade of “B+” or better in grade 7; a grade of “A-” or better in 8th grade.

Grade Level: 9

NOTE: This course has a summer reading requirement; students should collect the materials before they leave school for the summer.

ENGLISH 10 1210  CREDIT 1.0

English 10 emphasizes proficiency in reading, writing, speaking, and listening skills, which will help prepare the student for both high school and college-level courses. Student writing encompasses the development and mastery of both paragraph and essay structure and the research paper writing process. Additionally, students are exposed to both fiction and non-fiction literature from a variety of genres, time periods, and cultures. Units include the study of writing, literature, vocabulary, grammar, and standardized test preparation, including the PSAT and Keystone exams. The Keystone Exam that occurs in the spring is the state-mandated assessment for all tenth graders.

Prerequisite: English 9

Grade Level: 10

PRE-AP ENGLISH 10 12P1  CREDIT 1.0

Pre-AP English 10’s curriculum is designed to provide students with the skills they will need to be successful in Honors or AP English courses in their junior and senior years. Through a close examination of classic works from various cultures and time periods, students will develop their reading skills as well as their abilities to analyze texts through writing. The writing assignments, both formal and informal, are designed to prepare students for the types of writing they will encounter in high school courses, on state exams and also in college. The course focuses on grammar, mechanics, usage, and vocabulary development as they apply to writing and speaking.

Prerequisite: A grade of “B” or better in Pre-AP English 9 or a grade average of an “A” in English 9 with recommendation of the student’s 9th grade English teacher.

Grade Level: 10

NOTE: This course has a summer reading requirement; students should collect the materials before they leave school for the summer.

AMERICAN LITERATURE & COMPOSITION 1310  CREDIT 1.0

American Literature and Composition traces the history and development of American literature. In doing so, this course exposes students to a variety of genres of literature including novels, plays, short stories, poetry, and nonfiction texts. This course emphasizes skills identified in the Pennsylvania Core Standards for English Language Arts through content, vocabulary, and grammar concepts aligned across the curriculum.

Prerequisite: English 10

Grade Level: 11

HONORS AMERICAN LITERATURE & COMPOSITION 13P1  CREDIT 1.0

Honors American Literature and Composition traces the history and development of American literature. In doing so, this challenging course exposes students to a variety of genres of literature, including novels, plays, short stories, poetry, and nonfiction texts. Through emphasizing skills identified in the Pennsylvania Core Standards for English Language Arts, the course prepares students for college-level literary analysis and research writing. This is accomplished through content, vocabulary, and grammar concepts aligned across the curriculum.

Prerequisite: Pre-AP English 10 with a grade average of “B-” or higher or English 10 with a grade average of “A-” or higher with recommendation of the student’s 10th grade English teacher.

Grade Level: 11

NOTE: This course has a summer reading requirement; students should collect the materials before they leave school for the summer.
AP ENGLISH LANGUAGE & COMPOSITION 13A1 CREDIT 1.0
AP English Language & Composition helps students to become skilled readers of prose written in a variety of rhetorical contexts and to become skilled writers who compose for a variety of purposes. Students become much more aware of the importance of various types of diction, structure, and rhetorical devices though the varied reading and writing assignments. These necessary skills are honed through a diverse reading collection of historical and contemporary nonfiction texts in addition to traditional American and British novels. At the end of the course, students are required to complete the AP English Language & Composition Exam with the possibility of earning collegiate credits.

Prerequisite: Pre-AP English 10 with a grade average of "B" or higher and the recommendation of the student's 10th grade English teacher.
Grade Level: 11

NOTE: This course has a summer reading requirement; students should collect the materials before they leave school for the summer.

AP ENGLISH LITERATURE & COMPOSITION 14A1 CREDIT 1.0
AP English Literature and Composition offers intensive preparation in literary analysis and interpretation. The students will read selected essays, short stories, poetry, plays, and novels. The course follows the chronology of British literature but is not limited to those selections. The student will study the writing process and write critical essays about the literature. At the end of the course, students are required to complete the AP English Literature & Composition Exam with the possibility of earning collegiate credits.

Prerequisite: AP English Language and Composition or a grade of "A" or higher in Honors American Literature and Composition and the recommendation of the student's 11th grade English teacher.
Grade Level: 12

NOTE: This course has a summer reading requirement; students should collect the materials before they leave school for the summer.

12th Grade Courses

Students not taking Advanced Placement English Literature & Composition or English 12 must choose two of the following five options to fulfill their 12th grade English requirement. This literature will be paired with poetry and nonfiction selections for comparison and analysis. This course will engage those enrolled in an intensive study of literary analysis, collegiate writing, research concepts, practical grammar for better writing, and the review of literary devices to develop higher level thinking skills.

ADVENTURE & QUEST 1420 CREDIT 0.5
This course will trace the epic concept from classic to modern texts. Major works read include The Hobbit, Sir Gawain and The Green Knight, Beowulf, The Things They Carried, and selections from The Iliad, The Odyssey, The Canterbury Tales, King Lear, or Henry V. This literature will be paired with poetry and nonfiction selections for comparison and analysis through discussion and writing.

Prerequisite: 11th grade English course.
Grade Level: 12

APOCALYPTIC LITERATURE 1425 CREDIT 0.5
This course focuses on classic and contemporary literature with an apocalyptic theme. Works read include Frankenstein, The Inferno, War of the Worlds, and No Country for Old Men. Students will also read The Tragedy of Hamlet: Prince of Denmark. This literature will be paired with poetry and nonfiction selections for comparison and analysis through discussion and writing.

Prerequisite: 11th grade English course.
Grade Level: 12

FEMALE PERSPECTIVES 1430 CREDIT 0.5
This course focuses on gaining historical perspective on women's roles in society through classic and contemporary literature. Novels read include The Awakening, The Joy Luck Club and Wuthering Heights. Drama selections include The Taming of the Shrew, A Doll's House and Antigone. This literature will be paired with poetry, short stories and nonfiction selections for comparison and analysis through discussion.

Prerequisite: 11th grade English course.
Grade Level: 12

QUESTIONING THE SELF 1435 CREDIT 0.5
This course features a survey of literature designed to intrigue, teach, motivate, and inspire students to enhance their awareness of self and society. Novels read will include Tuesdays with Morrie, The Kite Runner, and Things Fall Apart. Drama selections include The Tragedy of Macbeth, Fences and The Sunset Limited. This literature will be paired with poetry and nonfiction selections for comparison and analysis through discussion and writing.

Prerequisite: 11th grade English course.
Grade Level: 12
SOCIAL CLASS WARFARE 1445 CREDIT 0.5
This course focuses on classic to contemporary literature featuring a societal conflict. Novels read will include *1984*, *Fahrenheit 451*, *The Chosen*, and *The Time Machine*. Students will also read the Shakespearean drama *Othello*. This literature will be paired with poetry and nonfiction selections for comparison and analysis through discussion and writing.

*Prerequisite: 11th grade English course.*
*Grade Level: 12*

## English Electives

In addition to the required grade-level English courses outlined above, students may also choose to take additional English electives. These electives enable students to pursue special interests and to develop personal goals. All English electives are semester courses with the exception of Journalism and Yearbook, which meet on alternating days throughout the school year.

### CONVENTIONS OF WRITING 1620 CREDIT 0.5
Conventions of Writing is a semester-long course designed to supplement the grammar, mechanics, and usage instruction students receive in their grade-level English classes where only a portion of class time can be devoted to the improvement of those skills. By placing the primary focus on punctuation, agreement, usage, and other common errors, this course offers concentrated review of the skills with which most students need more practice. This course also offers direct instruction on the skills, concepts, and question types used on the Writing and Language section of the redesigned SAT and the English section the ACT.

*Grade Level: 9, 10, 11*

### CREATIVE WRITING 1615 CREDIT 0.5
Creative Writing is a one-semester course designed for students who enjoy writing and who are interested in writing in different genres. Emphasis is placed on the craft of writing and revision. Students maintain a writing journal and examine precise diction, language structures, poetry terms, dialogue, and writing techniques. Various genres of both fiction and nonfiction writing are explored including personal playwriting, and short stories. Additionally, students learn to write for different audiences while developing their 'writer's voice'.

*Grade Level: 9 – 12*

### SPEECH 1525 CREDIT 0.5
Speech is designed to develop public speaking skills to assist students in becoming more competent, relaxed, and confident speakers. The course develops the various modes of public speaking: group discussions, speeches, formal debates, and oral interpretation of literature.

*Grade Level: 9-12*

### CHS ARGUMENTATION 15C1 CREDIT 0.5
Offered in cooperation with the Speech Communications Department of the University of Pittsburgh, CHS Argumentation examines the fundamentals of argument and intends proficiency in the application of these elementary debating techniques. There are two main units in the course. The first unit examines the foundations of argument construction, support, and refutation. The second unit develops argument skills through in-class activities including individual debates, team debates, and Student Congress. Completion of this course affords students an opportunity to earn three university credits for a nominal university fee.

*Grade Level: 11 & 12*

### JOURNALISM 1 1605 CREDIT 0.5
Journalism 1 is designed for students who are interested in the field of journalism, possess fundamental writing skills, and would like to contribute to *The Arrowhead*, our student newspaper. In this course, students will explore various topics in the field of journalism, including ethics, publication, different types of writing, and career opportunities. Additionally, students will learn the basic skills of newspaper production in both print and online formats: writing in every news genre, photography, and layout. In Journalism I, students are encouraged to contribute to *The Arrowhead*; however, it is not a requirement.

*Grade Level: 10 – 12*

### JOURNALISM 2 1610 CREDIT 0.5
In Journalism 2, students will utilize the basic journalistic skills they learned in Journalism 1 to produce *The Arrowhead*, our school newspaper, in a workshop-based setting. In Journalism II, students are required to participate in all aspects of newspaper production in both print and online formats. This includes, but is not limited to, producing and editing pieces of writing in each news genre, working with layout and design, taking and editing photographs, creating graphics, and promoting our school newspaper.

*Prerequisite: Journalism 1*

*Grade Level: 10 – 12*
In Journalism 3, students will utilize the basic journalistic skills they learned in Journalism 2 to produce *The Arrowhead*, our school newspaper, in a workshop-based setting. In Journalism 3, students are required to participate in all aspects of newspaper production in both print and online formats. This includes, but is not limited to, producing and editing pieces of writing in each news genre, working with layout and design, taking and editing photographs, creating graphics, and promoting our school newspaper.

**Prerequisites:** Journalism 1, Journalism 2

**Grade Level:** 11-12

In Journalism 4, students will utilize the basic journalistic skills they learned in Journalism 3 to produce *The Arrowhead*, our school newspaper, in a workshop-based setting. In Journalism 4, students are required to participate in all aspects of newspaper production in both print and online formats. This includes, but is not limited to, producing and editing pieces of writing in each news genre, working with layout and design, taking and editing photographs, creating graphics, and promoting our school newspaper.

**Prerequisites:** Journalism 1, Journalism 2, Journalism 3

**Grade Level:** 11-12

Students will publish the high school yearbook, *Norhian*, a written and visual documentation of the experiences of high school life. The following skills will be introduced: journalism, copywriting, editing, photography, and layout. Students will then apply these skills to the creation and production of the yearbook. Students will be responsible for gathering and organizing information from a variety of sources and identifying creative ways of displaying the information collected. Objectives for this course will include an understanding of photographic techniques, journalism, copywriting, and editing.

**Grade Level:** 9-12

Students will publish the high school yearbook, *Norhian*, a written and visual documentation of the experiences of high school life. The following skills will be reinforced: journalism, copywriting, editing, photography, and layout. Students will then apply these skills to the creation and production of the yearbook. Students will be responsible for gathering and organizing information from a variety of sources and identifying creative ways of displaying the information collected. Objectives for this course will include a demonstrated understanding of photographic techniques, journalism, copywriting, and editing.

**Prerequisite:** Yearbook 1

**Grade Level:** 10, 11, 12

Students will publish the high school yearbook, *Norhian*, a written and visual documentation of the experiences of high school life. Students will select a primary focus: journalism, photography, layout, business, and communications/advertising. Within that focus, students will work as acting editors within their department. They will coordinate efforts with other editors in the class to create and produce a cohesive yearbook.

**Prerequisite:** Yearbook 2

**Grade Level:** 11, 12

Students will publish the high school yearbook, *Norhian*, a written and visual documentation of the experiences of high school life. Students will select a primary focus: journalism, photography, layout, business, and communications/advertising. Students will be responsible for teaching aspects of their primary focus to students in lower levels of the class. Students in Yearbook IV will be Editors-in-Chief. They will coordinate all aspects of the Yearbook, across classes. They will communicate with students, parents, and community members regarding the yearbook. They will work with the acting editors to create and produce a cohesive yearbook that demonstrates their extensive knowledge of the yearbook process.

**Prerequisite:** Yearbook 3

**Grade Level:** 12

Language Enrichment is designed for college-bound students who wish to expand their vocabularies and standardized testing skills through a concentrated study of vocabulary and roots, stems, prefixes, and suffixes that create meaning in words. Emphasis is placed on weekly vocabulary and etymology lessons and the review of SAT and ACT testing strategies for the Critical Reading, Language, and English sections of the tests. Weekly language activities SAT and ACT practice exercises and assessments on vocabulary and etymologies will comprise the majority of this half-credit course.

**Grade Level:** 10-12
LEADERSHIP 1520 CREDIT 0.5
Leadership is designed for students to explore what it means to be a leader in their personal lives, schools, and communities while enhancing communication skills through writing, speaking, and literacy. Students will explore and complete five units of study (leadership, personal leadership/personal skills, goal-setting, communication, and service project/project planning) and will apply, analyze, synthesize, and evaluate knowledge gained through the course as they demonstrate their own leadership skills. Students will examine various types of writing, both fiction and nonfiction, as they evaluate what it means to be a leader, and they will also be expected to write as they explore and complete each unit.

Grade Level: 9-12

SAT AND ACT PREP 1510 CREDIT 0.5
SAT and ACT Prep provides students with the opportunity to practice testing skills and strategies they need to optimize for success on the SAT and ACT. Using data from students’ 10th grade PSAT tests, students will identify areas of personal strengths and weaknesses and will work both individually and in small and whole group settings using actual SAT and ACT test questions. SAT and ACT Prep will also employ an online component that utilizes the College Board’s online SAT prep program, an online self-guided program that allows students to work at their own paces and target individual needs and personal goals. Co-taught by an English teacher and a math teacher using flexible scheduling, this course may require students to purchase supplementary materials.

Prerequisite: Successful completion of a 10th grade English, Geometry and Language Enrichment or Conventions of Writing

Grade Level: 11 & 12

INTRODUCTION TO THEATRE 1705 CREDIT 0.5
Introduction to Theatre invites the student to take a broad view of the theater arts. It considers all the major forms of the theater and shows how playwrights, both past and present, have shaped their plays in different ways to express different aspects of their times and their own diverse attitudes towards life. Finally, it shows the ways in which the director, the actor, and the designer work together to create a production that is a unique work of art through participation in a production’s construction crew.

Grade Level: 9-12

CHS MEDIA & COMMUNICATION 64C1 CREDIT 1.0
In our ever-changing world of mass media and Internet communications, millennials must learn how to critically analyze the mass media and their value in today’s culture. The major goal of this course is to improve media literacy by providing students with a liberal arts perspective on the role of the mass media in our society. Students will learn the history, current state, basic techniques and functions, and future challenges in each of the major areas of advertising/public relations, broadcasting/cable, print journalism, digital media and the Internet, and visual communications. This CHS course will correlate with Point Park University’s JOUR 101, Survey of Mass Communication. Completion of this course affords students an opportunity to earn three university credits for a nominal fee.

Grade Level: 11, 12

SCREENWRITING 1717 CREDIT 0.5
This course developed through Carnegie Mellon’s Entertainment Technology Center, is designed to help students understand, critique, and write dramatic stories for modern media including movies, games, and television. In doing so, they will develop skills in creative writing, professional acting, collaborative storytelling, and creative self-confidence. This course also provides many cross-curricular opportunities. It will enrich students’ English skills in writing and analyzing the plot, structure, character development and them in a story. In addition, it will enhance students’ interest in media studies, speech, theater, and filmmaking.

Grade Level: 10, 11, 12

ACTING I 1751 CREDIT 0.5
Acting I is an extension of the Introduction to the Theater course with a special emphasis on acting. This course explores techniques for auditioning, building and maintaining a character, building an ensemble, interpreting the script for performance elements, and employing various acting styles and dialects.

Grades 9-12

ACTING II 1752 CREDIT 0.5
Students will continue to develop their acting techniques in this course. The students will explore the concept of self and go outside of the self to create character. Students work on scenes from modern theater, children’s theater, classical theater, and farce. Students present their scene work to an invited audience in the fall and spring plays and musicals.

Prerequisite: Acting I

Grade Level: 10, 11, 12
**ACTING III**

Upper class students have an opportunity to apply two to three years of skills and techniques to the rehearsal and production of fully produced plays for invited audiences and public performances. Projects include large group scenes and One Act plays. Students immerse themselves in student-generated projects, such as musical theater and cabaret, filmmaking, and playwriting.

*Prerequisite: Acting II
*Grade Level: 11, 12

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**ACTING IV**

Upper class students have an opportunity to apply two to three years of skills and techniques to the rehearsal and production of fully produced plays for invited audiences and public performances. Projects include large group scenes and One Act plays. Students immerse themselves in student-generated projects, such as musical theater and cabaret, filmmaking, and playwriting.

*Prerequisite: Acting III
*Grade Level: 11, 12

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**VOICE AND DICTION**

Students will refine their public speaking skills in this course by focusing on projection, diction, IPA, breath support, vocal anatomy, and Standard American Speech. They will also explore techniques in voice over and accent work. In addition, students will use professional recording equipment for broadcasting projects.

*Grade Level: 10, 11, 12
Family & Consumer Science Department

Family and Consumer Science classes are offered as semester electives. Various interests which fall under the umbrella of Family and Consumer Science are explored. Students may choose from courses that explore an understanding of early childhood development, gain appreciation and knowledge of various cooking styles and techniques, and advance skills in sewing and other needlecrafts.

### NUTRITION, FOOD & FITNESS 6370  CREDIT 1.0
We live in a society where fast food, convenience products and portion distortion are becoming increasingly popular. Learn how to interpret food labels, decode nutritional claims and fuel your body with the right foods for healthy living. Healthy food preparation labs, greenhouse gardening and recipe makeover labs will be an integral part of the learning experience. Students will work with their Physical education instructor to develop and build their knowledge and appreciation of lifelong fitness activities. Students enrolled in this course will also be enrolled in a Physical Education class during the same period. The Family and Consumer Science teacher and Physical Education teacher will design interdisciplinary units to deliver the curriculum.

*Grade Level: 9-12*

*You will automatically be enrolled in a PE class.*

### CHS NUTRITION 63C1  CREDIT 0.5
Offered in cooperation with Seton Hill University, CHS Nutrition is an introductory study of nutrition principles and their relationship to health. The course is designed to provide a scientific understanding of food and nutrition and its relationship to overall health and wellness. Social issues including the topics of vegetarianism, dieting and eating disorders will also be a focus of study. Laboratory experiences investigating nutritional content of food will be integrated into the curriculum. Seton Hill University will award 3 college credits to students who successfully complete this course and opt to purchase the credits at a greatly reduced rate.

*Prerequisite: Biology.*

*Grade Level: 10, 11, 12*

### TEEN TRANSITIONS 6320  CREDIT 0.5
This course prepares students for teen and adult life by exploring issues teenagers often face and discussing consequences for their choices and actions. Students will explore interpersonal communication skills, school success strategies, college life preparation, part time job work skills, and issues surrounding teen overall well-being and safety. Through practical, hands-on experiences and simulations, students will work towards increasing their own self-worth and confidence as they interact and succeed in the 21st century.

*Grade Level: 9, 10, 11*

### TODAY’S FOODS 6345  CREDIT 0.5
This course is designed for the student who is interested in the preparation and serving of foods that are quick to prepare and appetizing. Within in this course students participate in food demonstrations and hands on experiences in cooking labs. Topics will focus on understanding recipes, culinary equipment, food handling, thirty-minute meals, and nutrition. Students will prepare food using convenience items for breakfast, lunch, and dinner. This course is great for any student wanting to become independent in the kitchen.

*Grade Level: 9-12*

### WORLD CUISINES AND CULTURES 6355  CREDIT 0.5
Take a culinary journey around the world. Students explore selected ethnic cuisines and customs while preparing various international foods. Units of study will introduce the students to the customs, culture and cuisine of each country. Teacher demonstration and student lab experiences are an integral part of the learning experience.

*Grade Level: 9-12*

### GOURMET FOODS 6340  CREDIT 0.5
This class focuses on a more in depth study of cooking techniques and the preparation of food. Students will acquire new skills in culinary through many teacher demonstrations and hands on experiences. A sample of units includes garnishing, appetizers, pastry making, cake decorating, yeast breads, and meal planning. This class will develop your own culinary skills and may even spark an interest in a food related career.

*Prerequisite: Today's Food or World Foods.*

*Grade Level: 11, 12*
CREATIVE SEWING 6310 CREDIT 0.5

Students will learn to sew for practical purposes and personal enjoyment as they select projects to meet various skill requirements. Since the course may be elected for four different semesters, the projects are differentiated based on the student’s ability level and interests so that skills can be developed and increased. Consecutive projects will increase in degree of difficulty as students use technology to assemble and create unique items. Areas of study include basic sewing machine techniques, fabric and pattern selection, construction techniques and interpreting pattern instructions. Students provide the necessary supplies for their individual sewing projects.

Prerequisite Fashion and Sewing.

Grade Level: 9-12

FASHION AND SEWING 6312 CREDIT 0.5

Fashion and Sewing is a semester course designed to offer an overview of the fashion world. Explore why clothing is a universal need, the principles of color, careers within the fashion industry, and how cultures shape current fashion trends. Create a portfolio including your own figure drawing, fashion sketches and textile and color palettes. Students will also be introduced to sewing equipment, sewing fundamentals, fabric and patterns and professional construction techniques. These skills provide the foundation for a wide range of careers available in the fashion industry.

Students provide the necessary supplies for their individual sewing projects; most supplies for the study of fashion/design and community service projects are provided in class.

Grade Level: 9-12

INTERIOR DESIGN 6315 CREDIT 0.5

The Interior Design course is recommended for students that have an interest in interior design or architecture. Students will spend the first 45 class periods designing a floor plan, plot plan, computer model, and physical model of either a small residential home or a small restaurant. The student will then take their architectural designs to the F&CS classroom for the remaining 45 class periods to incorporate color, texture, fabric, style, furnishing, accessories, lighting, and paint in a way that reflects their own style, or the style of the clients. The course will also give the students the practical business and educational information they can use to start their own career.

Grade Level: 9-12
All students are required to successfully complete 0.5 credits of health to meet graduation requirements. All students are required to complete two credits of coursework in following courses: Sports and Recreation, Personal Fitness, or Creative Movement. Additional electives are available for students desiring to further develop their personal interests and skills. Students participating in the Physical Education courses are required to wear a district approved gym uniform. There is a nominal charge for the uniform.

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<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Credit</th>
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<tr>
<td>HEALTH</td>
<td>6505</td>
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<tr>
<td>CONTEMPORARY ISSUES OF SPORT</td>
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<tr>
<td>PRACTICAL SKILLS FOR LIFE</td>
<td>6305</td>
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<tr>
<td>NUTRITION, FOOD &amp; FITNESS</td>
<td>6370</td>
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<tr>
<td>PHYSICAL EDUCATION- FITNESS AND SPORTS</td>
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**HEALTH 6505 CREDIT 0.5**

The purpose of this course is to offer students an opportunity to increase their knowledge about health. Students will have the opportunity, through a variety of activities, to evaluate their own health behavior and to understand the importance of improving and maintaining positive health habits. Successful completion of this course is a graduation requirement.

*Grade Level: 9, 10*

**CONTEMPORARY ISSUES OF SPORT 6510 CREDIT 0.5**

The purpose of this course is to offer students an opportunity to explore the various aspects of sports and the role that they play in society. Topics discussed in this course will include: sports officiating, sports law, economics of sport, care and prevention of athletic injuries, rehabilitation, sport specific training, sports nutrition, and proper sports etiquette for spectators. This elective course will not satisfy a Health credit for graduation.

Prerequisite: Health.

*Grade Level: 11, 12*

**PRACTICAL SKILLS FOR LIFE 6305 CREDIT 0.5**

This course is comprised of four separate four-and-one half week units of Business Education, Health Education, Family and Consumer Science, and Technology Education. Scheduling constraints may minimize the availability of all four areas.

- The Business Education component includes units on: goal setting; financial fitness—money skills, credit, banking, budgeting, spending, and savings; car insurance; and career and personal planning. Students will learn how to use checking and savings account registers, develop personal budgets based on personal spending records, and complete business forms.
- The Health Education component will help students develop a personal wellness program, knowledge of life saving skills. This course will allow students to practice, demonstrate and test first aid and CPR.
- The Family and Consumer Sciences component focuses on life after high school. Topics include living on your own, meal preparation, care of clothing, and personal relationships.
- The Technology Education section of this course is designed to teach students useful skills in several areas. Students will learn basic vehicle maintenance, including changing a tire and checking fluids. The course will cover simple home maintenance techniques to patch drywall and replace a wall switch as well. Students will also explore several different resources to aid with vehicle purchasing and leasing, travel, and other areas.

*Grade Level: 11 & 12*

**NUTRITION, FOOD & FITNESS 6370 CREDIT 1.0**

We live in a society where fast food, convenience products and portion distortion are becoming increasingly popular. Learn how to interpret food labels, decode nutritional claims and fuel your body with the right foods for healthy living. Healthy food preparation labs, greenhouse gardening and recipe makeover labs will be an integral part of the learning experience. Students will work with their Physical education instructor to develop and build their knowledge and appreciation of lifelong fitness activities. Students enrolled in this course will also be enrolled in a Physical Education class during the same period. The Family and Consumer Science teacher and Physical Education teacher will design interdisciplinary units to deliver the curriculum.

*Grade Level: 9-12*

**PHYSICAL EDUCATION- FITNESS AND SPORTS 6525 CREDIT 0.5**

Fitness and Sports offers each student an opportunity to develop & enhance the use of physical, social, mental, & emotional attributes that reflect an emphasis on total body wellness. Physical fitness will be obtained through a team sports realm. Students have the opportunity to participate in various competitive individual and team sports. A swimming unit is included in the curriculum.

*Grade Level: 9-12*
PHYSICAL EDUCATION - PERSONAL FITNESS 6530  CREDIT 0.5
The purpose of this course is to offer each student the opportunity to develop and enhance their personal wellness. Physical fitness will be obtained through individualized workouts utilizing fitness equipment. Students will have the opportunity to create an instructor assisted personal wellness plan that will be followed for the semester. This course will meet in the weight room. A swimming unit is included in the curriculum.

Grade Level: 9-12

PHYSICAL EDUCATION - CREATIVE MOVEMENT 6540  CREDIT 0.5
The purpose of this course is to offer each student the opportunity to use movement in developing and enhancing physical, social, mental, and emotional attributes that reflect an emphasis on wellness. Physical fitness will be obtained through a dance and fitness realm. A swimming unit is included in the curriculum.

Grade Level: 9-12
Math Department

The North Hills Math Curriculum is aligned with Pennsylvania’s Core Standards and taught through three core courses: Algebra 1, Geometry, and Algebra 2. In addition, topics from logical reasoning, measurement, probability, statistics, discrete math, and functions are interwoven throughout each. Honors courses offer a faster pace, greater challenge, and more mathematical theory. Additional advanced mathematics opportunities are available for students progressing beyond Algebra 2. A TI-83 or TI-84 graphics calculator is required for all high school mathematics courses.

**ALGEBRA 1** 3110 CREDIT 1.0

Algebra 1 is the first course of the Algebra 1 - Geometry - Algebra 2 sequence. Concepts taught in this course include topics from algebra, statistics, probability, and logical reasoning.

*Prerequisite: None.*

*Grade Level: 9*

**GEOMETRY** 3210 CREDIT 1.0

Geometry is the second of three academic courses in the math program. In Geometry, students will develop reasoning and problem solving skills as they study topics such as congruence and similarity, and apply properties of lines, triangles, quadrilaterals, and circles. The students will also develop problem-solving skills by using length, perimeter, area, circumference, surface area, and volume to solve real world problems. A graphing calculator is recommended for this course.

*Prerequisite: Algebra 1.*

*Grade Level: 9*

**HONORS GEOMETRY** 32P1 CREDIT 1.0

Honors Geometry is the second of three academic courses in the math program. In Honors Geometry, students will develop reasoning and problem solving skills as they study topics such as congruence and similarity, and apply properties of lines, triangles, quadrilaterals, and circles. The students will also develop problem-solving skills by using length, perimeter, area, circumference, surface area, and volume to solve real world problems. A graphing calculator is recommended for this course.

*Prerequisite: Algebra 1 with an “B+” or higher.*

*Grade Level: 9-12*

**ALGEBRA 2** 3310 CREDIT 1.0

Algebra 2 is the third of three academic courses in the math program. The content of Algebra 2 is organized around families of functions including linear, quadratic, exponential, logarithmic, and radical and rational functions. Students will learn to represent these functions in multiple ways such as verbal descriptions, equations, tables and graphs. Students will also learn to model real-world situations using functions in order to solve problems arising from those situations. This course will also include lessons on probability and data analysis as well as exercises involving geometry and basic trigonometry. A graphing calculator is recommended for this course.

*Prerequisite: Geometry*

*Grade Level: 9, 10*

**HONORS ALGEBRA 2** 33P1 CREDIT 1.0

Honors Algebra 2 is the third of three academic courses in the math program. The content of Honors Algebra 2 is organized around families of functions including linear, higher order polynomial exponential, logarithmic, radical, and rational functions. Students will learn to represent these functions in multiple ways- as verbal descriptions, equations, tables and graphs. Students will also learn to model real-world situations using functions in order to solve problems arising from those situations. This course will also include lessons on probability data analysis, sequences, and series involving geometry and basic trigonometry. A graphing calculator is recommended for this course.

*Prerequisite: Honors Geometry with a “B” or higher.*

*Grade Level: 9, 10, 11*

**COLLEGE ALGEBRA** 3405 CREDIT 0.5

Students who would like to improve their algebraic skills and prepare for college math should select this course. This course reviews and expands upon algebra concepts from Algebra II, and prepares students for the SAT/ACT, college mathematics placement exams, and the ASVAB. A graphing calculator is recommended for this course.

*Prerequisite: Algebra 2.*

*Grade Level: 11 or 12*
TRIGONOMETRY 3410 CREDIT 0.5

Trigonometry, at its core, is the study of triangles, circles, and how they relate. It focuses on circular and trigonometric functions, identities, and applications of functions to the right triangle. A graphics calculator is recommended for this course.

Prerequisite: Algebra 2.
Grade Level: 11 or 12

TRIGONOMETRY/PRE-CALCULUS 3415 CREDIT 1.0

Trigonometry / Pre-Calculus begins with the study of algebraic functions including linear, quadratic, higher order polynomial, and rational. The second semester focuses on the study of trigonometry. This begins with the study right triangle trigonometry, and extends to trigonometric functions of any angle and the study of conic sections. Applications including graphing trigonometric functions, solving oblique triangles, and vectors are discussed as well. A graphing calculator is recommended for this course.

Prerequisite: Algebra 2 with a "B" or higher.
Grade Level: 11, 12

HONORS TRIG/PRE-CALCULUS 34P1 CREDIT 1.0

Honors Trigonometry / Pre-Calculus are offered to those who have excelled in Honors Algebra 2. This course focuses on algebraic functions, logarithmic and exponential functions, circular and trigonometric functions, identities, applications of the trigonometric functions to the right triangle, analytical geometry, conics, theory of limits, and development of the derivative. A graphics calculator is recommended for this course.

Prerequisite: Honors Algebra 2 with a "B" or higher.
Grade Level: 11, 12

AP CALCULUS (AB) 35A1 CREDIT 1.0

This introductory level AP Calculus course is recommended for highly qualified students who have excelled in the honors mathematics program. AP Calculus is a course that demands an understanding of the concepts taught in Honors Algebra 2 and Honors Trigonometry and Pre-Calculus. The topics covered include: differential calculus, basic rules of integration, advanced integration techniques, applications of derivatives and integrals, the calculus of transcendental functions. A graphics calculator will be used for problem-solving activities in class and for homework problems.

Prerequisite: Honors Trig/Pre-Calc with a "B" or higher.
Grade Level: 11, 12

AP CALCULUS (BC) 35A2 CREDIT 1.0

AP Calculus (BC) is the second level of the AP Calculus program and topics include: differential calculus, basic rules of integration, advanced integration techniques, applications of derivatives and integrals, the calculus of transcendental functions, sequences and series, parametric and polar equations, the study of vectors, and the calculus of several variables. A graphics calculator will be used for problem-solving activities in class and for homework problems. All students enrolling in this course must take the AP Calculus BC exam in the spring.

Prerequisite: AP Calculus (AB).
Grade Level: 12

CHS BUSINESS CALCULUS 35C1 CREDIT 1.0

The Business Calculus course is recommended for students who have an interest in business, economics, and other social sciences. Students taking this course have an option of receiving 4 college credits from the University of Pittsburgh. Students desiring college credit must pay a fee to the University of approximately $235. Students enrolling for University credits must pass an online placement as well, which has a fee of $25.

The concepts taught in this course include differentiation, integration and problem solving with emphasis on applications in the social sciences — especially business and economics. The graphics calculator will be used for problem-solving activities in class and for homework problems. All students are required to pass a placement exam prior to the fall term.

Prerequisite: Honors Trig/Pre-Calc or Trig/Pre-Calc with a "C" or higher.
Grade Level: 11, 12

CHS PROBABILITY & STATISTICS 35C2 CREDIT 0.5

CHS Probability and Statistics is offered in cooperation with the University of Pittsburgh. CHS Probability & Statistics presents an introduction to basic concepts of statistics. Probability calculations are studied and students will examine hypothesis testing. Computer instruction will supplement classroom instruction. Students who enroll in this course and wish to earn 4 college credits must register at the University of Pittsburgh and pay a fee of approximately $235. A graphics calculator will be used for problem-solving activities in class and homework problems.

Prerequisite: Algebra 2 with a "B" or higher or Honors Geometry.
Grade Level: 10, 11 & 12
### AP STATISTICS 35A3 CREDIT 1.0

AP Statistics is taught using an activity-based approach. Topics include exploring data, sampling and experimentation, anticipating patterns, and statistical inference. This class uses realistic data sets to help the students understand the application of the statistical topics. Throughout the course, students will apply topics in a project setting using either the graphing calculator or Minitab computer software. All students are required to take the AP Statistics test in the spring. A graphing calculator is required for this course.

**Prerequisite:** Honors Algebra 2 with a "B" or higher, CHS Probability & Statistics with a "C" or higher, or Honors Trig/Pre-Calc.

*Grade Level: 10, 11 & 12*

### COMPUTER SCIENCE 3605 CREDIT 0.5

This one semester lab-based programming course introduces the discipline of computer science to students who have little or no programming experience. Students will utilize the JAVA programming language to learn data types and variables, input/output techniques, mathematical expressions, flow control including selection statements and loop structures, additional methods and modularity, and array structures. Successful completion of Computer Science is a prerequisite for AP Computer Science.

**Prerequisite:** Geometry

*Grade Level: 10, 11, 12*

### AP COMPUTER SCIENCE 36A1 CREDIT 1.0

AP Computer Science expands student programming skills in the JAVA programming language. This course reviews the concepts taught in the Computer Science course and includes topics from the Advanced Placement Computer Science curriculum. These topics include: logical expressions, object oriented programming, developing classes, the hierarchy of classes, using data structures, and introduction to using graphical user interfaces (GUI's). All students are required to take the AP Computer Science A Exam in the spring.

**Prerequisite:** Computer Science with a "C" or higher.

*Grade Level: 10, 11, 12*

### SAT AND ACT PREP 1510 CREDIT 0.5

SAT and ACT Prep provides students with the opportunity to practice testing skills and strategies they need to optimize for success on the SAT and ACT. Using data from students’ 10th grade PSAT tests, students will identify areas of personal strengths and weaknesses and will work both individually and in small and whole group settings using actual SAT and ACT test questions. SAT and ACT Prep will also employ an online component that utilizes the College Board's online SAT prep program, an online self-guided program that allows students to work at their own paces and target individual needs and personal goals. Co-taught by an English teacher and a math teacher using flexible scheduling, this course may require students to purchase supplementary materials. Successful completion of this course will earn 0.5 elective credits.

**Prerequisite:** Successful completion of a 10th grade English, Geometry and Language Enrichment or Conventions of Writing

*Grade Level: 11 & 12*
Music Department

Students may elect to take vocal, instrumental, and theory coursework. Advanced opportunities are available for more established musicians. Participation in practices and performances outside of the regular school day is expected. Student performances are also showcased at the District Arts Alive Festival each spring.

<table>
<thead>
<tr>
<th>SYMPHONIC CHOIR</th>
<th>6405</th>
<th>FULL YEAR</th>
<th>CREDIT 1.0</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6410</td>
<td>HALF YEAR</td>
<td>CREDIT 0.5</td>
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</tbody>
</table>

The Symphonic Choir is the mixed vocal ensemble of the high school choral program. They perform 3-4 concerts each year and have the opportunity to travel annually for a judged performance. Junior and Senior girls and boys in grades 9-12 should select this choir. Symphonic Choir members may also audition for the extra-curricular North Hills Singers ensemble, and may participate in the seasonal Madrigal Choir.

Grade Level: 9-12 boys & 11-12 girls only
NOTE: After school rehearsals and performances are a requirement of this course. Students may elect this class for one semester or for a full year.

<table>
<thead>
<tr>
<th>WOMEN'S CHOIR</th>
<th>6415</th>
<th>FULL YEAR</th>
<th>CREDIT 1.0</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>6420</td>
<td>HALF YEAR</td>
<td>CREDIT 0.5</td>
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</tbody>
</table>

The Women's Choir is open to any girl in grades 9 through 12 who would like to be in a singing ensemble. Auditions are not required. Comprised predominantly of freshmen and sophomores, the Women's Choir performs on all high school concerts along with the Symphonic Choir and also collaborates with them on special performances of larger works with the bands or orchestra. Females already in Symphonic Choir may also elect to take this course if schedules permit. Women's Choir members may audition for the extra-curricular Dreamcatchers ensemble, and may participate in the seasonal Madrigal Choir.

Grade Level: 9-10 girls & any 11-12 girls who choose
NOTE: After school rehearsals and performances are a requirement of this course. Students may elect this class for one semester or for a full year.

<table>
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<tr>
<th>CONCERT BAND</th>
<th>6425</th>
<th>CREDIT 1.0</th>
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</table>

Concert Band is one of four bands at the high school. The ensemble will perform a wide range of wind band literature in a variety of concerts throughout the year. Through the course students will gain musical skills, technical skills, ensemble skills and musical knowledge. Students are accepted and placed into this ensemble through audition and recommendation of the instructor.

Prerequisite: Appointment by audition. Grade Level: 9-12
NOTE: Evening performances are a requirement of this course.

<table>
<thead>
<tr>
<th>WIND SYMPHONY</th>
<th>6430</th>
<th>CREDIT 1.0</th>
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</thead>
</table>

Wind Symphony is one of four bands at the high school. The ensemble will perform a wide range of wind band literature in a variety of concerts throughout the year. Through the course students will gain musical skills, technical skills, ensemble skills and musical knowledge. Students are accepted and placed into this ensemble through audition and recommendation of the instructor.

Prerequisite: Appointment by audition. Grade Level: 9-12
NOTE: Evening performances are a requirement of this course.

<table>
<thead>
<tr>
<th>SYMPHONIC BAND</th>
<th>6435</th>
<th>CREDIT 1.0</th>
</tr>
</thead>
</table>

Symphonic Band is one of four bands at the high school. The ensemble will perform a wide range of wind band literature in a variety of concerts throughout the year. Through the course students will gain musical skills, technical skills, ensemble skills and musical knowledge. Students are accepted and placed into this ensemble through audition and recommendation of the instructor.

Prerequisite: Appointment by audition. Grade Level: 9-12
NOTE: Evening performances are a requirement of this course.

<table>
<thead>
<tr>
<th>WIND ENSEMBLE</th>
<th>6437</th>
<th>CREDIT 1.0</th>
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</table>

Wind Ensemble is one of four bands at the high school. The ensemble will perform a wide range of wind band literature in a variety of concerts throughout the year. Through the course students will gain musical skills, technical skills, ensemble skills and musical knowledge. Students are accepted and placed into this ensemble through audition and recommendation of the instructor.

Prerequisite: Appointment by audition. Grade Level: 9-12
NOTE: Evening performances are a requirement of this course.

<table>
<thead>
<tr>
<th>JAZZ BAND</th>
<th>6440</th>
<th>CREDIT 1.0</th>
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</table>

Jazz Band provides the opportunity to study the many aspects of jazz performance. The ensemble will perform a wide range of concerts in numerous venues throughout the year. Unless excused by the director, students are required to be in one of the school's instrumental performing ensembles. Students are assigned based on director recommendation and instrumentation is limited.

Prerequisite: Appointment by audition. Grade Level: 9-12
NOTE: Evening rehearsals and performances are a requirement of this course.
**ORCHESTRA**  
6445  CREDIT 1.0

Orchestra provides the opportunity to learn music through performance on a string instrument. Through the course students will gain musical skills, technical skills on their instrument, ensemble skills and musical knowledge. Students are accepted by audition or teacher recommendation.

*Prerequisite: Appointment by audition.*  
*Grade Level: 9-12*  
*NOTE: Evening rehearsals and performances are a requirement of this course.*

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**GUITAR ENSEMBLE**  
6459  HALF YEAR  CREDIT 0.5  
6461  FULL YEAR  CREDIT 1.0

Guitar Ensemble is offered for the student that wants to improve their guitar playing ability. All skill levels are welcome. Musical selections ranging from Popular, Classical, Rock, Blues and Jazz will be presented. Students will have the opportunity to perform in individual, duet, trio, quartet and full ensemble format. After school rehearsals will be offered weekly, but attendance is not mandatory.

*Grades Level: 9-12*  
*NOTE: After school performances are a requirement for this course. Students may elect this class for one semester or a full year.*

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**MUSIC THEORY**  
6465  CREDIT 0.5

The purpose of this course is to enhance the students’ understanding of the underlying principles of music. The course covers topics ranging from basic rhythm to modes of the minor scale. Students will also explore music software and online resources throughout the class. Successful completion of this course is required to enroll in Music Technology and/or AP Music Theory.

*Grade Level: 9-12*

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**MUSIC TECHNOLOGY**  
6470  CREDIT 0.5

The purpose of this course is to explore technology resources used to create, evaluate, arrange, and perform music. Real-world applications of music technology are discussed, and topics covered include: sound systems and recording, film scoring, radio commercials and jingles. Software packages utilized include GarageBand, iMovie, Band-in-a-Box, Finale, ProTools, and Academic Reason.

*Prerequisite: Music Theory or Teacher Recommendation.*  
*Grade Level: 10, 11, 12*

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**AP MUSIC THEORY**  
64A1  CREDIT 1.0

AP Music Theory develops a student’s ability to recognize, understand and describe the basic materials and processes of music that are heard or presented in a score. The achievement of this goal is promoted by integrated approaches to the student’s development of aural, sight-singing, written, analytic and compositional skills.

*Prerequisite: Music Theory or Teacher Recommendation.*  
*Grade Level: 10, 11, 12*
Science Department

The North Hills High School Science curriculum offers students a variety of opportunities for learning and exploration in the areas of earth and space science, biology, chemistry and physics. Additionally, several electives and advanced courses are available to students with strong interest in the sciences and a desire to prepare for a career in a science or science-related career or course of study following graduation. All students must complete, at minimum, 3.0 credits of science prior to graduation.

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BIOLOGY</strong></td>
<td>4110</td>
<td>1.0</td>
</tr>
<tr>
<td>Biology examines patterns of life through the integrated study of biochemistry, cell theory, genetics, evolution, biodiversity and ecology. Emphasis will be placed on the Pennsylvania Keystone Anchors which will be tested on the Keystone Biology exam. The Keystone exam is a state mandated assessment for all students and will occur at the conclusion of the student's blocked Biology course. Per the Pennsylvania Department of Education, students must pass the Biology Keystone exam to graduate.</td>
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</tr>
<tr>
<td><strong>HONORS BIOLOGY</strong></td>
<td>41P1</td>
<td>1.0</td>
</tr>
<tr>
<td>Honors Biology relies heavily on laboratory and critical thinking skills. High expectations for student achievement will be emphasized in the areas of experimentation, reading and writing components to enhance proficiency in the integrated study of biochemistry, cell theory, genetics, evolution, biodiversity and ecology. The Pennsylvania Academic Standards for Science and Technology and selected standards of the Pennsylvania Keystone Anchors will be stressed. The Keystone Exam is the state, mandated assessment for all tenth graders and will occur at the conclusion of the student’s blocked Honors Biology course.</td>
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</tr>
<tr>
<td><strong>PRINCIPLES OF BIOMEDICAL SCIENCE</strong></td>
<td>4111</td>
<td>1.0</td>
</tr>
<tr>
<td>In the introductory course of the Project Lead the Way Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person’s life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.</td>
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<tr>
<td><strong>AP BIOLOGY</strong></td>
<td>41A1</td>
<td>1.0</td>
</tr>
<tr>
<td>AP Biology is designed to meet the objectives of a university course for biology majors. The two main goals of AP Biology are to help students develop a conceptual framework for modern biology and an appreciation of science as a process. The ongoing knowledge explosion in biology makes these goals quite challenging. Primary emphasis in this course is in developing an understanding of concepts rather than on memorizing terms and technical details. Essential to this conceptual understanding are a grasp of science as a process rather than as an accumulation of facts; personal experience in scientific inquiry; recognition of unifying themes that integrate the major topics of biology; and application of biological knowledge and critical thinking to environmental and social concerns. A strong laboratory component complements classroom activities.</td>
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<tr>
<td><strong>CONCEPTUAL CHEMISTRY</strong></td>
<td>42T1</td>
<td>1.0</td>
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<tr>
<td>The Conceptual Chemistry program aims to develop a basic understanding of chemistry, problem-solving and critical-thinking skills related to chemistry, apply chemistry knowledge to decision-making about scientific issues, recognize the importance of chemistry in daily life, and understand the benefits as well as the limitations of science and technology. Emphasis will be placed on the Pennsylvania Science and Technology standards.</td>
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<tr>
<td><strong>CHEMISTRY</strong></td>
<td>4210</td>
<td>1.0</td>
</tr>
<tr>
<td>This activity-centered chemistry course emphasizes laboratory experiences and the applications of chemistry. The course is designed for college-bound students who may not be interested in pursuing a college major in the sciences or engineering. Emphasis will be placed on the Pennsylvania Science and Technology standards.</td>
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</tr>
<tr>
<td><strong>HONORS CHEMISTRY</strong></td>
<td>42P1</td>
<td>1.0</td>
</tr>
<tr>
<td>This course examines the theoretical view of the structure and composition of matter. Emphasis is placed on problem solving skills and an integrated laboratory program that will prepare students for college-level science courses. Students who successfully</td>
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</table>
complete this course will have access to experiences beyond the benchmarks of the chemistry section of the Pennsylvania Science and Technology standards.

**Prerequisite:** Concurrently enrolled in Honors Algebra 2 or higher honors level mathematics  
**Grade Level:** 10

### CHS CHEMISTRY (COLLEGE CONNECTIONS) 42C1 CREDIT 3.0

The College Connections program is an accelerated program for 10th grade students principally designed to cultivate the habits of mind and academic skills necessary to succeed in Advanced Placement and college-level courses. Students selecting College Connections must simultaneously enroll in AP World History and CHS Chemistry. As a result, students may earn up to 4 university level credits for the course Chemistry 0110 from the university of Pittsburgh and may be recommended for college level credits through the College Board in World History.

College Connections students will concurrently be registered in a 1.0 credit Honors Interdisciplinary Studies (Hon. CIS), which meets weekly throughout the school year in conjunction with AP World History and CHS Chemistry creating a three period block. This block is designed to provide flexible and efficient use of time, and opportunities for students to strengthen skills in problem solving, understanding and interpreting information, constructing and evaluating arguments, assessing issues of change and continuity over time, and understanding diversity of interpretations through analysis of context, point of view and frame of reference. Successful completion of the final assessment in Honors CIS will satisfy the credit requirement for that portion of the program.

**Prerequisite:** Honors Biology and concurrently enrolled in AP World History and Honors Algebra 2 or higher.  
**Grade Level:** 10

### CHS CHEMISTRY 2 42C2 CREDIT 1.0

Offered in cooperation with the University of Pittsburgh, CHS Chemistry provides the opportunity for students who have successfully completed chemistry 414 to earn 4 college credits for Chemistry 0110, the first half of Pitt’s two-term introduction to general inorganic chemistry course. To earn university credit, each student must successfully perform five on-site laboratory experiments, and earn an average grade of ‘C’ or better on three quarter examinations and a final examination, all of which are designed and evaluated by a university professor. Students electing this course must register with the University of Pittsburgh. The cost of tuition and laboratory fees MUST be submitted to the University of Pittsburgh PRIOR to the first on campus laboratory session. This course could satisfy the chemistry requirement toward acceptance into an accredited nursing program.

**Prerequisite:** Completion of Chemistry with a C or better and concurrently enrolled in Honors Algebra 2 or higher Honors level math course. Students who have taken Honors Chemistry or Connections are not eligible  
**Grade Level:** 10

### AP CHEMISTRY 42A1 CREDIT 1.0

The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first college year. Students in AP Chemistry attain a depth of understanding of fundamentals with emphasis on chemical calculations and the mathematical formulation of chemical principles. The course contributes to the development of students' abilities to think clearly and to express their ideas, orally and in writing, with clarity and logic. AP Chemistry differs qualitatively from the Honors and CHS Chemistry courses with respect to the topics covered the emphasis on chemical calculations and the mathematical formulation of principles, and the kind of laboratory work done by students. Quantitative differences appear in the number of topics treated, the time spent on the course by students, and the nature and the variety of experiments done in the laboratory.

**Prerequisite:** Honors or CHS Chemistry with a C or higher and concurrently enrolled in or completion of AP Physics with a C or higher; or completion of Honors Physics with a C or higher  
**Grade Level:** 11, 12

**NOTE:** This course may require summer reading and related assignments.

### CONCEPTUAL PHYSICS 4305 CREDIT 0.5

Conceptual Physics will provide an overview of introductory physics, focusing on conceptual understanding and critical thinking. Emphasis will be placed on the Pennsylvania Science and Technology standards.

**Prerequisite:**  
Successful completion of Chemistry  
Concurrently enrolled in Algebra 2 or higher mathematics  
**Grade Level:** 11, 12

### PHYSICS 4310 CREDIT 1.0

Physics will provide significant laboratory and hands-on experiences for students enabling them to connect theoretical principles to real-life situations. This course is devoted to learning and practicing problem-solving techniques and relating these concepts to the mathematics of physics. Emphasis will be placed on the Pennsylvania Science and Technology standards.

**Prerequisite:**  
Chemistry C or better  
Concurrently enrolled in Algebra 2 or higher Mathematics.  
**Grade Level:** 11, 12
HONORS PHYSICS

Honors Physics takes a mathematical approach with emphasis on the fundamental nature of physics and is geared towards those students wishing to pursue Engineering and related fields. This course will provide an introduction to Mechanics, Electricity, Magnetism, and Light concepts. Prospective students must have a strong background in Algebra and Geometry, they must be good problem solvers with the ability to interpret and connect data to theoretical concepts using mathematics. Emphasis will be placed on the Pennsylvania Science and Technology standards.

Prerequisite: Chemistry with B or Higher, or concurrently enrolled in Honors Chemistry, CHS Chemistry or AP Chemistry. Concurrently enrolled in Trigonometry or higher Mathematics

Grade 11, 12

AP PHYSICS 1

AP Physics 1 is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound, and introductory simple circuits. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. This course requires that 25% of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the scientific practices.

Prerequisite: Teacher Recommendation

Grade Level: 10, 11, 12

AP PHYSICS 2

AP Physics 2 is an algebra-based, introductory college-level physics course that explores topics such as fluid statics and dynamics; thermodynamics with kinetic theory; PV diagrams and probability; electrostatics; electrical circuits with capacitors; magnetic fields; electromagnetism; physical and geometric optics; and quantum, atomic, and nuclear physics. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. This course requires that 25% of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the scientific practices.

Prerequisite: Teacher Recommendation

Grade Level: 10, 11, 12

AP PHYSICS C

For students planning to specialize in a physical science (chemistry or physics) or engineering, most colleges require an introductory physics sequence that includes courses equivalent to AP Physics C. There are actually two AP Physics C courses: Mechanics, and Electricity and Magnetism. Both courses are taught over the course of the year, with approximately equal time given to each. Mechanics provides instruction in each of the following six content areas: kinematics; Newton's laws of motion; work, energy and power; systems of particles and linear momentum; circular motion and rotation; and oscillations and gravitation. Electricity and Magnetism provides instruction in each of the following five content areas: electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. These courses utilize guided inquiry and student-centered learning to foster the development of critical thinking skills. Because introductory differential and integral calculus is used throughout the AP Physics C course, students enrolled in AP Physics C should be concurrently enrolled in AP Calculus AB or AP Calculus BC. It should be noted that although fewer topics are covered in AP Physics C than in AP Physics B, they are covered in greater depth and with greater analytical and mathematical sophistication.

Prerequisite: Teacher recommendation

Grade Level: 11, 12

CHS ANATOMY & PHYSIOLOGY 1

This course is designed for students who have a strong interest in learning about the human body and/or are considering careers in the medical profession. Offered in cooperation with Carlow University, students electing this course will examine the anatomy and physiology of the support and control systems of the human body: integumentary, skeletal, muscular, and nervous. Carlow University will award 4 credits for Biology 201 to students who successfully complete this course. All students who elect this course must register with Carlow University. Anatomy and Physiology 1 students are responsible for the cost of tuition (assessed at a greatly reduced rate) and the purchase of their textbook. This course also includes one field experience in the cadaver lab at Carlow University and is blocked during the first or second semester.

Prerequisite: Biology, Chemistry

Grade Level: 11, 12

CHS ANATOMY & PHYSIOLOGY 2

Students who successfully complete CHS Anatomy and Physiology 1 may be interested in pursuing Anatomy and Physiology 2. Also offered in cooperation with Carlow University, students electing this course will examine systems concerned with maintenance of the human body: endocrine, cardiovascular, respiratory, digestive and urinary. The relationship between structure and function and the concept of homeostasis are emphasized. Attention is given to clinical correlation and application of basic anatomical and
physiological facts. Carlow University will award 4 credits for Biology 202 to students who successfully complete this course. All students who elect this course must register with Carlow University. Anatomy and Physiology 2 students are also responsible for the cost of tuition (assessed at a greatly reduced rate). This course also includes one field experience in the cadaver lab at Carlow University and is blocked during the second semester.

Prerequisite: CHS Anatomy & Physiology 1.
Grade Level: 11, 12

ENVIRONMENTAL SCIENCE 4405 CREDIT 0.5
One of the major goals of this course is to help students to understand and solve environmental problems. Students will study two main types of interactions between humans and the environment. One area of study focuses on how we use natural resources, such as water and plants. The other area of study focuses on how our actions alter our environment. To study these interactions, students will be required to gather and analyze information from many different disciplines. Emphasis will be placed on Pennsylvania Science and Technology standards for Earth Science and the Pennsylvania Environment and Ecology standards.

Prerequisite: CHS Anatomy & Physiology 1.
Grade Level: 11, 12

HONORS ENVIRONMENTAL SCIENCE 44P1 CREDIT 0.5
This course will focus on examining the human impact on our environment. Students will then be expected to apply critical thinking skills to problem-solve ways that our society can maintain a high quality of living in a sustainable manner. Areas of focus will include biodiversity, pollutant & ecosystems, aquatic ecosystems, global changes and energy resources. Students should have strong skills in reading, writing, biology, chemistry and math to support their experimentation, projects and field work. High expectations of achievement will be emphasized in order to prepare students for college-level science classes. The Pennsylvania Academic Standards for Science and Technology and selected standards of the Pennsylvania Academic Standards for Environment and Ecology will be stressed.

Prerequisite: Honors Biology or a “B” or higher in Biology and Chemistry.
Grade Level: 10, 11, 12

AP ENVIRONMENTAL SCIENCE 44A1 CREDIT 1.0
The AP Environmental Science course is designed to be the equivalent of a one-semester, introductory college course. The goal of the course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Experiences both in the laboratory and in the field provide students with important opportunities to test concepts and principles that are introduced in the classroom, explore specific problems with a depth not easily achieved otherwise, and gain an awareness of the importance of confounding variables that exist in the real world.

Prerequisite: Honors Biology and Honors/CHS Chemistry (or an “A” in Biology & Chemistry.
Honors Environmental Science preferred but not required.
Grade Level: 11, 12
NOTE: This course may require summer reading and related assignments.

ASTRONOMY 4610 CREDIT 0.5
This one semester course provides the opportunity to develop knowledge and understanding about the solar system, galaxy, and universe in which we live. Much attention is given to an appreciation for how we have obtained this information about the universe. Students will also learn to explain the movements of celestial objects through use of the planetarium. Areas of study include: the process of science, including use of the tools used to observe the sky; stellar astronomy and how stars change over time; and planetary astronomy and how interstellar spacecraft are obtaining information about other bodies in the solar system.

Grade Level: 9-12

FORENSIC SCIENCE 4615 CREDIT 0.5
In this “CSI: North Hills” course, students will learn about and practice skills that would be useful to an investigator, such as making sharp observations and doing simple tests with materials from simulated crimes. Students will be solving case studies with background from practice laboratory exercises including fingerprinting, forensic anthropology, and blood spatter. A high degree of chemistry or physics knowledge is not necessary; a willingness to observe and analyze is necessary.

Prerequisite: Biology & Chemistry or Conceptual Chemistry.
Grade Level: 11, 12
The North Hills Social Studies Curriculum offers students a variety of opportunities for learning. History, culture, social science, economics, geography, law, and government are presented across the curriculum. Eleventh grade students are encouraged to select a semester course in addition to their required coursework, Contemporary History.

**AMERICAN STUDIES** 2110 CREDIT 1.0
American Studies includes the second part of a two part chronological survey of the history and culture of the United States. The major goal of this course is to acquaint students with the major characters, events, trends, concepts, and themes running from Westward Expansion following the Civil War through the beginning of the Cold War.

*Grade Level: 9*

**HONORS AMERICAN STUDIES** 21P1 CREDIT 1.0
American Studies includes the second part of a two-part chronological survey of the history and culture of the United States. The major goal of this course is to acquaint students with the major characters, events, trends, concepts, and themes running from Westward Expansion following the Civil War through the beginning of the Cold War. The honors level employs more sophisticated materials and places higher expectations on the student for mastery of skill development. Furthermore, this course incorporates strategies to improve higher level thinking skills, demonstrated through extensive reading and writing activities.

*Prerequisite: Grade of "B-" or higher in 8th grade Social Studies.*

*Grade Level: 9*

**WORLD HISTORY** 2210 CREDIT 1.0
This survey of World History from 1500 to 1945 emphasizes European history. World History integrates a chronological approach with investigations of selected trends in European history and examines their relationship to various cultures of the world. This course stresses the development of critical thinking, research and other social studies skills.

*Prerequisite: American Studies.*

*Grade Level: 9*

**HONORS WORLD HISTORY** 22P1 CREDIT 1.0
This course is a comprehensive study of world history. Relationships are studied, rather than a composite of isolated nations and civilizations. Emphasis is placed on major characters, events, trends, concepts, and the chronological framework of World/European history. This course stresses the development of critical thinking, research, and other social studies skills.

*Prerequisite: Honors American Studies with a "B-" or higher.*

*Grade Level: 10*

**AP WORLD HISTORY** 22A1 CREDIT 1.0
AP World History is open to sophomores who are enrolled in the College Connections program. Students will develop a deeper understanding of the evolution of global processes and contacts in interaction with various human societies. A combination of factual knowledge and analytical skills will contribute to this understanding. Students enrolling in AP World History will automatically be enrolled in Honors Connections Integrated Studies to complete enrollment in the Connections Program. See page 4 for additional details on the College Connections Program. Students enrolling in 22A1 must also register for 42C1, CHS Chemistry.

*Prerequisite: Honors American Studies with a B or higher and concurrently enrolled in CHS Chemistry.*

*Grade Level: 10*

**AMERICAN GOVERNMENT** 2310 CREDIT 1.0
American Government examines the structure, function, and operation of the national, state, and local governments in the United States and examines the roles, rights, and responsibilities of the individual in our society. Emphasis will be placed on the study of the legislative, executive, and judicial branches of the federal government.

*Prerequisite: World History.*

*Grade Level: 11*

**HONORS AMERICAN GOVERNMENT** 23P1 CREDIT 1.0
Honors American Government offers an extensive examination into the structure, function and operation of national, state, and local governments in the United States. This course examines the roles, rights, and responsibilities of the citizens in our society. Honors American Government provides students with an in-depth study of the legislative, executive, and judicial branches of the federal government.

*Prerequisite: Honors World History with a "B" or higher or AP World History*

*Grade Level: 11*
CONTEMPORARY HISTORY  24A0  CREDIT 0.5
Contemporary History examines the post-World War II period through the early 21st century and emphasizes American domestic history and foreign policy. Students will gain an understanding of major domestic movements and events, and the role of the United States in more complex world affairs.

Required if not taking an AP course
Grade Level: 12

Social Studies Electives

ELEVENTH GRADE: Students may choose any of the semester elective courses in addition to their required eleventh grade American Government or AP Social Studies courses.

TWELFTH GRADE: Students must be aware that FOUR Social Studies credits are required for graduation.

AP EUROPEAN HISTORY  25A2  CREDIT 1.0
This college level course offers an in-depth study of major themes in modern European history since 1450. AP European History is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the major issue in the European History. Students will learn to assess historical materials, their relevance to a given interpretive problem, their reliability, and their importance in weighing the evidence and interpretations presented in historical scholarship. This course will develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format. Juniors may choose this course in lieu of their 11th Grade American Government requirement and seniors enrolled in this course will be exempt from the Contemporary History requirement.

Senior Prerequisite: Any 11th Grade AP Social Studies course with a C- or higher or Honors American Government with a B- or higher.
Junior Prerequisite: AP World History with a C-or better or Honors World History with a B or higher

Grade Level: 11, 12

AP US GOVERNMENT & POLITICS  23A1  CREDIT 1.0
AP US Government and Politics offers a comprehensive analysis of the structure and functions of the American government with an emphasis on the institutions of government and policy processes. Juniors may choose this course in lieu of their 11th grade American Government requirement. Seniors who completed AP European or AP US History as juniors and enroll in this course will be exempt from the Contemporary History requirement. Seniors who completed American Government or Honors American Government, and enroll in this course, will be required to complete Contemporary History to meet the State requirements for History.

Senior Prerequisite: Any 11th Grade AP Social Studies course with a C- or higher or Honors American Government with a B- or higher.
Junior Prerequisite: AP World History with a C-or better or Honors World History with a B or higher.

Grade Level: 11, 12

AP US HISTORY  25A1  CREDIT 1.0
This college level course offers an in-depth study of the major forces at work in American history. AP US History is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the major issue in the United States History. Students will learn to assess historical materials, their relevance to a given interpretive problem, their reliability, and their importance in weighing the evidence and interpretations presented in historical scholarship. This course will develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format. Juniors may choose this course in lieu of their 11th grade American Government requirement and seniors enrolled in this course will be exempt from the Contemporary History requirement.

Senior Prerequisite: Any 11th Grade AP Social Studies course with a C- or higher or Honors American Government with a B- or higher.
Junior Prerequisite: AP World History with a C-or better or Honors World History with a B or higher.

Grade Level: 11, 12

ECONOMICS  26A0  CREDIT 0.5
Economics offers an overview of key economic issues including today's market place, management strategies, investment options, business cycles, monetary and fiscal policy, and global economic development. Economic simulations are utilized to allow practical application of major concepts. Current economic events are also covered on a regular basis.

Grade Level: 11, 12

LAW & JUSTICE  26A2  CREDIT 0.5
Law and Justice is an introduction to criminology. Students study the administration and complexity of the law as they examine their own rights and responsibilities. Emphasis is placed on Pennsylvania criminal law, criminal procedure, investigative techniques, the Bill of Rights, landmark Supreme Court decisions, corrections, juvenile law, and criminal defenses. Current events and famous criminal cases such as O. J. Simpson, Charles Manson, Jon Benet Ramsey, Jeffrey Dahmer, and others are used to enhance the learning experience.

Grade Level: 11, 12
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<th>Course</th>
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<th>Description</th>
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| **LAW & JUSTICE – CIVIL LAW**             | 2625 | 0.5    | Civil Law students will explore the various, real life and practical aspects of Civil Law. This course will emphasize the understanding and application of consumer law, such as warranties, major purchases, protecting your identity and many other topics related to your rights as a consumer. Students will also understand Family Law and each person’s rights pertaining to marriage, divorce and child custody. There is also a focus on individual rights when it comes to citizenship. Through classroom simulations, group and independent activities, discussion and debate many practical needs of students about to enter the "real world" will be met.  
*Grade Level: 11, 12*                                                                                     |
| **PA HISTORY & GOVERNMENT**               | 2615 | 0.5    | PA History and Government will focus on the history, structure, function and operation of government at the state and local level with special emphasis on Pennsylvania, Allegheny County, Pittsburgh, Ross Township, West View Borough, and the North Hills School District. Historical areas of study include Pennsylvania's Native Americans, the French and Indian War, PA's role in the American Revolution and Civil War, and the growth of business and industry in PA. Pittsburgh area historical figures and events are also major focuses of the course.  
*Grade Level: 11, 12*                                                                                     |
| **PSYCHOLOGY**                            | 2610 | 0.5    | Psychology is an introductory survey of the study of psychology with an emphasis on the practical application of research. It presents the views of the different schools of psychology and offers a basic look at the research on learning, the nervous system and the brain, the mind-body connection, emotion, motivation, altered states of consciousness, human growth and development, personality development, stress and conflict, mental disturbance, breakdown, and therapy.  
*Grade Level: 11, 12*                                                                                     |
| **CHS PSYCHOLOGY**                        | 26C1 | 0.5    | Offered in cooperation with Seton Hill University, students electing this course will introduce all the major areas of psychology, from its origins in the fusing of medicine and biology with philosophical questions about the nature of the human mind through the emphasis on psychology as the science of behavior. Included are such diverse topics as: mental health, stress and coping; consciousness, sleep and dreams; psychopathology and its various treatments, social psychology; emotion and motivation; memory; intelligence; language; hypnosis; types of learning; sensation and perception; and the relationship of the nervous system to thoughts, feelings and behaviors. Seton Hill will offer 3 credits upon successful completion of the course.  
*Prerequisite: Psychology. Grade Level: 11, 12*                                                           |
| **SOCIOLOGY**                             | 2605 | 0.5    | Sociology is an introductory survey of the study of sociology. This course emphasizes sociological methods used to collect data for research. Topics covered include: culture, socializing the individual, social structure in society, the study of groups and formal organizations, deviance, social stratification, the social institution of the family and social change. This course stresses the use of critical thinking skills in analyzing social problems in contemporary society by utilizing research results and evaluating solutions.  
*Grade Level: 11, 12*                                                                                     |
Technology Education Department

Technology Education classes are offered as electives. Courses are offered in a variety of introductory and advanced skill levels for students interested in furthering their knowledge and skills in a given area. Student work may be showcased annually at the District Arts Alive Festival held each spring.

**ENGINEERING DRAWING & DESIGN 1**

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Engineering Drawing and Design 1 is recommended for students who have a career interest in Computer-Aided Drafting, engineering, architecture, interior design, gaming and animation. Engineering Drawing and Design 1 will begin by exploring the fundamentals of mechanical drafting such as sketching, 2D drawings, 3D drawings, and dimensioning. The students will then progress to work with the latest version of the AutoCAD, Inventor, Revit, and 3D Max software to produce multi-view drawings, isometric drawings, 3D modeling, product designs, dream house floor plans, and city planning. Students will import their dream house into the Autodesk 3D Max program to complete a fully rendered animated tour. Use of the laser engraver and 3D printer will be explored.

*Grade Level: 9-12*

**ENGINEERING DRAWING & DESIGN 2**

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This course is recommended for the student that may have an interest in pursuing engineering as a career choice. Concepts, skills, and applications of the latest version of the AutoCAD software program will be explored. Students will draw several advanced mechanical and technical drawings. Using the laser engraver and 3D printer, the student will be required to brainstorm, engineer, design, and test at least one civil, mechanical, structural, electrical, aerospace, industrial, packaging, and manufacturing engineering product.

*Prerequisite: Engineering Drawing and Design 1*

*Grade Level: 10, 11, 12*

**ARCHITECTURAL DESIGN**

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This course is a computer aided drafting class that is recommended for students who have a definite interest in architecture or interior design. This course teaches various aspects of commercial and residential architectural design. Plot plans, elevations, construction details, floor plans, three dimensional building design, and model construction will all be explored. Students will use the latest version of the AutoCAD and Revit software programs. Multiple field trips will be offered so that the students may experience first hand the field of architectural design.

*Prerequisite: Engineering Drawing & Design 1 or Interior Design*

*Grade Level: 10, 11, 12*

**INTERIOR DESIGN**

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The Interior Design course is recommended for students that have an interest in interior design or architecture. Using the Revit architectural design software, students will spend the first 45 class periods designing a floor plan and 3D model of a small residential vacation home and a coffee shop. The student will then take their architectural designs to the F&CS classroom for the remaining 45 class periods to incorporate color, texture, fabric, style, furnishing, accessories, lighting, and paint in a way that reflects their own style, or the style of the clients. The course will also give the students the practical business and educational information they can use to start their own career.

*Grade Level: 9-12*

**PRODUCT DESIGN**

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This advanced engineering course will allow students the opportunity to work independently to research, design and create an advanced engineering project of their choice. The emphasis of this course is placed on conceptualizing, designing, and developing a capstone engineering project. Careers in different facets of engineering will be discussed and explored.

*Prerequisite: Drawing & Design 1*

*Grade Level: 11, 12*

**THE ART OF MAKING: HANDS ON SYSTEM DESIGN AND ENGINEERING**

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In the Art of Making course, students will explore user-centric design principles; low-resolution prototyping and experience prototyping; building-block technologies such as sensors, microcontrollers, actuators, displays and communication systems (wireless, Internet); ways to analyze and troubleshoot systems; the logistics of managing projects; how to work collaboratively in teams and how to communicate effectively via presentations, images, videos, posters and other media. Students will gain an introduction to "smart systems": automated systems that can sense the world and automatically respond in useful ways. We will also focus on the user interface: how to create control and display interfaces that enhance the ability to operate systems effectively and efficiently.

*Grade Level: 10, 11, 12*
### TRANSPORTATION DESIGN

6690  CREDIT 0.5

The Transportation Design course is a hands-on investigation of land and sea transportation systems. The students will design, construct and test both a high-speed CO2 powered and a low-speed mouse-trap powered vehicle, and a freight carrying boat hull. The students will research the advantages of aerodynamics while creating their designs. As in industry, the research and design process of sketching, drawing, prototyping and problem-solving will be followed.

*Grade Level: 9-12*

### 3D MODELING AND ANIMATION

6645  CREDIT 0.5

Learn the 3D modeling techniques used in movies, visual effects, video games, cartoons, commercials, and animation! Using 3DS Max, you will work in this highly skill-based art form to manipulate and sculpt pure imagination into substantial forms. By the end of the course, you will have developed a portfolio of original projects that you can use when applying for an internship, higher education, or a job.

*Grade Level: 9, 10, 11, 12*

### 3D GAME PROGRAMMING

6670  CREDIT 0.5

Are you ready to take your programming skills into the next dimension? Learn how to create dynamic Unity 3D games using the same industry standard developing engine as professionals. You will create two fully executable games that can be played on many platforms and added to your digital portfolio.

*Prerequisite: Evolution of Games*

*Grade Level: 10, 11, 12*

### WEB & MOBILE APP DESIGN

6648  CREDIT 1.0

Web & Mobile App Design is a project-based course that introduces students to graphic design for the web, web design, interactive animation, and mobile app design. During graphic design for the Web unit, students will use Adobe Photoshop, Adobe Illustrator, and Adobe Fireworks to create graphic designs for the web. During the web design unit, students will create compelling, usable websites applying the latest web standards and Adobe Dreamweaver. During the interactive animation unit, students will create a variety of interactive projects using Adobe Flash Professional and Adobe Edge Animate. During the mobile app design unit, students will be introduced to the fundamentals of mobile application development. Students will have the opportunity to create applications that use the accelerometer, touch and gesture events, as well as repurpose applications for mobile devices.

*Grade Level: 9, 10, 11, 12*

### CHS 2D GAME PROGRAMMING

66C3  CREDIT 1.0

In CHS 2D Game Programming, students will continue exploring programming concepts by building two-dimensional (2D) games. Students will also have the opportunity to incorporate the following game design principles: animated sprites, user interface, feedback, etc. Additionally students will learn advanced concepts including data structures, maps and dictionaries. Students who enroll in this course are eligible to earn 3 college credits at CCAC. Students will pay a nominal course fee and must earn a C or higher to receive the 3 college credits.

*Prerequisite: Mobile Game Design*

*Grade Level: 11, 12*

### EVOLUTION OF GAMES

6672  CREDIT 0.5

Today’s professional game designers understand and implement dynamics from many different types of games in their blockbuster hits. In this course, you’ll explore ancient cultures, their games, and how they designed games using available technology and resources. Find out more about the benefits game playing has within a society. You will prototype and play games, get hands-on experience creating your own original game.

*Grade Level: 9 - 12*

### GAME DESIGN

6673  CREDIT 0.5

“Gaming” doesn’t only mean “video games”. Gamers also play board games, card games, simulations, and participate in interactive stories. This course breaks down the design process step by step. You will learn the fundamentals through hands-on modeling, prototyping, and iteration of a variety of games. Your final project will include building, play testing, and revising your own original game that can be played with friends and added to your game portfolio.

*Prerequisite: Evolution of Games*

*Grade Level: 10-12*

### MOBILE GAME DESIGN

6674  CREDIT 0.5

It seems as if everyone has an idea for an “app” these days! In this course, you will use professional game design techniques to create playable mobile games that you can add to your game design portfolio. Using GameSalad, you will learn the fundamentals of
game balance, apply competition and playfulness, demonstrate a working knowledge of triangularity, and debug using iterative game design.

**GRAPHIC DESIGN**

This course is designed to give students an understanding of and practical application of Adobe Illustrator CC, basic Adobe Photoshop CC techniques, and the use of a screen printing press, and vinyl plotter. Adobe Illustrator CC is one of the most powerful Vector generating programs for professional desktop publishers and graphic designers. This process creates documents and clothing that look like professionally designed and printed products. Students will be assessed on many projects that include creating original T-shirt designs, vinyl decals, business cards, magazine covers, and designing and crafting effective promotional pieces and publications. In addition, students gain foundational knowledge of the processes behind screen-printing operations and design techniques. There is no prerequisite for this class and students do not need Graphic Design or computer/drawing skills to be successful.

**ROBOTICS & ENGINEERING**

Robotics Engineering is a course based on mechanical engineering and programming. While using curriculum from Carnegie Mellon University, the students will begin by learning how to read and write code to program robots in virtual 3 D worlds. The class will then progress on to construct their own mobile robot and program motors and sensors to complete several tasks in the robot arena. The final project will have the class divide into groups to build a flexible manufacturing system constructed of several robotic sub-systems. The students will also have the opportunity to fly and program and autonomous drone throughout the campus. Careers in Mechanical Engineering, Robotic Engineering, Electrical Engineering, Mechatronics Engineering, and Programming will be explored.

**ELECTRICITY & ELECTRONICS**

Electricity and electronics will be primarily concerned with the fundamentals of circuits, electronic components, and residential/commercial wiring. This course will provide hands-on experience with wiring switching, outlets, and fixtures. Electronics will also include identification, testing and application of circuit components including resistors, capacitors, transistors, and motors. Component soldering will be introduced.

**HOME MAINTENANCE**

The Home Maintenance course is recommended for students who have an interest in home maintenance and repair. It is designed primarily to meet the needs of students with little or no previous Technology Education experience. Home Maintenance covers basic house construction and use of hand and portable power tools for wood and other materials used in normal repairs. Classroom instruction is combined with hands-on experiences in performing tasks similar to those required in the home.

**CHS WELDING**

Offered in cooperation with the Community College of Allegheny County, the CHS Welding 101 Certificate is a program designed to recognize the basic welding skills covered in the Intro to Metal Technologies, Advanced Metal Technologies and Material Engineering courses. Through a curriculum based on theory, aptitude and safety procedures, students develop competency in the following shielded metal-arc welding procedures: stringer beads, butt welds, and T-joints in both the flat and horizontal positions. Students become familiar with oxy-fuel flame cutting equipment and its application. Upon successful completion of the coursework, students will have the option to seek an entry level welding certification accompanied by nine college level credits through the Community College of Allegheny County.

**INTRODUCTION TO METAL TECHNOLOGIES**

This course is designed to provide the student with a basic understanding in the use and care of both hand and power tools and equipment. This course is divided into the areas of metal technology, quality assessment, destructive/ nondestructive testing and manufacturing. These four areas include “hands-on” units in machine operation, sheet metal, metal spinning, foundry, forging, cold metal, electric welding, acetylene welding and machine shop practice. Additional units in industrial information, computerized numerical control and computerized manufacturing will be explored.
ADVANCED METAL TECHNOLOGIES  6610  CREDIT 1.0
Advanced Metal Technologies is designed to provide the students with advanced experiences in the hands-on units covered in the Metal 1 course. The students will complete required machine projects and a project of interest. The required project will be produced using machining skills at a high level. The instruction will cover welding and fabricating in addition to advanced metal working techniques and procedures.

Prerequisite: Into to Metal Technologies.
Grade Level: 9-12
Note: Course 2 of CHS Welding Program

MATERIAL ENGINEERING  6615  CREDIT 1.0
This course is designed to introduce different types of materials/metals manipulation, forming, and testing. Using the metal facilities, the students will be exposed but not limited to: machining, castings, welding, milling, materials testing, CNC machining, powder coating, and other types of material processing that is necessary in the engineering fields of study. This course is intended to give students who are considering a future in Manufacturing and Engineering a basis of metals and their properties, characteristics and tendencies.

Grade Level: 10, 11, 12
Note: Course 3 of CHS Welding Program

INTRODUCTION TO WOOD TECHNOLOGIES  6625  CREDIT 1.0
This course is an introduction to hand and power tool operation as related to the woodworking industry. Projects for the first nine weeks are introductory in nature and emphasize the use and techniques of hand tool and select power tool operation. Second nine weeks projects are designed to incorporate safety and the basic operation and application of major power tools.

Grade Level: 9-12

ADVANCED WOOD TECHNOLOGIES  6630  CREDIT 1.0
This advance woodworking course is a fundamental course in cabinetmaking. Emphases are placed on the student choosing his or her project design and completing its construction during the course. All woodworking machines and equipment are available for the construction of this major piece of furniture.

Prerequisite: Introduction to Wood Technologies.
Grade Level: 10, 11, 12
World Language programs will acquaint students with a culture, language and literature other than their own. They will also gain the skills necessary to communicate in another language. The learning of a world language can improve a student's knowledge base in the areas of vocabulary, grammar, listening and reading comprehension, both in English and the second language. Knowledge of other languages and cultures can play a vital part in a student’s preparation for the future in a global community. Many colleges require consecutive study of at least one world language as an entrance requirement, and some college majors will necessitate further study at the college level. Those students who choose can continue their study up through the College in High School level with possible college credit. All students will receive a solid foundation for future study.

**World Language Department**

**American Sign Language 1A**

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<tr>
<td>5550</td>
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American Sign Language (ASL) is a basic course designed for students to learn common signs, finger spelling, grammar and structure used in everyday conversation. Students will learn to use ASL receptively and expressively and be introduced to Deaf culture in America.

**Grade Level:** 9 - 12

**American Sign Language 1B**

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Students will expand their study of various aspects of Deaf culture and ASL communication skills in everyday interactions.

**Prerequisite:** American Sign Language 1A

**Grade Level:** 9 - 12

**CHS American Sign Language**

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<tbody>
<tr>
<td>551C</td>
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CHS ASL is offered in cooperation with the University of Pittsburgh. This course, which can be taken after successful completion of ASL 2, is a college offering. Students will use a college textbook and objectives to develop conversational, grammatical receptive and expressive competencies. Students who successfully complete this course have the option to purchase credits through the University of Pittsburgh for a nominal fee.

**Prerequisite:** ASL 1A, ASL 1B

**Grade Level:** 9 - 12

**World Language & Culture Enrichment**

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Students will augment the study of vocabulary and culture of their chosen World Language by exploring essential questions and researching cultural topics. Students will interact with authentic media sources and collaborate using the material.

**Prerequisite:** French 2, German 2 or Spanish 2.

**Grade Level:** 10, 11, 12

**French 1**

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Students will be introduced to various aspects of French culture and learn to communicate in simple everyday situations and in personal interactions. They will develop skills in listening, reading, writing, and speaking. This course is intended for students with limited or no prior knowledge of the language.

**Grade Level:** 9 - 12

**French 2**

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Students will continue to expand their study of various aspects of French culture and continue to expand communication skills in everyday situations and in personal interactions. They will continue to develop skills in listening, reading, writing, and speaking.

**Prerequisite:** French 1 with a “C” or higher.

**Grade Level:** 9 - 12

**French 3**

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Students will refine their study of various aspects of French culture and continue to expand communication skills in everyday situations and in personal interactions. They will continue to develop skills in listening, reading, writing, and speaking.

**Prerequisite:** French 2 with a “C” or higher.

**Grade Level:** 10, 11, 12

**Honors French 3**

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<td>51P1</td>
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Through rigorous study and a challenging pace, students will refine their study of various aspects of Hispanic culture and continue to expand communication skills in academic, everyday situations, and in personal interactions. They will continue to develop skills in listening, reading, writing, and speaking.

**Prerequisite:** French 2 with a “B” or higher. **Grade Level:** 9 - 12

**NOTE:** This course has summer assignments; students should collect the materials before they leave school for the summer.
**HONORS FRENCH 4**

Through rigorous study and a challenging pace, students will refine their study of various aspects of French culture and continue to expand communication skills in academic, everyday situations, and in personal interactions. They will continue to develop skills in listening, reading, writing, and speaking.

Prerequisite: French 3 with a "B" or higher and teacher recommendation or Honors French 3 with a "B+" or higher.

Grade Level: 11, 12

NOTE: This course has summer assignments; students should collect the materials before they leave school for the summer.

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**CHS FRENCH 1**

CHS French 1 is offered in cooperation with the University of Pittsburgh. This course, which can be taken in years 4 or 5 of the language, is an intermediate college course. Students will use a college-level textbook and objectives to communicatively develop conversational, grammatical, reading, listening, and vocabulary competencies. Students who successfully complete this course have the option to purchase credits through the University of Pittsburgh for a nominal fee.

Prerequisite: French 3, Honors French 3 or Honors French 4 with a "B" or higher.

Grade Level: 11 or 12

NOTE: This course has a summer assignments; students should collect the materials before they leave school for the summer.

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**CHS FRENCH 2**

CHS French 2 is offered in cooperation with the University of Pittsburgh. This course, which can be taken in the 5th year of the language, is an intermediate college level course. Students will use a college-level textbook and objectives to communicatively develop conversational, grammatical, reading, listening, and vocabulary competencies. Students who successfully complete this course have the option to purchase credits through the University of Pittsburgh for a nominal fee.

Prerequisite: CHS French 1 with a "B" or higher.

Grade Level: 12

NOTE: This course has a summer assignments; students should collect the materials before they leave school for the summer.

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**GERMAN 1**

Students will be introduced to various aspects of German culture and learn to communicate in simple everyday situations and in personal interactions. They will develop skills in listening, reading, writing, and speaking. This course is intended for students with limited or no prior knowledge of the language.

Grade Level: 9-12

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**GERMAN 2**

Students will continue to expand their study of various aspects of German culture and continue to expand communication skills in everyday situations and in personal interactions. They will continue to develop skills in listening, reading, writing, and speaking.

Prerequisite: German 1 with a "C" or higher.

Grade Level: 9-12

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**GERMAN 3**

Students will refine their study of various aspects of German culture and continue to expand communication skills in everyday situations and in personal interactions. They will continue to develop skills in listening, reading, writing, and speaking.

Prerequisite: German 2 with a "C" or higher.

Grade Level: 10, 11, 12

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**HONORS GERMAN 3**

Through rigorous study and a challenging pace, students will refine their study of various aspects of German culture and continue to expand communication skills in academic, everyday situations, and in personal interactions. They will continue to develop skills in listening, reading, writing, and speaking.

Prerequisite: German 2 with a "B" or higher.

Grade Level: 9-12

NOTE: This course has summer assignments; students should collect the materials before they leave school for the summer.

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**HONORS GERMAN 4**

Through rigorous study and a challenging pace, students will refine their study of various aspects of German culture and continue to expand communication skills in academic, everyday situations, and in personal interactions. They will continue to develop skills in listening, reading, writing, and speaking.

Prerequisite: German 3 with a "B" or higher and teacher recommendation or Honors German 3 with a "B+" or higher.

Grade Level: 11, 12

NOTE: This course has summer assignments; students should collect the materials before they leave school for the summer.
CHS GERMAN 1  

CHS German 1 is offered in cooperation with the University of Pittsburgh. This course, which can be taken in years 4 or 5 of the language, is an intermediate college course. Students will use a college-level textbook and objectives to communicatively develop conversational, grammatical, reading, listening, and vocabulary competencies. Students who successfully complete this course have the option to purchase credits through the University of Pittsburgh for a nominal fee.

Prerequisite: German 3, Honors German 3 or Honors German 4 with a "B" or higher.
Grade Level: 11 or 12

NOTE: This course has summer assignments; students should collect the materials before they leave school for the summer.

CHS GERMAN 2  

CHS German 2 is offered in cooperation with the University of Pittsburgh. This course, which can be taken in the 5th year of the language, is an intermediate college level course. Students will use a college-level textbook and objectives to communicatively develop conversational, grammatical, reading, listening, and vocabulary competencies. Students who successfully complete this course have the option to purchase credits through the University of Pittsburgh for a nominal fee.

Prerequisite: CHS German 1 with a "B" or higher.
Grade Level: 12

NOTE: This course has summer assignments; students should collect the materials before they leave school for the summer.

LATIN 1  

Students will be introduced to various aspects of the Latin language and Roman culture. They will develop skills in listening, reading, writing, and speaking. This course is intended for students with limited or no prior knowledge of the language.

Grade Level: 9-12

LATIN 2  

Students will continue to expand their study of various aspects of the Latin language and Roman culture. They will continue to develop skills in listening, reading, writing, and speaking.

Prerequisite: Latin 1 with a "C" or higher.
Grade Level: 9-12

LATIN 3  

Students will refine their study of various aspects of the Latin language and Roman culture they will continue to develop skills in listening, reading, writing, and speaking.

Prerequisite: Latin 2 with a "C" or higher.
Grade Level: 10, 11, 12

HONORS LATIN 3  

Through rigorous study and a challenging pace, students will refine their study of various aspects of the Latin language & Roman culture. They will continue to develop skills in listening, reading, writing, and speaking.

Prerequisite: Latin 2 with a "B" or higher. Grade Level: 9-12

NOTE: This course has summer assignments; students should collect the materials before they leave school for the summer.

HONORS LATIN 4  

Through rigorous study and a challenging pace, students will refine their study of various aspects of the Latin language & Roman culture. They will continue to develop skills in listening, reading, writing, and speaking.

Prerequisite: Latin 3 with a "B" or higher and teacher recommendation or Honors Latin 3 with a "B-" or higher.
Grade Level: 11, 12

NOTE: This course has summer assignments; students should collect the materials before they leave school for the summer.

CHS LATIN 1  

CHS Latin 1 is offered in cooperation with the University of Pittsburgh. This course, which can be taken in the 5th year of the language, is an intermediate college level course. Students will use a college-level textbook and objectives to communicatively develop conversational, grammatical, reading, listening, and vocabulary competencies. Students who successfully complete this course have the option to purchase credits through the University of Pittsburgh for a nominal fee.

Prerequisite: Honors Latin 4.
Grade Level: 12

NOTE: This course has summer assignments; students should collect the materials before they leave school for the summer.

SPANISH 1  

Students will be introduced to various aspects of Hispanic culture and learn to communicate in simple everyday situations and in personal interactions. They will develop skills in listening, reading, writing, and speaking. This course is intended for students with limited or no prior knowledge of the language.

Grade Level: 9-12
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<th>Course</th>
<th>Code</th>
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| **SPANISH 2**       | 5410 | 1.0    | Students will continue to expand their study of various aspects of Hispanic culture and continue to expand communication skills in everyday situations and in personal interactions. They will continue to develop skills in listening, reading, writing, and speaking.  
  Prerequisite: Spanish 1 with a "C" or higher.  
  Grade Level: 9-12 |
| **SPANISH 3**       | 5415 | 1.0    | Students will refine their study of various aspects of Hispanic culture and continue to expand communication skills in everyday situations and in personal interactions. They will continue to develop skills in listening, reading, writing, and speaking.  
  Prerequisite: Spanish 2 with a "C" or higher.  
  Grade Level: 9-12 |
| **HONORS SPANISH 3**| 54P3 | 1.0    | Through rigorous study and a challenging pace, students will refine their study of various aspects of Hispanic culture and continue to expand communication skills in academic, everyday situations, and in personal interactions. They will continue to develop skills in listening, reading, writing, and speaking.  
  Prerequisite: Spanish 2 with a "B" or higher.  
  Grade Level: 9-12  
  NOTE: This course has summer assignments; students should collect the materials before they leave school for the summer. |
| **HONORS SPANISH 4**| 54P4 | 1.0    | Through rigorous study and a challenging pace, students will refine their study of various aspects of Hispanic culture and continue to expand communication skills in academic, everyday situations, and in personal interactions. They will continue to develop skills in listening, reading, writing, and speaking.  
  Prerequisite: Spanish 3 with a "B" or higher and teacher recommendation or Pre-AP Spanish 3 with a "B-" or higher.  
  Grade Level: 11, 12  
  NOTE: This course has summer assignments; students should collect the materials before they leave school for the summer. |
| **CHS SPANISH 1**   | 54C2 | 1.0    | CHS 1 is offered in cooperation with the University of Pittsburgh. This course, which can be taken in years 4 or 5 of the language, is an intermediate college level course. Students will use a college-level textbook and objectives to communicatively develop conversational, grammatical, reading, listening, and vocabulary competencies. Students who successfully complete this course have the option to purchase credits through the University of Pittsburgh for a nominal fee.  
  Prerequisite: Spanish 3, Honors Spanish 3 or Honors Spanish 4 with a "B" or higher.  
  Grade Level: 11, 12  
  NOTE: This course has summer assignments; students should collect the materials before they leave school for the summer. |
| **CHS SPANISH 2**   | 54A1 | 1.0    | CHS Spanish 2 is offered in cooperation with the University of Pittsburgh. This course, which can be taken in the 5th year of the language, is an intermediate college level course. Students will use a college-level textbook and objectives to communicatively develop conversational, grammatical, reading, listening, and vocabulary competencies. Students who successfully complete this course have the option to purchase credits through the University of Pittsburgh for a nominal fee.  
  Prerequisite: Pre-AP Spanish 4 with a "B" or higher.  
  Grade Level: 12  
  NOTE: This course has summer assignments; students should collect the materials before they leave school for the summer. |
A.W. Beattie Career Center

North Hills High School, in conjunction with A.W. Beattie Career Center, offers students an opportunity to prepare for their chosen career field through advanced career and college preparation during their 10th, 11th and 12th grade years. These courses are designed to equip students to transition directly into the workforce or prepare them for appropriate continuing education related to a chosen occupation. Students selecting to attend A.W. Beattie Career Center receive instruction toward 1.5 elective credits per semester (3.0 per year) and attend the high school for their remaining graduation requirements. Completed applications, including a parent or guardian’s signature, are required for Beattie enrollment and should be turned in with student course selection sheets. Students can obtain A.W. Beattie Career Center brochures, detailed course descriptions, and applications in the Counseling Resource Center. Students may be eligible to receive math and science credits by attending A.W. Beattie.

Students attending A. W. Beattie Career Center are scheduled to attend the morning session. Students may elect to attend the afternoon schedule; however, students electing the afternoon schedule must provide their own transportation. Students attending the afternoon session have the opportunity to take more coursework in the morning at North Hills High School. A. W. Beattie Career Center credits and grades are included in the QPA and class rank. A number of A. W. Beattie’s programs require uniforms and equipment. The student and parents assume this cost. Therefore, students should obtain accurate cost information before enrolling for a course. Transportation is provided by the School District.

A.W. Beattie Career Center Programs are approved Programs of Study (POS) providing for seamless transition to post-secondary education through rigorous content aligned with challenging academic and relevant career context in a non-duplicative progression of courses aligned to post-secondary education. SOAR is a Pennsylvania program which allows CTE students to earn free college credits. Students earn free credits with a qualifying score from the NOCTI Senior year assessment and confirmation that they have completed the entire CTE program of study. To obtain these free credits, students must submit the proper paperwork to the college, as outlined below. This paperwork requires CTE administrative signatures for submittal. All A. W. Beattie Career Center Programs offer advanced college credit upon successful completion. Potential college credits range from three to twenty-two credits.

SEE WHICH COLLEGES OFFER FREE CREDITS FOR YOUR CTE PROGRAM OF STUDY (POS)

To determine the free credits offered for Pennsylvania Career and Technical Educational Programs of Study (POS), visit the website http://www.collegetransfer.net/. After selecting your Program of Study and your high school graduation year, you can view all of the colleges offering free credits for your particular CTE program. Additionally, A.W. Beattie Career Center maintains many college credits articulation agreements with two and four year post-secondary institutions, please visit our website www.beattietech.com for additional information.

Course Offerings —

- Advanced Computer Programming
- Advertising Design
- Automotive Collision Technology
- Automotive Technology
- Carpentry/Building Construction
- Computer Systems, Networks and Cyber Security
  - Network Engineering and Cyber Security
  - Computer Systems Technology
- Cosmetology
- Culinary Arts
- Dental Careers
- Early Childhood Education
- EDAM/Robotics
- Emergency Response Technology
- Health and Nursing Services
- Heating, Ventilating and Air-Conditioning Technology
- Mandarin Chinese (via distance learning)
- Pastry Arts
- Pharmacy Operations (12th Grade Only)
- Sports Medicine - Rehab Therapy and Exercise Sciences Technology
- Veterinary Science Technology

ADVANCED COMPUTER PROGRAMMING  

A.W. Beattie Career Center is proud to be one of the few schools nationwide authorized to offer Advanced Computer Programming. Students learn the latest database and Internet technologies utilized by industry leaders to create a dynamic presence on the World Wide Web. Advanced Computer Programming students learn how to design and create Internet databases; develop programs in JAVA, and C# that is endorsed by the World Organization of Webmasters, along with integrating databases into Webpages using SQL. Students also develop data modeling, project management, problem-solving, and communication skills. This direct partnership provides students with the necessary skills to jumpstart their career in the high paced world of Internet technology. Students pursuing post-secondary education will have acquired hands-on experience with the latest technologies, providing an expanded foundation for their continued educational success.
The Advertising Design program at A. W. Beattie Career Center focuses on a wide variety of professional art related fields, including: Digital Graphic Design, Multimedia, Digital Photography, and Web Design. Students will train in a dual-platform (Mac and PC) environment using the latest in professional graphic design software and equipment, such as: Adobe Photoshop CS5.5, Adobe Illustrator CS5.5, Adobe Premiere Pro, Adobe Dreamweaver CS5.5, and many others. Achieve advanced standing at local colleges or universities by utilizing college credits you can earn while you are an Advertising Design student working towards your Adobe Certified Associate Certificate in our customized designed studio.

**ENGINEERING AGILE ROBOTICS/ADVANCED MANUFACTURING**

Students interested in the most recent, innovative technology have a unique opportunity for training in the cutting-edge Advanced Manufacturing Industry. Through a partnership with The Technology Collaborative and California University of Pennsylvania, along with guidance and support from Carnegie Mellon University, students will study Robotics and Manufacturing using curriculum developed through the National Robotics Education Center and related industries. Students will move through a series of introductory activities into more advanced design and control challenges, using the same state-of-the-art equipment as California University. Students will study robotics technology case studies and participate in hands-on lab experiences. Students will be using the FANUC Robotic Arm and the Denford CNC Milling Machine in conjunction with conveyor systems, motion control, 3-D modeling and printing for product production. Students can earn up to 17 credits at A. W. Beattie Career Center for use in continuing their education at California University. Because the application of robotics systems is beneficial to many industries, there are numerous employment opportunities for Robotics Technicians in the Pittsburgh area, as well as nationally. Students also participate in FIRST Robotics Team Competition.

**AUTOMOTIVE COLLISION REPAIR**

Auto Body Repair trains students in all aspects of the industry including MIG welding, computerized paint mixing, and spraying techniques. Using the latest technology in our fully equipped auto shop keeps students up-to-date with current standards. The Auto Body Repair program utilizes the nationally recognized ICAR curriculum. Students earn their SP2 industry Safety Certification leading to enhanced employment opportunities. Cooperative education experiences in local area dealerships provide authentic educational experiences. The Auto Body Program is certified by NATEF (National Automotive Technicians Education Foundation) ensuring that the Career Center meets strict education and industry standards.

**AUTOMOTIVE TECHNOLOGY**

The NATEF (National Automotive Technicians Education Foundation) certified Automotive Technology program at A. W. Beattie Career Center meets strict standards, providing students with hands-on experience using up-to-date diagnostic equipment in our state-of-the-art auto shop. Students learn all aspects of the trade, as well as participating Automotive Technology is an AYES (Automotive Youth Education Systems) training facility, providing students during their senior year, with work experience in local area dealerships, allowing for those important career connections. NATEF and AYES certifications assure students the best training and preparation to complete their ASE (Automotive Service Excellence) certification in less time, upon graduation. Students will have the opportunity to earn their PA Safety and Emissions Inspection credentials.

**CARPENTRY/BUILDING CONSTRUCTION**

The use of hand and power tools, blueprint reading, framing, finishing, roofing, drywall, and insulation are taught through hands-on experience in the Carpentry/Building Construction program. Students have the opportunity to learn skills in the carpentry, masonry, plumbing, and electrical fields. BAMP activities and competitions, as well as community projects challenge students during the year, preparing them for immediate employment. Students have the opportunity to experience live work by taking part in the ongoing project of building a modular home. Students will gain educational experiences with industrial rigging, scissors lift operations, and forklift training. Students will have the opportunity to earn their OSHA-10 Safety Certification and PA Builder’s Certificate.

**COMPUTER SYSTEMS, NETWORK ENGINEERING & CYBER SECURITY**

In this integrated dual learning pathway students will have the opportunity to explore and develop their interest in two of the most sought after skill sets in the computer field; Network Engineering and Cyber Security and/or Computer Systems Technology. Building, maintaining and troubleshooting computers and peripherals is part of the curriculum. Students will learn the basics of networking, build and create virtual servers, and they will also set up and maintain Internet client services. Students participate in the Cisco approved IT Essentials course through the Cisco Networking Academy. The curriculum builds upon itself to create a pathway for students to participate in the next step of the curriculum with Networking and Cyber Security. Students will be able to test for the CISCO Certified Networking Associates Certification.
## COSMETOLOGY
**AW16 CREDIT 3.0**

In Cosmetology, the Beattie Salon provides qualified Cosmetology students with the opportunity to use their energy, skills, and imagination on clients from the community, in a state-of-the-art Cosmetology Salon. Students will study care of hair, nails, and skin. They will learn the proper use of cosmetology tools and equipment, as well as techniques in hair cutting, styling, coloring, permanent waving, and relaxing, manicuring, pedicuring, and skin care. Students will also focus on professionalism and customer relations, while preparing to test for their Pennsylvania State Cosmetologist License.

## CULINARY ARTS
**AW18 CREDIT 3.0**

The Culinary Arts Department has built a solid reputation as one of the finest programs throughout the State. The Beattie Dining Room, given a three star rating by the Pittsburgh Press, serves breakfast and lunch to more than 150 people a day! Located in the Dining Room, the Bake Shop sells cookies, brownies, pies, cakes, and various pastries. Students learn all aspects of the restaurant business from meal planning, food preparation, baking and carving, top dining room management, and banquet serving. There are many job opportunities within the always growing Culinary Industry as well as scholarships for students provided by prestigious culinary colleges. Students practice their craft in a commercially equipped kitchen and bakery while earning their ServSafe Food Safety Certification.

## DENTAL CAREERS
**AW20 CREDIT 3.0**

In Dental Careers students learn the necessary skills for employment in Dental Assisting, Lab Technician, Infections Control Assistant, and many more opportunities within the Dental Industry. Seniors participate in hands-on work experiences in dental offices learning and assisting in four-handed dentistry, chair-side assisting, administrative skills, and other techniques. Students will prepare to test for their PA Radiological Certification on the Career Centers state of the art Digital X-Ray System. Upon successful program completion and two years of employment, students will be eligible for their Dental Assisting National Board exam.

## EARLY CHILDHOOD EDUCATION
**AW22 CREDIT 3.0**

Students enrolled in Early Childhood Education experience the opportunity to apply their child development and teaching skills in a variety of settings. In addition to a variety of classroom activities, students learn the industry standards for hands-on activities with infants, toddlers, and preschool age children. Students present a series of learning and development activities in a variety of facilities, practicing and refining their creative teaching skills, as well as learning the basics in caring for and managing children. Students will participate in the Childhood Development Association (CDA) Ready Certification. Additionally, students will have the opportunity to be certified in First-Aid and CPR as part of their classroom curriculum. Our ECE students are actively engaged with a number of community based activities through the local libraries and Junior Achievement of Southwest Pennsylvania.

## EDAM/ROBOTICS
**SEE YOUR COUNSELOR CREDIT 3.0**

**EDAM / Robotics** students interested in the most recent, innovative technology have a unique opportunity for training in the cutting-edge Advanced Manufacturing Industry. Through a partnership with The Technology Collaborative and California University of Pennsylvania, along with guidance and support from Carnegie Mellon University, students will study Robotics and Manufacturing using curriculum developed through the National Robotics Education Center and related industries. Students will move through a series of introductory activities into more advanced design and control challenges, using the same state-of-the-art equipment as California University. Students will study robotics technology case studies and participate in hands-on lab experiences. Students will be using the FANUC Robotic Arm and the Denford CNC Milling Machine in conjunction with conveyor systems, motion control, 3-D modeling and printing for product production. Students may earn up to 20 credits at A. W. Beattie Career Center for use in continuing their education at California University of Pennsylvania. Because the application of robotics systems is beneficial to many industries, there are numerous employment opportunities for Robotics Technicians in the Pittsburgh area, as well as nationally. Students may also participate on the FIRST Robotics Competition Team.

## EMERGENCY RESPONSE TECHNOLOGY
**AW24 CREDIT 3.0**

This course challenges students with exciting hands-on training in a fully equipped on-site lab, as well as field trips to the local Police and Fire Academies, throughout the school year. Students study several technical fields including police science, fire science, rescue operations, hazardous materials, and emergency medical services. Certification as an Emergency Medical Technician (EMT) at A. W. Beattie Career Center will prepare students for immediate employment in the growing Emergency Response Industry.

## HEALTH AND NURSING SCIENCES
**AW26 CREDIT 3.0**

This course will show students that today's medical field is rapidly growing and changing. There's never been a better time to pursue a career in the Health Industry. The core curriculum will prepare students for entry level positions, such as Medical Assisting, Nurse Assisting and Patient Care Technician. For those students that have an interest in becoming a Nurse, Radiology Technician, or related positions, this program will prepare them for post-secondary education. During the course of study, students may have
the opportunity to gain valuable hands-on clinical experience in hospitals, nursing homes, physical therapy clinics, and private offices where they will practice and perfect their skills, preparing them for an exciting and rewarding career in healthcare. Pennsylvania Nurse Aide Certification is available to students who successful complete their clinical rotation and state exam either for A.W. Beattie or an industry partner facility. Students have an opportunity to participate in a dual enrollment opportunity through CCAC as part of this program for college credits.

### HEATING, VENTILATING & AIR-CONDITIONING

**AW28 CREDIT 3.0**

This is a course that trains students with the necessary skills to become qualified technicians and mechanics. Students learn heating installation and service, air-conditioning installation and service, plumbing, electrical wiring, refrigeration, and sheet metal fabrication. Students will put these skills into use when they participate in the plumbing, ventilating, and wiring of the Beattie modular home. They also test for their EPA certification and OSHA-10 Safety Certification at A. W. Beattie Career Center, helping to ensure immediate employment opportunities along with post-secondary opportunities. In addition, students will gain experience with industrial rigging, scissors lift operation, and forklift training.

### PASTRY ARTS

**AW32 CREDIT 3.0**

This course provides students with an opportunity to learn all functions of a commercial bakery while perfecting their creative pastry skills. Students keep the bakery cases, located in the Beattie Dining Room stocked full of cakes, cookies, pies, brownies, breakfast pastries, and a variety of specialty breads and rolls. Students receive quality training in our fully equipped Pastry Arts lab learning everything from baked goods preparation to merchandising, and dining room service. There are classroom demonstrations from industry professionals throughout the school year, as well as field trips to local bakeries and restaurants. Students will prepare special orders for holidays, weddings, and special events throughout the year. Students have the opportunity to earn their ServSafe Food Safety Certification.

### INTRODUCTION TO PHARMACY

**AW34 CREDIT 3.0**

Pharmacy Technicians and Pharmacists employment openings are projected to grow at a rate of twenty-five to thirty-two percent over the next ten years. Positions exist in the public and private sector making this exciting career a sound desirable career choice. Students will experience an interactive learning environment; experimenting on state of the art equipment. Students will learn firsthand the skills needed to process patient medication orders. Students will be prepared to move into advanced postsecondary studies or test for entry level employment. The potential is endless in our ever changing society.

### SPORTS MEDICINE – REHAB THERAPY AND EXERCISE SCIENCE TECHNOLOGY

**AW36 CREDIT 3.0**

The SMART-EST program is designed for students that are looking towards the fields of: physical therapy, occupational therapy, physical rehabilitation, exercise physiology, and sports medicine. Students will develop valuable skills in diagnosis, differential diagnosis, assessment and prevention, along with prognosis and the rehabilitation of bodily injuries and related health conditions. Students will learn the therapy and application principles of a patient care plan including: assessment, evaluation, interventions of exercise, manual therapy, modalities and neuro re-education. Students will also develop goal setting and discharge plans for patients. Students will participate in nutrition understanding, as they learn how to develop proper diet plans for healthy individuals and they will learn how to tailor diet plans for special populations. Career Pathways for SMART-EST are listed at [www.beattietech.com](http://www.beattietech.com).

### VETERINARY SCIENCE TECHNOLOGY

**AW38 CREDIT 3.0**

Students enrolled in the VET-TECH program will experience a wide variety of care and management techniques throughout the program. Students will learn to maintain medical records, schedules, offer client education, explore authentic laboratory procedures, and assist with nursing and prepare for surgical duties; along with routine exams. Students will gain a solid foundation in the Vet-Tech program on which to build a post-secondary degree. Students will have the opportunity to earn the following recognized industry certifications: Purina Certified Weight Coach, Pet Tech First Aid and CPR.

### CERTIFICATIONS

Through strategic planning and partnerships with local employers, A.W. Beattie Career Center offers a variety of nationally recognized validated industry skills certifications. Senior students will participate in the annual National Occupational Competency Testing Institute exams (NOCTI).

Training related externships are required for all students wishing to earn a Performance Certificate with honors during their enrollment at A. W. Beattie Career Center. These related externship experiences can be paid or unpaid and fall into one of the following categories: Cooperative Education, Job Shadowing, Clinical Experiences or Internships and Volunteer opportunities.
Learning Center services are open to all students. The Center is designed to facilitate the needs of students to help them reach their full potential. Facilitators provide support services through tutoring, study guides, test assistance, and curriculum modification. Facilitators and Instruction Assistants offer support in the classrooms and labs.

ACCREDITATION
A.W. Beattie Career Center meets all requirements as established by the PA Department of Education under the guidelines of Chapter 339. The Career Center is the only recognized United States Department of Education Green Ribbon School award recipient career center in Pennsylvania.

CONTACT
A.W. Beattie Career Center
9600 Babcock Blvd.
Allison Park, PA 15101
Phone: 412-847-1912
Fax: 412-366-9600
E-mail: kim.zylinski@beattietech.com
IS AN ONLINE COURSE RIGHT FOR YOU?
1. Are you able to easily access the Internet as needed for your studies?
2. Are you comfortable communicating electronically?
3. Are you willing/able to dedicate 4 to 5 hours per week to your course?
4. Are you comfortable with written communication?
5. When it comes to learning and studying, are you a self-directed person?
6. Are you able to manage your time effectively and easily complete assignments on time?
7. As a student, do you enjoy working independently?
8. In your studies, do you set goals and have a high degree of initiative?
9. Are you comfortable initiating communication with an instructor when you have a problem or a question?
10. Do you have access to a quiet work space free of interruptions for homework and study time?

ACADEMIC RESOURCE STUDY HALLS
Students who enroll in online classes may be placed in an Academic Resource Study Hall during their assigned study hall periods if their schedule allows. Students will have access to a computer during these periods; however, it is recommended that students have access to a computer outside of school to complete any homework and/or long-term assignments.

INTRODUCTORY MEETINGS
Students must attend one of the scheduled introductory meetings during the first week of class. At this meeting, students will receive a copy of all course rules, a course syllabus and all course texts and materials. Failure to attend one of the scheduled meetings may result in removal from the course.

CONTRACTS
Each type of online course requires that students submit a specific contract signed by both the parents and students prior to registering for an online course, indicating that both parties understand all of the requirements involved in the decision to register for an online course. The contract may be obtained in the CRC or the student’s house office.

English/Language Arts

<table>
<thead>
<tr>
<th>Course Type</th>
<th>Code</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 9</td>
<td>7110</td>
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<tr>
<td>ENGLISH 10</td>
<td>7120</td>
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</tr>
<tr>
<td>AMERICAN LITERATURE</td>
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<tr>
<td>APOCALYPTIC LITERATURE</td>
<td>7140</td>
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</tr>
<tr>
<td>ADVENTURE &amp; QUEST</td>
<td>7142</td>
<td>0.5</td>
</tr>
<tr>
<td>QUESTIONING THE SELF</td>
<td>7144</td>
<td>0.5</td>
</tr>
<tr>
<td>SOCIAL CLASS WARFARE</td>
<td>7148</td>
<td>0.5</td>
</tr>
</tbody>
</table>

This course follows the curriculum outlined in English/Language Arts section of this book.

Grade Level:

ENGLISH 9
Grade Level: 9

ENGLISH 10
Grade Level: 10

AMERICAN LITERATURE
Grade Level: 11

APOCALYPTIC LITERATURE
Grade Level: 12

ADVENTURE & QUEST
Grade Level: 12

QUESTIONING THE SELF
Grade Level: 12

SOCIAL CLASS WARFARE
Grade Level: 12
SPEECH

This course follows the curriculum outlined in English/Language Arts section of this book.

Grade Level: 9, 10, 11

CREATIVE WRITING

Creative Writing is designed for students who enjoy writing and are interested in writing in different genres. Emphasis is placed on the craft of writing and revision. Students maintain a writing journal and examine precise diction, language structures, poetry terms, dialogue, and writing techniques. Various genres of writing are practiced including personal narratives, children’s literature, poetry, playwriting, and short stories.

Grade Level: 10, 11, 12

JOURNALISM

This course is designed to prepare you to become a student of journalism and media. The work we do here will equip you with the critical skills you must have to succeed in high school media, college media, and beyond. We will read a variety of journalistic material and do a great deal of news writing. We will also look at journalism from legal, ethical, and historic vantage points. Expect to complete numerous writing activities in a variety of styles including editorial, hard news, feature, review, and more. If you participate actively, you will gain tremendous skills that will serve you for the rest of your life. Individual and group project will also be a part of this class. This course is a project based course and does not include traditional tests; unit level understanding is assessed through unit projects.

Grade Level: 10, 11, 12

POETRY

The student will read and analyze classic literature such as poetry, short stories, novels, and historical documents. This course will concentrate mostly on poetry - reading, writing, and analyzing poetry. There will be other forms of literature throughout the course, but these types of literature are there to help share poetry. Through this analysis of poetry and other literature, the student will gain an understanding of how this literature relates to him/her. In addition, the student will create, evaluate, analyze, and critique literature by learning the fundamentals of literature through literary devices, creating poems, short stories, essays, responses, and research papers, and demonstrating this knowledge through assignments and projects.

Grade Level: 10, 11, 12

Social Studies

AMERICAN STUDIES

This course follows the curriculum outlined in Social Studies section of this book.

Grade Level: 9

WORLD HISTORY

This course follows the curriculum outlined in Social Studies section of this book.

Grade Level: 10

AMERICAN GOVERNMENT

This course follows the curriculum outlined in Social Studies section of this book.

Grade Level: 11

LAW & JUSTICE

This course follows the curriculum outlined in Social Studies section of this book.

Grade Level: 11, 12

SOCIOLOGY

This course follows the curriculum outlined in Social Studies section of this book.

Grade Level: 10, 11, 12

CONTEMPORARY HISTORY

This course follows the curriculum outlined in Social Studies section of this book.

Grade Level: 12
### Mathematics

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PRE ALGEBRA</strong></td>
<td>7305</td>
<td>1.0</td>
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</tbody>
</table>
| This course follows the curriculum outlined in Mathematics section of this book.  
  *Grade Level: 9*               |      |        |
| **ALGEBRA 1**                  | 7310 | 1.0    |
| This course follows the curriculum outlined in Mathematics section of this book.  
  *Grade Level: 9*               |      |        |
| **GEOMETRY**                   | 7320 | 1.0    |
| This course follows the curriculum outlined in Mathematics section of this book.  
  *Grade Level: 9*               |      |        |
| **ALGEBRA 2**                  | 7330 | 1.0    |
| This course follows the curriculum outlined in Mathematics section of this book.  
  *Grade Level: 9, 10*           |      |        |
| **COLLEGE ALGEBRA**            | 7341 | 0.5    |
| This course follows the curriculum outlined in Mathematics section of this book.  
  *Grade Level: 9, 10, 11*       |      |        |
| **TRIGONOMETRY**               | 7340 | 0.5    |
| This course follows the curriculum outlined in Mathematics section of this book.  
  *Grade Level: 10, 11, 12*      |      |        |
| **TRIGONOMETRY/PRE-CALCULUS**  | 7342 | 1.0    |
| This course follows the curriculum outlined in Mathematics section of this book.  
  *Grade Level: 10, 11, 12*      |      |        |

### Science

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td><strong>ENVIRONMENTAL SCIENCE A</strong></td>
<td>7450</td>
<td>0.5</td>
</tr>
</tbody>
</table>
| This course presents a brief introduction to environmental science, ecosystems and their interactions, water (including surface water, ponds and lakes, ground water, water quality), soils, and resources both renewable and non-renewable resources.  
  *Grade Level: 9, 10, 11, 12*  |      |        |
| **ENVIRONMENTAL SCIENCE B**     | 7451 | 0.5    |
| This course presents an overview of the basic systems that influence the ecosystems of Earth. Students will investigate threatened and endangered species in our world. Environmental health and the importance of agriculture are also discussed in terms of their impact on our ecosystems.  
  *Grade Level: 9, 10, 11, 12*  |      |        |
| **BIOLOGY**                     | 7410 | 0.5    |
| This course follows the curriculum outlined in Science section of this book.  
  *Grade Level: 9*               |      |        |
| **CHEMISTRY**                   | 7420 | 1.0    |
| This course follows the curriculum outlined in Science section of this book.  
  *Grade Level: 10*              |      |        |
| **EVERYDAY CHEMISTRY**          | 7441 | 0.5    |
| This course is designed as an introductory chemistry course that focuses on chemistry and how it relates to your everyday life. You will be learning some traditional chemistry topics as well as learning about things such as how a water softener works, what actually is in your water, how coins are made and how recycling works. All the topics covered will have a chemical aspect as well as an everyday use aspect. You will be learning about things that you already use as a consumer or may purchase for yourself in the future.  
  *Grade Level: 11, 12*          |      |        |
### World Language

<table>
<thead>
<tr>
<th>Course</th>
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<th>Credit</th>
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<tbody>
<tr>
<td>FRENCH 1</td>
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</tr>
<tr>
<td>FRENCH 2</td>
<td>7512</td>
<td>1.0</td>
</tr>
<tr>
<td>SPANISH 1</td>
<td>7541</td>
<td>1.0</td>
</tr>
<tr>
<td>SPANISH 2</td>
<td>7542</td>
<td>1.0</td>
</tr>
<tr>
<td>ARABIC 1</td>
<td>7571</td>
<td>1.0</td>
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<tr>
<td>ARABIC 2</td>
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<tr>
<td>ARABIC 4</td>
<td>7574</td>
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</tbody>
</table>

This course follows the curriculum outlined in World Language section of this book.

*Grade Level: 9, 10, 11, 12*

### ARABIC 1

Alif Baa Introduction to Arabic Letters and Sounds and Al-Kitaab will provide the students with the fundamentals of the Arabic language. The language is conveyed through audio-lingual methods. There is a strong emphasis on aural comprehension and pronunciation. Upon completion of the course, the student will have an understanding of basic grammar and will have gained a practical reading, writing, listening, and speaking skills of the Arabic language.

*Grade Level: 9, 10, 11, 12*

### ARABIC 2

This is a continuation of Arabic 1. It will focus on developing communicative skills emphasized in both oral and written skills, as well as developing the ability to communicate in Arabic about daily conversation topics. Upon completing this course, the student will be able to read, write, speak and understand basic Arabic as well as increasing cultural awareness. The student will be prepared for the Intermediate level of this course.

*Grade Level: 10, 11, 12*

### ARABIC 3

This is a continuation of Arabic 2. It will focus on developing communicative skills emphasized in both oral and written skills, as well as developing the ability to communicate in Arabic about daily conversation topics. Upon completing this course, the student will be able to read, write, speak and understand basic Arabic as well as increasing cultural awareness. The student will be prepared for the Intermediate level of this course sequence.

*Grade Level: 10, 11, 12*

### ARABIC 4

This is a continuation of Arabic 3. It will focus on developing communicative skills emphasized in both oral and written skills, as well as developing the ability to communicate in Arabic about daily conversation topics. Upon completing this course, the student will be able to read, write, speak and understand basic Arabic as well as increasing cultural awareness. The student will be prepared for the Intermediate level of this course sequence.

*Grade Level: 10, 11, 12*

### Business

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
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<tbody>
<tr>
<td>PERSONAL FINANCE</td>
<td>7621</td>
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<tr>
<td>CAREER &amp; PERSONAL PLANNING</td>
<td>7623</td>
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</table>

This course follows the curriculum outlined in Business Education section of this book.

*Grade Level: 9, 10, 11, 12*
Family & Consumer Science

TEEN TRANSITIONS 7631 CREDIT 0.5
This course follows the curriculum outlined in Family and Consumer Science section of this book.
Grade Level: 9, 10, 11, 12

Physical Education

HEALTH 7651 CREDIT 0.5
This course follows the curriculum outlined in Physical Education section of this book.
Grade Level: 9, 10, 11, 12

PHYSICAL EDUCATION 7652 CREDIT 0.5
In this course students will be challenged to learn new about types of physical activity and experiment with the use of these activities to plan a personal work out plan. The personal workouts will be fine-tuned as they work through the course to include a fitness and eating plan that works best for their body and their lifestyle. The course fulfills Pennsylvania standards for Physical Education and Health, and is also mapped to national standards. A student could use this course in multiple years as they continue to fine tune their workout and eating plans.
Grade Level: 9, 10, 11, 12

Guidance

ESSENTIAL SKILLS 1 7951 CREDIT 0.5
This course focuses on self-awareness and decision-making. Students will explore their own personal strengths and weaknesses and build skills to make positive choices in their life. The second section focuses on managing anger and other emotions. Students will be provided with strategies on how to manage their own anger and emotions. Students will implement strategies and activities to support and enable the student to experience social and academic success, maximize learning through commitment, produce high quality work, and be prepared for social interactions and emotional situation throughout their lives.
Grade Level: 9, 10, 11, 12

ESSENTIAL SKILLS 2 7952 CREDIT 0.5
This course will help students focus on "real life"; "day-to-day" issues that are confront teens today. Students will do some self-exploration and learn the necessary skills for meeting the demands and responsibilities of a "successful life". This course will focus a great deal on self-esteem, drug/alcohol abuse & dependence, mental health issues, self-control, and personal responsibility. Students will learn factors that influence one's attitude, motivation, confidence, emotional control, healthy relationships, and self-discipline.
Grade Level: 9, 10, 11, 12

DEVELOPMENTAL SCHOOL COUNSELING 9A 7911 CREDIT 0.5
Designed for 9th Grade students, this course provides students with a comprehensive and developmental 9th grade school counseling program. Students will implement strategies and activities to support and enable the student to experience academic success, maximize learning through commitment, produce high quality work, and be prepared for a full range of options and opportunities after high school. This course will be tiered with the other guidance courses and will provide scaled coursework that is appropriate for each grade level and appropriate to age-related tasks. Topics in the 9th grade course include: Becoming an Adult Learner, Managing Time Effectively, Taking Good Notes, Dealing with Academic Difficulty, Making Healthy Minds and Bodies and Avoiding Dangerous Decisions, and Managing Use of Technology.

DEVELOPMENTAL SCHOOL COUNSELING 9B 7912 CREDIT 0.5
Designed for 9th Grade students, this course provides students with a comprehensive and developmental 9th grade guidance program. Students will implement strategies and activities to support and enable the student to experience academic success, maximize learning through commitment, produce high quality work, and be prepared for a full range of options and opportunities after high school. This course will be tiered with the other guidance courses and will provide scaled coursework that is appropriate for each grade level and appropriate to age-related tasks. Topics in the 9th grade course include: The 21st Century Student, Exploring Career Interests and Values and Abilities, Finding Part-Time Employment, Job Myths and Gender Discrimination, Interview Skills for Teenagers, and Exploring Volunteer Work.
DEVELOPMENTAL SCHOOL COUNSELING 10A  
This course is designed to provide student with a comprehensive and developmental 10th grade guidance program. Students will implement strategies and activities to support and enable the student to experience academic success, maximize learning through commitment, produce high quality work, and be prepared for a full range of options and opportunities after high school. Topics in the 10th grade course include: Attitudes, Knowledge, and Skills; Academic Preparation; How Education Relates to Your Future; Respect for Self and Others; Achieving Personal Goals; and Safety.

DEVELOPMENTAL SCHOOL COUNSELING 10B  
This course is designed to provide student with a comprehensive and developmental 10th grade guidance program. Students will implement strategies and activities to support and enable the student to experience academic success, maximize learning through commitment, produce high quality work, and be prepared for a full range of options and opportunities after high school. Topics in the 10th grade course include: How to Use the DISCOVER program for Career and College Planning, 21st Century Job Planning, Attitude, and Happiness.

DEVELOPMENTAL SCHOOL COUNSELING 11A  
This course is designed to provide student with a comprehensive and developmental 11th grade guidance program. Students will implement strategies and activities to support and enable the student to experience academic success, maximize learning through commitment, produce high quality work, and be prepared for a full range of options and opportunities after high school. This course will be tiered with the other guidance courses and will provide scaled coursework that is appropriate for each grade level and appropriate to age-related tasks. Topics in the 11th grade course include: Academic Self-Awareness, Academic Organization, Time Management, Standardized Testing, Test Taking Strategies, Test Anxiety, Citizenship, Integrity, Trustworthiness, and Perseverance.

DEVELOPMENTAL SCHOOL COUNSELING 11B  
This course is designed to provide student with a comprehensive and developmental 11th grade guidance program. Students will implement strategies and activities to support and enable the student to experience academic success, maximize learning through commitment, produce high quality work, and be prepared for a full range of options and opportunities after high school. This course will be tiered with the other guidance courses and will provide scaled coursework that is appropriate for each grade level and appropriate to age-related tasks. Topics in the 11th grade course include: Hot Occupations, Exploring Careers via Interest and Value and Abilities, Exploring Majors, Standardized Testing, Identifying Schools, the 21st Century Job Market, Pop Culture Job Myths, Building Your Resume and Job Interviews.

DEVELOPMENTAL SCHOOL COUNSELING 12A  
This course is designed to provide student with a comprehensive and developmental 12th grade guidance program. Students will implement strategies and activities to support and enable the student to experience academic success, maximize learning through commitment, produce high quality work, and be prepared for a full range of options and opportunities after high school. Topics in the 12th grade course include: Springboard to Life after High School, Career/College Actions for Seniors, Factors in Career Exploration, The Changing Job Market, Family Patterns and Traditions, Online Reputations, and Using Social Media.

DEVELOPMENTAL SCHOOL COUNSELING 12 B  
This course is designed to provide student with a comprehensive and developmental 12th grade guidance program. Students will implement strategies and activities to support and enable the student to experience academic success, maximize learning through commitment, produce high quality work, and be prepared for a full range of options and opportunities after high school. Topics in the 12th grade course include: Taking Concrete Steps towards the Future, Job and College Applications, Cover Letters, Resumes, Volunteer Work, Adult Finances, and Making Smart Choices at Prom and Parties, and Independence.

**Video Conferencing Courses**
**THE CONFUCIUS INSTITUTE**

Because of our affiliation with the A.W. Beattie Career Center we are able to participate in the Confucius Institute Program. This program is facilitated in cooperation with the University of Pittsburgh’s Asian Studies Center and therefore is able to provide Mandarin Chinese classes using video conferencing technology. This innovative use of technology allows us to maximize our resources and bring high quality Chinese language instruction to our students at North Hills.

**MANDARIN CHINESE 1**  
More people speak Chinese than any other language in the world. Chinese, ancient and beautiful, gives unique insight into one of the fastest-growing, largest economies in the world. Students will get access to this magical culture and dynamic, 5000-year-old
society through a revolutionary learning approach that utilizes compelling stories, adventures, games, videos, podcasting, and a multimedia experience to make Chinese fun and accessible. The elegant simplicity of Chinese grammar and the mystery of Chinese pronunciation are both taught through entertaining and provocative lessons that give students a base of conversational ability and listening comprehension.

**MANDARIN CHINESE 2**  
7562  CREDIT 1.0

Chinese 2 is a second-level course to Modern Standard Chinese—Mandarin is the spoken language with simplified characters as the written language. Students will continue learning Chinese vocabulary in pinyin and Chinese characters through dialogue and writing assignments. Students will be introduced to an intermediate-level vocabulary and Chinese characters using scenario-based examples. They will also learn about Chinese tradition and society through cultural tips to learn about the Chinese language and culture. Additional topics provide unique insight into one of the fastest-growing, largest economies in the world and give students conversational ability, listening comprehension, and a large volume of vocabulary.

Prerequisite: Mandarin Chinese 1

**Early Release Options for Seniors**

Students selecting their senior schedule may apply to participate in the Early Exit, Dual Enrollment and Vocational Work Experience programs. These options allow seniors who have completed a minimum of 20 credits and have scheduled the necessary courses to meet all graduation requirements by the end of the school year to enroll in one of three early release programs to seek employment, attend college, or technical school. Students selecting this option must enroll in a minimum of four (4) classes at North Hills each semester and show proof of employment, or enrollment in a college or technical school course. Completion of the application process and course approval by the principal is required.

**EARLY EXIT**  
EEXT  CREDIT NONE

Juniors selecting their senior schedule may apply to participate in the Early Exit program. This option allows seniors who have met all graduation requirements by the end of the 1st semester of their senior year to enroll in college or technical school courses, participate in a pre-approved work experience, or enter into military obligations in lieu of attending high school classes during the 2nd semester. Students may attend the prom and graduation ceremonies. Diplomas are awarded in June. Completion of an application process and principal approval are required. Applications are available in the CRC.

**VOCATIONAL WORK EXPERIENCE**  
VW15 – FIRST SEMESTER  
VW25 – SECOND SEMESTER

This option allows seniors who have completed a minimum of 20 credits and have scheduled the necessary courses to meet all graduation requirements by the end of the school year to be dismissed from school to go to work. Students selecting this option must enroll in a minimum of four (4) morning classes at North Hills each semester and show proof of employment in pre-approved work experience. Students will be dismissed from school no earlier than 10:30 a.m. Completion of an application process and principal approval are required. Applications are available in the CRC.

**DUAL ENROLLMENT**  
DE15- FIRST SEMESTER  
DE25 – SECOND SEMESTER

This option allows seniors who have completed a minimum of 20 credits and have scheduled the necessary courses to meet all graduation requirements by the end of the school year to enroll in college or technical school courses. Students selecting this option must enroll in a minimum of four (4) morning classes at North Hills each semester and show proof of enrollment in a college or technical school course. Students will be dismissed no earlier than 10:30 a.m. No high school credit will be given to college and university course work. Completion of an application process and course approval by the principal is required. Applications are available in the CRC.
Course Request Procedures & Academic Planning

Course Request Procedures
Parents and students will have the opportunity to complete the course request process online by accessing PowerSchool from any computer with internet access. The course request window will be available at 6:00 p.m. on Wednesday, February 1, 2017 and will remain open until February 10, 2017. Students who do not complete course requests during this window will be assigned a scheduling appointment through the guidance office.

How to Schedule your classes:
- Log into your personal PowerSchool account. You may access the Course Request site by using either the parent or student log-in and password.
- If you do not have a current username and password, please contact Mrs. Daria White by e-mail at whited@nhsd.net.
- Once you have logged in click on the Class Registration button in the left hand navigation column:

This will take you to the Course Request Menu.

[Diagram of the Course Request Menu showing mandatory courses for 10th grade students]

[Table of mandatory courses for 10th grade students, including English, social studies, math, and science credits]

[Instructions on how to request courses, with links to specific courses]

[Details on health and physical education requirements]
Click on edit button to the right of each department box.

A new window opens-select class and click ok

Do this for each department.
Click “submit“ at the bottom when all selections are complete.
North Hills High School
Grades 9, 10, 11, 12
53 Rochester Road
Pittsburgh, Pennsylvania 15229

ADMINISTRATION
Mrs. Beth E. Williams, Principal
Mrs. Shannon Crombie, 11-12 Assistant Principal
Mr. Patrick Weber, 9-10 Assistant Principal
Mrs. Amy Scheuneman, Director of Athletics & Activities

SCHOOL COUNSELING DEPARTMENT
412-318-1434
Dr. David Barkovich.................Dean of Academic Affairs
Mrs. Kathy Helfrich...........Counselor, 9-10 Last Names A-Lio
Ms. Nicole Weber .............Counselor, 9-10 Last Names Lip-Z
Mrs. Maryssa Hestin ............Counselor, 11-12 Last Names A-Lio
Mrs. Deborah Davis ...........Counselor, 11-12 Last Names Lip-Z
Mr. Jason Greathouse ..........Social Worker, Last Names A-K
Mr. Timothy McDowell .......Social Worker, Last Names L-Z
Ms. Elizabeth Cleary ............Student Assistance Specialist
Mrs. Daria White......................Secretary/Transcripts

CURRICULUM LEADERS
Art/Fine Arts..........................Regina Moorby
Business Education..................Amy Patsilevas
English ..................................Peggy Byrnes
Family & Consumer Science .........Amy Patsilevas
Mathematics .........................Kim Wroblewski
Music ..................................Len Lavelle
Physical Education..................Eric Kasperowicz
Science ................................Jen DiPasquale
Social Studies .........................Steve Hoza
Technology Education .............James Cassandro
World Language .....................Joe Deible
Online Learning ......................Holly Michael

CENTRAL ADMINISTRATIVE STAFF
Dr. Patrick Mannarino..........................Superintendent of Schools
Dr. Jeffrey M. Taylor .................Assistant Superintendent for Curriculum, Assessment, and Elementary Education
Dr. Johannah Vanatta .........Assistant Superintendent for Secondary Education
Mrs. Nicole Bezila ................................Director of Pupil Services
Mr. W. David Hall ..................................Director of Finance and Operation
Mrs. Valerie Mengine ................................Director of Human Resources
Mr. David Charles ................................Director of Technology
Ms. Amanda Hartle .......................Director of Communications and Development
Mr. Kevin Swindell .........................Director of Facilities Services
Mrs. Lindsay Radzvin ..................................Director of Food Service

BOARD OF EDUCATION
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