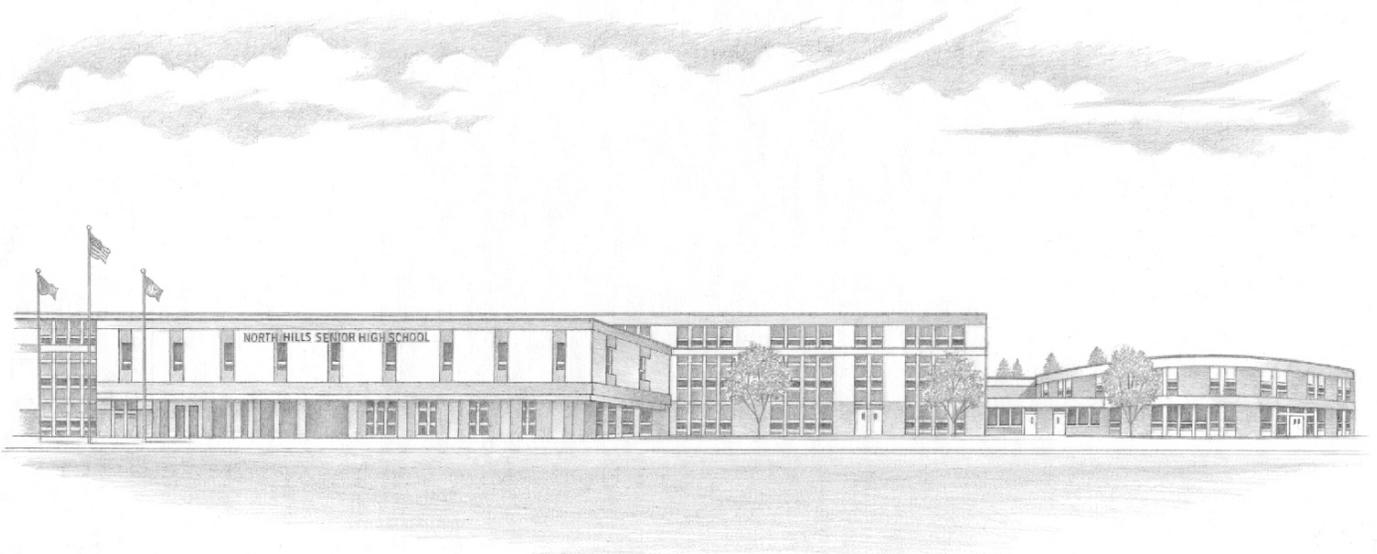


NH

North Hills High School



Program of Studies 2019-20

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 2019-20 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. Furthermore, we are excited to share new information for students regarding Career Pathways. Career Pathways are open to all students in grades 9-12 as we help them learn and prepare to make post-secondary decisions. Very simply, we have reenvisioned our Academies at North Hills, to Career Pathways to work extensively with every student per the state mandates. There is a tremendous amount of information regarding the Career Pathways, so please be sure to read it carefully. We hope this information helps guide students when making course selections as they illustrate how students can take courses that may shape and guide post-secondary plans.

Please note: North Hills High School Graduation Requirements have recently changed. Please be sure to review the new requirements beginning on page 27. A Course Request Worksheet is provided in the back of this program for your use in the planning of courses for the 2019-20 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 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.

Kevin McKiernan
Principal
North Hills High School
412-318-1402

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NH

CAREER
PATHWAYS

CAREER READINESS STANDARDS

An important component of Pennsylvania's Every Student Succeeds Act (ESSA) Consolidated State Plan is the creation of the Future Ready PA Index, a comprehensive, public-facing school progress report that includes a wide range of meaningful, evidence-based indicators. The Future Ready PA Index moves beyond a single, summative score to increase transparency around school and student group performance.

Each indicator within the Future Ready PA Index was selected based on extensive feedback from stakeholders across the commonwealth, along with careful evaluation of the practices and systems that tie to continuous school improvement.

Indicators fall into three main categories:

- Statewide Assessment Measures
- On-Track Measures
- College and Career Ready Measures

This page provides additional details and support on Career Readiness Standards, one of two College and Career Ready Measures, along with Graduation Rate, that will also serve as federal accountability indicators.

Beginning in the 2017-18 school year, PDE will report LEA's calculations of career readiness experiences at the building level, as well as for any student group of 20 or more students, to recognize efforts to ensure that all students have access to career exploration and preparation activities that are standards-aligned and evidence-based. For the 2017-18 school year, school entities will be expected to verify and document that students identified as satisfying career exploration and preparation criteria have submitted at least two pieces of supporting evidence.

For the 2018-19 school year and beyond, school entities must demonstrate that students have met the full continuum of career readiness expectations as defined for each grade span. Specifically, evidence shall be collected in a manner that validates that all four strands of the Career Education and Work standards have been meaningfully addressed. Grade span requirements are as follows:

- By the end of grade 5, the student has produced six or more pieces of evidence accumulated within the 3-5 grade span. In future years, best practice is to produce a minimum of two pieces of evidence in grades 3, 4, and 5.
- By the end of grade 8, the student has produced six additional pieces of evidence beyond the K-5 band evidence. One piece of evidence for the 6-8 grade band must be the student's individualized career plan.
- By the end of grade 11, the student has produced eight additional pieces of evidence beyond the K-5 and 6-8 grade bands of evidence. At least two of these pieces of evidence must demonstrate implementation of the student's individualized career plan.

This information is taken from <https://www.education.pa.gov/Pages/FRCRS.aspx>.

PATHWAYS AND CAREER CRUISING

“Education,” said Dr. John G. Hibben, former president of Princeton University, “is the ability to meet life’s situations.”

– Dale Carnegie, **How to Win Friends and Influence People**

North Hills High School would like our students to find their spark as it relates to a career and a plan for that career. All students will be enrolled in a Career and Financial Literacy class in their 9th grade year. Within this class, students will learn about career awareness and preparation, career acquisition, career retention and advancement, and entrepreneurship. Career Cruising is the name of the online platform that students will use to explore, navigate, and store their career portfolios. This platform allows each student’s career planning to be personalized and interactive. Students will be able to identify a career cluster that the assessments have identified as a potential career path for the student within the Career Cruising platform in the Career and Financial Literacy class.

After students have completed this class in 9th grade, they will then be able to identify a career pathway to begin exploring through North Hills’ curriculum. The curricular path may also differ depending on the level of education needed for their career path after high school. Below you will find descriptions of career clusters, levels of post-secondary training, and sample careers:

- The workforce section identifies careers that are in need of a high school diploma, on-the-job training, or military training.
- The technical/skilled section identifies careers that require technical training and/or 2 years of college (associates degree).
- The professional section identifies careers that require at least 4 years of college (bachelor’s degree).

6 CAREER PATHWAYS

ARTS AND COMMUNICATIONS (AC)

Created for students to explore the designing, producing, exhibiting, performing, writing and publishing of multimedia content including visual and performing arts and design, and journalism.

Career Clusters Included:

- Arts, Audio/Visual Technology, and Communication

BUSINESS, FINANCE, AND INFORMATION TECHNOLOGY (BFIT)

Created for students to explore today’s global market while acquiring communication skills and a multicultural understanding in the international areas of business, finance, and information technologies.

Career Clusters Included:

- Business Management and Administration
- Finance
- Information Technology
- Marketing

ENGINEERING AND INDUSTRIAL TECHNOLOGY (EIT)

Created for students to explore the designing, developing, installing, and maintaining of physical systems.

Career Clusters Included:

- Architecture and Construction
- Manufacturing
- Transportation, Distribution, and Logistics

HUMAN SERVICES (HS)

Created for students to explore interpersonal, social and communication skills as well as learning about leadership, public service, and community organizations and networks.

Career Clusters Include:

- Education and Training
- Government and Public Administration
- Hospitality and Tourism
- Human Services
- Law, Public Safety, Corrections, and Security

SCIENCE AND HEALTH (SH)

Created for students to explore the behavioral, physical, and life sciences. In addition, students will learn about problem-solving, communication skills, professional behavior and ethics.

Career Clusters

- Agriculture, Food, and Natural Resources
- Health Science
- Science, Technology, Engineering, and Mathematics

UNDECIDED

Created for students to explore all of the career pathways above so that students can discover which pathway may fit their skills, interests, and abilities.

ARTS AND COMMUNICATIONS (AC) PATHWAY

Created for students to explore the designing, producing, exhibiting, performing, writing and publishing of multimedia content including visual and performing arts and design, and journalism.

PATHWAY CAREER CLUSTERS

ARTS, AUDIO/VISUAL TECHNOLOGY & COMMUNICATIONS
Audio and Video Technology and Film (AV) Journalism and Broadcasting (JB) Performing Arts (PA) Printing Technology (PT) Telecommunications (TC) Visual Arts (VA)

SAMPLE CAREERS

Workforce=high school diploma or on-the-job training, Technical/skilled section=technical training and/or 2 years of college (associates degree), and Professional section=at least 4 years of college (bachelor's degree)

WORKFORCE	TECHNICAL/SKILLED	PROFESSIONAL
<ul style="list-style-type: none"> • Acting Instructor (PA) • Actor (PA) • Artist (VA) 	<ul style="list-style-type: none"> • Advertising Copywriter (JB) • Animator (AV)/(VA) • Arts Administrator (PA)/(VA) 	<ul style="list-style-type: none"> • Agent (PA) • Art/Music Therapist (PA) • Art Dealer (VA)

<ul style="list-style-type: none"> • Audio-Visual Technician (AV)/(JB) • Book Binder (PT) • Cartoonist/Comic Illustrator (VA) • Casting Director (PA) • Choreographer/Dance Instructor (PA) • Exhibit Designer (VA) • Interior Decorator (VA) • Makeup Artist (PA) • Model (PA) • Motivational Speaker (PA) • Printing Press Operator (PT) • Singer (PA) • Special Effects Technician (AV)/(VA) • Tattoo Artist (VA) 	<ul style="list-style-type: none"> • Broadcast Technician(AV)/(JB) • Camera Operator (AV)/(JB) • Computer Animator (AV)/(VA) • Costume Designer (PA) • Digital Media Specialist (VA) • Director (PA) • Director of Photography (PA) • Fashion Designer (VA) • Film Editor (PA) • Graphic Designer (AV)/(PT)/(VA) • Industrial Designer (VA) • Interior Designer (VA) • Photojournalist (JB)/(VA) • Sound Technician (AV)/(PA) 	<ul style="list-style-type: none"> • Art Director (VA) • Conservator (VA) • Curator (VA) • Editor (JB) • Medical Illustrator (VA) • Museum Technician (VA) • Publisher (JB) • Writer (PA)
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ARTS AND COMMUNICATIONS (AC) PATHWAY ELECTIVES

Please Note: Before selecting any elective, be sure that the required prerequisites have been met and that you qualify for the correct grade level listed.

Course #	Course Title	Credit	Grade Level	Prerequisites & Recommended Courses
6244	Career & Financial Literacy	0.5	9,10	Highly recommended for Chapter 339 requirements
6245	Career and Personal Planning	0.5	11, 12	Highly recommended for Chapter 339 requirements
62C3	CHS Sports Arts & Entertainment Management	0.5	10,11,12	
6230	International Business & Ethics	0.5	9,10,11,12	
6175	Filmmaking 1	0.5	9,10,11,12	
6180	Filmmaking 2	0.5	9,10,11,12	Filmmaking 1
6185	Filmmaking 3	0.5	10,11,12	Filmmaking 2
6190	Filmmaking 4	0.5	10,11,12	Filmmaking 3
6145	Digital Art	0.5	9,10,11,12	
6150	Photography 1	0.5	9,10,11,12	
6155	Photography 2	0.5	9,10,11,12	Photography 1
6120	Pottery 1	0.5	10,11,12	
61C1	CHS Pottery	0.5	11,12	Pottery 1
6125	Pottery 2	0.5	10,11,12	Pottery 1
6105	Studio Art 1	0.5	9,10,11,12	
6110	Studio Art 2	0.5	9,10,11,12	Studio Art 1
6130	Sculpture 1	0.5	9,10,11,12	Pottery 1
6135	Sculpture 2	0.5	9,10,11,12	Sculpture 1

61A2	AP Studio Art – Pottery/3D	1.0	11,12	Pottery 1 and Pottery 2 or CHS Pottery or Sculpture 1
61A1	AP Studio Art – Drawing	1.0	10,11,12	Studio Art 1 and Studio Art 2
61A3	AP Studio Art – 2D Photography	1.0	10,11,12	Studio Art 1, Photography 1, Photography 2
61A4	AP Art History	1.0	11,12	B or better in any Honors/CHS course
1725	Television Production 1	0.5	9,10,11,12	
1730	Television Production 2	0.5	9,10,11,12	Television Production 1
1735	Television Production 3	0.5	10,11,12	Television Production 2
1740	Television Production 4	0.5	10,11,12	Television Production 3
1746	Visual FX for Film and Television	0.5	9,10,11,12	
1620	Conventions of Writing	0.5	9,10,11	
1615	Creative Writing	0.5	9,10,11,12	
1525	Speech	0.5	9,10, 11, 12	
15C1	CHS Argumentation	0.5	11,12	
1605	Journalism 1	0.5	9,10,11,12	
1610	Journalism 2	0.5	10,11,12	Journalism 1
1613	Journalism 3	0.5	11,12	Journalism 2
1615	Journalism 4	0.5	11, 12	Journalism 3
1625	Yearbook 1	0.5	9,10,11,12	
1626	Yearbook 2	0.5	10,11,12	Yearbook 1
1627	Yearbook 3	0.5	11,12	Yearbook 2
1628	Yearbook 4	0.5	12	Yearbook 3
1515	Language Enrichment	0.5	9, 10,11,12	
1520	Leadership	0.5	9,10,11,12	
1510	SAT and ACT Prep	0.5	11,12	Successful completion of a 10 th grade English, Geometry, Language Enrichment or Conventions of Writing
1705	Introduction to Theatre	0.5	9,10,11,12	
1716	CHS Media & Communication	1.0	11,12	
1717	Screenwriting	0.5	10,11,12	
1718	Acting I	0.5	9,10,11,12	
1719	Acting II	0.5	10,11,12	Acting I
1720	Acting III	0.5	11,12	Acting II
1721	Acting IV	0.5	11, 12	Acting III
1722	Voice and Diction	0.5	10,11,12	
6312	Fashion and Sewing	0.5	9,10,11,12	

6315	Interior Design	0.5	9,10,11,12	
6405	Symphonic Choir (full year)	1.0	9,10,11,12	9-12 boys & 11-12 girls only
6410	Symphonic Choir (semester)	0.5	9,10,11,12	
6415	Women's Choir (full year)	1.0	9,10 (11,12)	9-10 girls & any 11-12 girls who choose
6420	Women's Choir (semester)	0.5	9,10 (11,12)	
6425	Concert Band	1.0	9,10,11,12	Placement by audition/teacher recommendation
6435	Symphonic Band	1.0	9,10,11,12	Placement by audition/ teacher recommendation
6430	Wind Symphony	1.0	9,10,11,12	Placement by audition/ teacher recommendation
6437	Wind Ensemble	1.0	9,10,11,12	Placement by audition/ teacher recommendation
6440	Jazz Band	1.0	9,10,11,12	Placement by audition/ teacher recommendation
64	String Orchestra	1.0	9,10,11,12	Placement by audition/ teacher recommendation
	Chamber Orchestra	1.0	9,10,11,12	Placement by audition/ teacher recommendation
6460	Guitar Ensemble (semester)	0.5	9,10,11,12	
6461	Guitar Ensemble (full year)	1.0	9,10,11,12	
6465	Music Theory	0.5	9,10,11,12	
6470	Music Technology	0.5	10,11,12	Music Theory or teacher recommendation
64A1	AP Music Theory	1.0	10,11,12	Music Theory or teacher recommendation
6650	Graphic Design	1.0	10,11,12	Course is double blocked
25A2	AP European History	1.0	11,12	Senior Prerequisite: Any 11 th 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 higher or Honors World History with a B or higher
25A1	AP US History	1.0	11,12	Senior Prerequisite: Any 11 th 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 higher or Honors World History with a B or higher
AW04	Advertising Design	3,0	10, 11, 12	

BUSINESS, FINANCE, AND INFORMATION TECHNOLOGY (BCIT) PATHWAY
Created for students to explore today's global market while acquiring communication skills and a multicultural understanding in the international areas of business, finance, and information technologies.

PATHWAY CAREER CLUSTERS

BUSINESS MANAGEMENT & ADMINISTRATION	FINANCE	INFORMATION TECHNOLOGY	MARKETING
<ul style="list-style-type: none"> • Administrative Support (AS) • Business Information Management (BM) • General Management (GM) • Human Resources Management (HR) • Operations Management (OM) 	<ul style="list-style-type: none"> • Accounting (AC) • Banking Services (BS) • Banking Finance (BF) • Insurance (IN) • Securities and Investments (SI) 	<ul style="list-style-type: none"> • Information Support and Services (IS) • Network Systems (NS) • Programming and Software Development (PS) • Web and Digital Communications (WC) 	<ul style="list-style-type: none"> • Marketing Communications (MC) • Marketing Management (MM) • Marketing Research (MR) • Merchandising (ME) • Professional Sales (PS)

SAMPLE CAREERS

Workforce=high school diploma or on-the-job training, Technical/skilled section=technical training and/or 2 years of college (associates degree), and Professional section=at least 4 years of college (bachelor's degree)

WORKFORCE	TECHNICAL/SKILLED	PROFESSIONAL
<ul style="list-style-type: none"> • Administrative Assistant (MM) • Antique Dealer (MC) • Audio/Visual Technician (WC) • Bank Teller (BS) • Customer Service Representative (IS)/ (MR) • Computer Support Person (NS) • Dispatcher(AS) • Event Planner (GM) • Fashion Retailer (ME) • Receptionist (AS) • Shipping and Receiving Clerk (OM) • Tax Preparer (SI) • Travel Agent (PS) • Web Developer (PS) 	<ul style="list-style-type: none"> • Bookkeeper (BM) • Career Coach (HR) • Computer Programmer (WC) • E-Business Consultant (IS)/(MR) • Electrical Engineering Technician (NS) • Insurance Claims Adjuster (IN) • Interpreter (HR) • Paralegal (AS) • Loan Officer (BS) • Mortgage Broker (MC)/(PS) • Public Relations Specialist (GM) • Purchaser (ME) • Sports Marketer (MM) • Video Game Developer (PS) 	<ul style="list-style-type: none"> • Accountant (AC) • Agent (PS) • Auditor (BM) • Bioinformatics Specialist (IS) • Business Systems Analyst (NS) • Communications Specialist (MC) • Computer Software • Engineer (PS) • Corporate Trainer (HR) • Database Developer (IS) • Healthcare Administrator (GM) • Market Research Analyst (OM) • Marketing Specialist (MM)/(MR) • Trader (BF)

BUSINESS, FINANCE, AND INFORMATION TECHNOLOGY (BCIT) PATHWAY ELECTIVES

Please Note: Before selecting any elective, be sure that the required prerequisites have been met and that you qualify for the correct grade level listed.

Course #	Course Title	Credit	Grade Level	Prerequisites & Recommended Courses
6210	Accounting 1	1.0	9,10,11,12	
62C1	CHS Accounting 2	1.0	10,11,12	Accounting 1
6221	Innovation and Entrepreneurship	0.5	9,10,11,12	
6244	Career & Financial Literacy	0.5	9,10	Highly recommended for Chapter 339 requirements
6245	Career and Personal Planning	0.5	11, 12	Highly recommended for Chapter 339 requirements

62C2	CHS Microsoft Applications	0.5	9,10,11,12	
6205	Personal Finance	0.5	9,10,11,12	
62C3	CHS Sports Arts & Entertainment Management	0.5	10,11,12	
6230	International Business & Ethics	0.5	9,10,11,12	
6305	Practical Skills for Life	0.5	11,12	
3605	Computer Science	0.5	10,11,12	Algebra 1 with a B or Geometry with a C or higher
36C1	CHS Computer Science	0.5	9,10,11,12	Algebra 1 with a B or higher or Geometry with a C or higher
26C2	CHS Cybersecurity and the Law	1.0	10,11,12	Honors World History with a B or higher, concurrent enrollment/successful completion of Honors or AP American Government with a B or higher, concurrent enrollment/successful completion of Law and Justice - Criminal Law with a B or higher, concurrent enrollment/ successful completion of Computer Science or Web & Mobile App Design with a B or higher
2625	Law & Justice – Civil Law	0.5	11,12	
23A1	AP US Government & Politics	1.0	11,12	Senior Prerequisite: Any 11 th 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 higher or Honors World History with a B or higher
2630	Economics	0.5	11,12	
36A1	AP Computer Science	1.0	11,12	Computer Science with B or CHS Comp Sci with a C or higher
6470	Music Technology	0.5	10,11,12	Music Theory or teacher recommendation
6672	Evolution of Games	0.5	9,10,11,12	
6674	Mobile Game Design	0.5	9,10,11,12	
6673	CHS Game Design	0.5	10,11,12	Recommendation: Evolution of Games
6645	3D Modeling & Animation	0.5	9,10,11,12	
6670	3D Game Programming	0.5	10,11,12	3D Modeling & Animation Recommended
66C3	2D Game Programming	0.5	10, 11,12	Mobile Game Design
6676	Game Production and Marketing	0.5	11, 12	Complete at least (2) Multimedia Programming, Gaming & Simulation courses
6648	CHS Web & Mobile App Design	1.0	10,11,12	Full year course
AW02	Advanced Computer Programming	3.0	10,11,12	
AW14	Computer Systems, Network Engineering & Cyber Security	3.0	10,11,12	

ENGINEERING AND INDUSTRIAL TECHNOLOGY (EIT) PATHWAY

Created for students to explore the designing, developing, installing, and maintaining of physical systems.

PATHWAY CAREER CLUSTERS

ARCHITECTURE & CONSTRUCTION	MANUFACTURING	TRANSPORTATION, DISTRIBUTION, & LOGISTICS
<ul style="list-style-type: none"> • Construction (CO) • Design/Pre-Construction (DP) • Maintenance/Operations (MO) 	<ul style="list-style-type: none"> • Health, Safety, & Environmental Assurance (HS) • Logistics & Inventory Control (LI) • Maintenance, Installation, & Repair (MIR) • Manufacturing Production Process Development (MP) • Production (PR) • Quality Assurance (QA) 	<ul style="list-style-type: none"> • Facility & Mobile Equipment Maintenance (EM) • Health, Safety, & Environmental Management (HSE) • Logistics, Planning, & Management Services (LPM) • Sales & Service (SS) • Transportation Operations (TO) • Transportation Systems/Infrastructure Planning, Management, & Regulation (TMR) • Warehousing & Distribution Center Operations (WD)

SAMPLE CAREERS

Workforce=high school diploma or on-the-job training, Technical/skilled section=technical training and/or 2 years of college (associates degree), and Professional section=at least 4 years of college (bachelors' degree)

WORKFORCE	TECHNICAL/SKILLED	PROFESSIONAL
<ul style="list-style-type: none"> • Automobile Assembler (PR) • Bricklayer/Stonemason (MO) • Courier (SS) • Dispatcher (LI)/(WD) • Electronics Repair (MIR) • Flight Attendant (TO) • Food Inspector (HS)/(QA) • Heavy Equipment Operator (EM) • Power Plant Operator (MP) • Shipping & Receiving Clerk (LPM) 	<ul style="list-style-type: none"> • Air Traffic Controller (TO) • Avionics Tech (EM) • Boilermaker (CO) • Building Inspector (DP) • Environmental Technician (HS)/(HSE) • Logistics Specialist (LPM) • Manufacturing Manager (LI) • Quality Controller (QA) • Stationary Engineer (MIR) • Survey Tech (TMR) • Tool and Die Maker (PR) 	<ul style="list-style-type: none"> • Civil Engineer (DP) • Electrical Engineer (MP) • Environmental Engineer (MO) • Hydrologist/Hydrogeologist (HSE) • Operations Research Analyst (LPM) • Planner (TMR) • Toxicologist (HSE)

ENGINEERING AND INDUSTRIAL TECHNOLOGY (EIT) PATHWAY ELECTIVES

Please Note: Before selecting any elective, be sure that the required prerequisites have been met and that you qualify for the correct grade level listed.

Course #	Course Title	Credit	Grade Level	Prerequisites & Recommended Courses
6221	Innovation and Entrepreneurship	0.5	9,10,11,12	
6244	Career & Financial Literacy	0.5	9,10	Highly recommended for Chapter 339 requirements
6245	Career and Personal Planning	0.5	11, 12	Highly recommended for Chapter 339 requirements
6695	Electricity & Electronics	0.5	9,10,11,12	
6635	Home Maintenance	0.5	9,10,11,12	
6669	The Art Of Making	0.5	9,10,11,12	
6667	Concept to Creation: Applied Physics in Engineering	0.5	10,11,12	

6640	Robotics & Engineering	0.5	9,10,11,12	
6690	Transportation Design	0.5	9, 10,11,12	
6675	Engineering Drawing & Design 1	1.0	9,10,11,12	
6315	Interior Design	0.5	9,10,11,12	
6680	Engineering Drawing & Design 2	1.0	10,11,12	Engineering Drawing & Design 1
6655	Architectural Design	0.5	10,11,12	Engineering Drawing & Design 1 or Interior Design
AW06	Agile Robotics/Advanced Manufacturing	3.0	10,11,12	
AW08	Automotive Collision Repair	3.0	10,11,12	
AW10	Automotive Technology	3.0	10,11,12	
AW12	Carpentry/Building Construction	3.0	10,11,12	
AW24	EDAM/Robotics	3.0	10,11,12	
AW30	Heating, Ventilation & Air Conditioning	3.0	10,11,12	

HUMAN SERVICES (HS) PATHWAY

Created for students to explore interpersonal, social and communication skills as well as learning about leadership, public service, and community organizations and networks.

PATHWAY CAREER CLUSTERS

EDUCATION & TRAINING	GOVERNMENT & PUBLIC ADMINISTRATION	HOSPITALITY & TOURISM	HUMAN SERVICES	LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY
<ul style="list-style-type: none"> • Administration & Administrative Support (AS) • Professional Support Services (PS) • Teaching/Training (TT) 	<ul style="list-style-type: none"> • Foreign Service (FS) • Governance (GO) • National Security (NS) • Planning (PL) • Public Management & Administration (PMA) • Regulation (RE) • Revenue & Taxation (RT) 	<ul style="list-style-type: none"> • Lodging (LO) • Recreation, Amusements, & Attractions (RA) • Restaurants & Food/Beverage Services (RS) • Travel & Tourism (TR) 	<ul style="list-style-type: none"> • Consumer Services (CON) • Counseling & Mental Health Services (CM) • Early Childhood Development & Services (EC) • Family & Consumer Services (FC) • Personal Care Services (PC) 	<ul style="list-style-type: none"> • Correction services (CS) • Emergency & Fire Management Services (EM) • Law Enforcement Services (LE) • Legal Services (LS) • Security & Protective Services (SP)

SAMPLE CAREERS

Workforce=high school diploma or on-the-job training, Technical/skilled section=technical training and/or 2 years of college (associates degree), and Professional section=at least 4 years of college (bachelor's degree)

WORKFORCE	TECHNICAL/SKILLED	PROFESSIONAL
<ul style="list-style-type: none"> • Activist (GO) • Exhibit Designer (PS) • Fitness Instructor (TT) • Firefighter (CS) • Housekeeper (LO) 	<ul style="list-style-type: none"> • Association Manager (PMS) • Detective (LE) • Digital Media Specialist (AS) • Early Childhood Educator (TT) • Fire Investigator (RE) 	<ul style="list-style-type: none"> • Communications Specialist (TR) • Dietitian (RS) • Economist (PL) • Federal Agent (NS) • Foreign Service Officer (FS)

<ul style="list-style-type: none"> • Mail Carrier (PMA) • Nanny (EC) • National Guard (NS) • Parking Enforcement Officer (RE) • Sports Official (RA) • Tax Preparer (RT) • Waiter (RS) 	<ul style="list-style-type: none"> • Gerontologist (FC) • Hairstylist (PC) • Hotel Manager (LO) • Interpreter (TR) • Library Technician (PS) • Optician (CON) • Paramedic (EM) • Park Warden (RA)/(SP) 	<ul style="list-style-type: none"> • Forensic Accountant (RE)/(RT) • High School Teacher (TT) • Judge (LS) • Librarian (PS) • Lobbyist (GO) • Recreation Therapist (RA) • Social Worker (CM)
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HUMAN SERVICES (HS) PATHWAY ELECTIVES

Please Note: Before selecting any elective, be sure that the required prerequisites have been met and that you qualify for the correct grade level listed.

Course #	Course Title	Credit	Grade Level	Prerequisites & Recommended Courses
6230	International Business & Ethics	0.5	9,10,11,12	
6244	Career & Financial Literacy	0.5	9,10	Highly recommended for Chapter 339 requirements
6245	Career and Personal Planning	0.5	11, 12	Highly recommended for Chapter 339 requirements
6370	Nutrition, Food & Wellness	0.5	9,10,11,12	
63C1	CHS Nutrition	0.5	10,11,12	Biology
6320	Teen Transitions	0.5	9,10,11	
6345	Today's Foods	0.5	9,10, 11, 12	
6350	World Cuisines and Cultures	0.5	9,10,11,12	
6340	Gourmet Foods	0.5	11,12	Today's Foods or World Foods
6312	Fashion & Sewing	0.5	9,10,11,12	
6310	Creative Sewing	0.5	9,10,11,12	Fashion & Sewing
6311	Creative Sewing 2	0.5	9,10,11,12	Creative Sewing 1
6313	Creative Sewing 3	0.5	9,10,11,12	Creative Sewing 2
6314	Creative Sewing 4	0.5	9,10,11,12	Creative Sewing 3
6315	Interior Design	0.5	9,10,11,12	
6327	The Future of Food: Healthy Sustainable Food for All	0.5	10, 11, 12	
63C2	CHS Child Growth and Development	0.5	10, 11, 12	
6305	Practical Skills for Life	0.5	11,12	
6566	Lifeguard Certification, First Aid and CPR	0.5	9,10,11,12	
6567	Outdoor Adventures	0.5	9,10,11,12	
6568	Sports Officiating and Principles of Coaching	0.5	9,10,11,12	
25A2	AP European History	1.0	11,12	Senior Prerequisite: Any 11 th 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 higher or Honors World History with a B or higher
23A1	AP US Government & Politics	1.0	11,12	Senior Prerequisite: Any 11 th 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 higher or Honors World History with a B or higher
25A1	AP US History	1.0	11,12	Senior Prerequisite: Any 11 th 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 higher or Honors World History with a B or higher
2620	Law & Justice-Criminal Law	0.5	11,12	
2625	Law & Justice – Civil Law	0.5	11,12	
2615	PA History & Government	0.5	11,12	
2610	Psychology	0.5	11,12	
26C1	CHS Psychology	0.5	11,12	Psychology with a B or higher
2605	Sociology	0.5	11,12	
26C2	CHS Cybersecurity and the Law	1.0	10,11,12	Honors World History with a B or higher, concurrent enrollment/successful completion of Honors or AP American Government with a B or higher, concurrent enrollment/successful completion of Law and Justice - Criminal Law with a B or higher, concurrent enrollment/ successful completion of Computer Science or Web & Mobile App Design with a B or higher
2630	Economics	0.5	11,12	
1515	Language Enrichment	0.5	9, 10,11,12	
1520	Leadership	0.5	9,10,11,12	
1525	Speech	0.5	9,10, 11, 12	
AW16	Cosmetology	3.0	10.11.12	
AW18	Culinary Arts	3.0	10,11,12	
AW22	Early Childhood Education	3.0	10,11,12	
AW26	Emergency Response Technology	3.0	10,11,12	
AW32	Pastry Arts	3.0	10,11,12	

SCIENCE & HEALTH (SH) PATHWAY

Created for students to explore the behavioral, physical, and life sciences. In addition, students will learn about problem-solving, communication skills, professional behavior and ethics.

PATHWAY CAREER CLUSTERS

AGRICULTURE, FOOD, & NATURAL RESOURCES	HEALTH SCIENCE	SCIENCE, TECHNOLOGY, ENGINEERING & MATH
<ul style="list-style-type: none"> • Agribusiness Systems (AG) • Animal Systems (AN) • Environmental Service Systems (ES) • Food Products & Processing Systems (FP) • Natural Resources Systems (NR) • Plant Systems (PS) • Power, Structural, and Technical Systems (PST) 	<ul style="list-style-type: none"> • Biotechnology Research & Development (BR) • Diagnostic Services (DS) • Health Informatics (HI) • Support Services (SS) • Therapeutic Services (TS) 	<ul style="list-style-type: none"> • Engineering & Technology (ET) • Science & Math (SM)

SAMPLE CAREERS

Workforce=high school diploma or on-the-job training, Technical/skilled section=technical training and/or 2 years of college (associates degree), and Professional section=at least 4 years of college (bachelor's degree)

WORKFORCE	TECHNICAL/SKILLED	PROFESSIONAL
<ul style="list-style-type: none"> • Animal Trainer (SS) • Appliance Repairer (ET) • Aquaculturist (NR) • Arborist (PS) • Community Worker (SS) • Crime Scene Investigator (ET) • Dental Assistant (TS) • Food Inspector (FP) • Forest Firefighter (ES) • Hospital Service Worker (SS) • Medical Transcriptionist (HI) • Nursery/Greenhouse Grower (AG) • Phlebotomist (DS) • Roustabout/Leasehand (PST) • Wildlife Technician (AN)/(SM) 	<ul style="list-style-type: none"> • Agricultural Technician (SM) • Biological Tech (PS) • Dental Hygienist (TS) • GIS Specialist (PST) • Health Records Professional (HI) • Landman (AG) • Medical Imaging Tech (DS) • Medical Lab Tech (BR) • Petroleum Engineering Tech (NR) • Public Health Nurse (SS) • Sign Language Interpreter (SS) • Solar Energy Tech (ES) • Technical Writer (ET) • Veterinary Technician (AN) 	<ul style="list-style-type: none"> • Agricultural Educator (ES) • Agronomist (AG) • Anesthesiologist (TS) • Astronaut (ET) • Bioethicist (SS) • Biologist (BR) • Botanist (PS) • Climatologist (SM) • Dentist (DS)/(TS) • Industrial Hygienist (SS) • Land Surveyor (PST) • Medical Illustrator (HI) • Meteorologist (NR) • Microbiologist (FP) • Pharmacologist (SM) • Radiologist (ET) • Veterinarian (AN)

Course #	Course Title	Credit	Grade Level	Prerequisites & Recommended Courses
1515	Language Enrichment	0.5	9, 10,11,12	
1520	Leadership	0.5	9,10,11,12	
1525	Speech	0.5	9,10, 11, 12	
6244	Career & Financial Literacy	0.5	9,10	Highly recommended for Chapter 339 requirements
6245	Career and Personal Planning	0.5	11, 12	Highly recommended for Chapter 339 requirements
6370	Nutrition, Food & Wellness	0.5	9,10,11,12	
63C1	CHS Nutrition	0.5	10,11,12	Biology
6505	Health	0.5	9,10	
4111	Principles of Biomedical Science	1.0	9, 10	

41A1	AP Biology	1.0	11,12	Honors Biology & Honors/CHS Chemistry or an A in Biology/Chemistry
42A1	AP Chemistry	1.0	11,12	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.
4112	Medical Intervention	1.0	10-12	Biology
45C1	CHS Anatomy & Physiology 1	1.0	11,12	Biology, Chemistry
45C2	CHS Anatomy & Physiology 2	1.0	11,12	CHS Anatomy & Physiology 1
4405	Environmental Science	0.5	10,11,12	Biology
44P1	Honors Environmental Science	0.5	10,11,12	Honors Biology or a B or higher in Biology and Chemistry
44A1	AP Environmental Science	1.0	11,12	Honors Biology & Honors/CHS Chemistry or A in Biology & Chemistry. Honors Environmental Science preferred but not required.
4610	Astronomy	0.5	9,10,11,12	
4615	Forensic Science	0.5	11,12	Biology & Chemistry or Conceptual Chemistry
2610	Psychology	0.5	11,12	
4310	Physics	1.0	11,12	Chemistry C or higher Concurrently enrolled in Algebra 2 or higher Mathematics.
43P1	Honors Physics	1.0	11, 12	Chemistry with B or Higher, or concurrently enrolled in Honors Chemistry, CHS Chemistry or AP Chemistry. Concurrently enrolled in Trigonometry or higher Mathematics.
43A1	AP Physics 1	1.0	10,11,12	Chemistry with B or Higher, or concurrently enrolled in Honors Chemistry, CHS Chemistry or AP Chemistry. Concurrently enrolled in Trigonometry or higher Mathematics.
43A2	AP Physics 2	1.0	11,12	Teacher Recommendation
43A3	AP Physics C	1.0	12	Teacher Recommendation
26C1	CHS Psychology	0.5	11,12	Psychology with a B or higher
2605	Sociology	0.5	11,12	
6327	The Future of Food: Healthy Sustainable Food for All	0.5	10, 11, 12	
2620	Law & Justice-Criminal Law	0.5	11,12	
AW20	Dental Careers	3.0	10,11,12	
AW28	Health & Nursing Sciences	3.0	10,11,12	
AW34	Introduction to Pharmacy	3.0	10,11,12	
AW36	Sports Medicine - Rehab Therapy & Exercise Science Technology	3.0	10,11,12	
AW38	Veterinary Science Technology	3.0	10,11,12	

UNDECIDED (UN) PATHWAY

Created for students to explore all of the career pathways above so that students can discover which pathway may fit their skills, interests, and abilities.

STEPS TO PATHWAY EXPLORATION IN CAREER CRUISING

1. LEARN ABOUT YOURSELF

SKILLS	INTERESTS	ABILITIES
<ul style="list-style-type: none"> • Take the Matchmaker Inventory • Take the My Skills Inventory • Take the Learning Styles Inventory • Log Your Skills & Abilities 	<ul style="list-style-type: none"> • Log Your Extracurricular Activities • Log Your Hobbies & Interests 	<ul style="list-style-type: none"> • Log Work Experiences • Log Volunteer Experiences • Log Awards & Certificates

2. EXPLORE CAREERS THAT MATCH YOUR PERSONALITY

<ul style="list-style-type: none"> • Explore the Career Selector 	<ul style="list-style-type: none"> • Explore Careers by School Subject 	<ul style="list-style-type: none"> • Explore Careers by Career Clusters (this matches the career clusters listed for the other pathways) 	<ul style="list-style-type: none"> • Explore Careers by Industry
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3. EXPLORE THE EDUCATION THAT MATCHES THE CAREER

<ul style="list-style-type: none"> • Explore by College or Major 	<ul style="list-style-type: none"> • Explore Career & Technical School programs (2 years or less of focused education in a career field, Undergraduate programs (4-year program), and/or Graduate programs (additional 2 years after the undergraduate) 	<ul style="list-style-type: none"> • Compare Career & Technical School programs (2 years or less of focused education in a career field, Undergraduate programs (4-year program), and/or Graduate programs (additional 2 years after the undergraduate) 	<ul style="list-style-type: none"> • Explore Careers by Location
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UNDECIDED (UN) PATHWAY ELECTIVES

Please Note: Before selecting any elective, be sure that the required prerequisites have been met and that you qualify for the correct grade level listed.

Course #	Course Title	Credit	Grade Level	Prerequisites & Recommended Courses
6175	Filmmaking 1	0.5	9,10,11,12	
6180	Filmmaking 2	0.5	9,10,11,12	Filmmaking 1
6185	Filmmaking 3	0.5	10,11,12	Filmmaking 2
6190	Filmmaking 4	0.5	10,11,12	Filmmaking 3
6145	Digital Art	0.5	9,10,11,12	
6150	Photography 1	0.5	9,10,11,12	
6155	Photography 2	0.5	9,10,11,12	Photography 1
6120	Pottery 1	0.5	10,11,12	
61C1	CHS Pottery	0.5	11,12	Pottery 1

6125	Pottery 2	0.5	10,11,12	Pottery 1
6105	Studio Art 1	0.5	9,10,11,12	
6110	Studio Art 2	0.5	9,10,11,12	Studio Art 1
6130	Sculpture 1	0.5	9,10,11,12	Pottery 1
6135	Sculpture 2	0.5	9,10,11,12	Sculpture 1
61A2	AP Studio Art – Pottery/3D	1.0	11,12	Pottery 1 and Pottery 2 or CHS Pottery or Sculpture 1
61A1	AP Studio Art – Drawing	1.0	10,11,12	Studio Art 1 and Studio Art 2
61A3	AP Studio Art – 2D Photography	1.0	10,11,12	Studio Art 1, Photography 1, Photography 2
61A4	AP Art History	1.0	11,12	B or better in any Honors/CHS course
1725	Television Production 1	0.5	9,10,11,12	
1730	Television Production 2	0.5	9,10,11,12	Television Production 1
1735	Television Production 3	0.5	10,11,12	Television Production 2
1740	Television Production 4	0.5	10,11,12	Television Production 3
1746	Visual FX for Film and Television	0.5	9,10,11,12	
6210	Accounting 1	1.0	9,10,11,12	
62C1	CHS Accounting 2	1.0	10,11,12	Accounting 1
6221	Innovation and Entrepreneurship	0.5	9,10,11,12	
6244	Career & Financial Literacy	0.5	9,10	Highly recommended for Chapter 339 requirements
6245	Career and Personal Planning		11, 12	Highly recommended for Chapter 339 requirements
62C2	CHS Microsoft Applications	0.5	9,10,11,12	
6205	Personal Finance	0.5	9,10,11,12	
62C3	CHS Sports Arts & Entertainment Management	0.5	10,11,12	
6230	International Business & Ethics	0.5	9,10,11,12	
6305	Practical Skills for Life	0.5	11,12	
1620	Conventions of Writing	0.5	9,10,11	
1615	Creative Writing	0.5	9,10,11,12	
1525	Speech	0.5	9,10, 11, 12	
15C1	CHS Argumentation	0.5	11,12	
1605	Journalism 1	0.5	9,10,11,12	
1610	Journalism 2	0.5	10,11,12	Journalism 1
1613	Journalism 3	0.5	11,12	Journalism 2
1615	Journalism 4	0.5	11, 12	Journalism 3
1625	Yearbook 1	0.5	9,10,11,12	

1626	Yearbook 2	0.5	10,11,12	Yearbook 1
1627	Yearbook 3	0.5	11,12	Yearbook 2
1628	Yearbook 4	0.5	12	Yearbook 3
1515	Language Enrichment	0.5	9, 10,11,12	
1520	Leadership	0.5	9,10,11,12	
1510	SAT and ACT Prep	0.5	11,12	Successful completion of a 10 th grade English, Geometry, Language Enrichment or Conventions of Writing
1705	Introduction to Theatre	0.5	9,10,11,12	
1716	CHS Media & Communication	1.0	11,12	
1717	Screenwriting	0.5	10,11,12	
1718	Acting I	0.5	9,10,11,12	
1719	Acting II	0.5	10,11,12	Acting I
1720	Acting III	0.5	11,12	Acting II
1721	Acting IV	0.5	11, 12	Acting III
1722	Voice and Diction	0.5	10,11,12	
6370	Nutrition, Food & Wellness	0.5	9,10,11,12	
63C1	CHS Nutrition	0.5	10,11,12	Biology
6320	Teen Transitions	0.5	9,10,11	
6345	Today's Foods	0.5	9,10, 11, 12	
6350	World Cuisines and Cultures	0.5	9,10,11,12	
6340	Gourmet Foods	0.5	11,12	Today's Foods or World Foods
6312	Fashion & Sewing	0.5	9,10,11,12	
6310	Creative Sewing	0.5	9,10,11,12	Fashion & Sewing
6311	Creative Sewing 2	0.5	9,10,11,12	Creative Sewing 1
6313	Creative Sewing 3	0.5	9,10,11,12	Creative Sewing 2
6314	Creative Sewing 4	0.5	9,10,11,12	Creative Sewing 3
6315	Interior Design	0.5	9,10,11,12	
6327	The Future of Food: Healthy Sustainable Food for All	0.5	10, 11, 12	
63C2	CHS Child Growth and Development	0.5	10, 11, 12	
6505	Health	0.5	9,10	
6506	Personal Fitness: Cardio and Lifetime Fitness	0.5	9, 10,11,12	
6507	Personal Fitness: Creative Movement	0.5	9,10,11,12	
6508	Personal Fitness: Foundations of Yoga, Pilates and Mindfulness	0.5	9,10,11,12	
6509	Personal Fitness: Sports and Recreation	0.5	9,10,11,12	

6511	Personal Fitness: Strength and Conditioning	0.5	9,10,11,12	
6305	Practical Skills for Life	0.5	11,12	
6566	Lifeguard Certification, First Aid and CPR	0.5	9,10,11,12	
6567	Outdoor Adventures	0.5	9,10,11,12	
6568	Sports Officiating and Principles of Coaching	0.5	9,10,11,12	
6405	Symphonic Choir (full year)	1.0	9,10,11,12	9-12 boys & 11-12 girls only
6410	Symphonic Choir (semester)	0.5	9,10,11,12	
6415	Women's Choir (full year)	1.0	9,10 (11,12)	9-10 girls & any 11-12 girls who choose
6420	Women's Choir (semester)	0.5	9,10 (11,12)	
6425	Concert Band	1.0	9,10,11,12	Placement by audition/teacher recommendation
6435	Symphonic Band	1.0	9,10,11,12	Placement by audition/ teacher recommendation
6430	Wind Symphony	1.0	9,10,11,12	Placement by audition/ teacher recommendation
6437	Wind Ensemble	1.0	9,10,11,12	Placement by audition/ teacher recommendation
6440	Jazz Band	1.0	9,10,11,12	Placement by audition/ teacher recommendation
64	String Orchestra	1.0	9,10,11,12	Placement by audition/ teacher recommendation
	Chamber Orchestra	1.0	9,10,11,12	Placement by audition/ teacher recommendation
6460	Guitar Ensemble (semester)	0.5	9,10,11,12	
6461	Guitar Ensemble (full year)	1.0	9,10,11,12	
6465	Music Theory	0.5	9,10,11,12	
6470	Music Technology	0.5	10,11,12	Music Theory or teacher recommendation
64A1	AP Music Theory	1.0	10,11,12	Music Theory or teacher recommendation
25A2	AP European History	1.0	11,12	Senior Prerequisite: Any 11 th grade AP Social Studies course with a C- or higher or Honors American Government with a B or higher
23A1	AP US Government & Politics	1.0	11,12	
25A1	AP US History	1.0	11,12	Junior Prerequisite: AP World History with a C- or higher or Honors World History with a B or higher
2630	Economics	0.5	11,12	
2620	Law & Justice-Criminal Law	0.5	11,12	
2625	Law & Justice - Civil Law	0.5	11,12	
2615	PA History & Government	0.5	11,12	
2610	Psychology	0.5	11,12	
26C1	CHS Psychology	0.5	11,12	Psychology with a B or higher
2605	Sociology	0.5	11,12	
26C2	CHS Cybersecurity and the Law	1.0	10,11,12	Honors World History with a B or higher, concurrent enrollment/successful completion of Honors or AP

				American Government with a B or higher, concurrent enrollment/successful completion of Law and Justice - Criminal Law with a B or higher, concurrent enrollment/successful completion of Computer Science or Web & Mobile App Design with a B or higher
6695	Electricity & Electronics	0.5	9,10,11,12	
6635	Home Maintenance	0.5	9,10,11,12	
6305	Practical Skills for Life	0.5	9,10,11,12	See Course Description under Business
6669	The Art Of Making	0.5	9,10,11,12	
6667	Concept to Creation: Applied Physics in Engineering	0.5	10,11,12	
6640	Robotics & Engineering	0.5	9,10,11,12	
6690	Transportation Design	0.5	9, 10,11,12	
6675	Engineering Drawing & Design 1	1.0	9,10,11,12	
6315	Interior Design	0.5	9,10,11,12	
6680	Engineering Drawing & Design 2	1.0	10,11,12	Engineering Drawing & Design 1
6655	Architectural Design	0.5	10,11,12	Engineering Drawing & Design 1 or Interior Design
6672	Evolution of Games	0.5	9,10,11,12	
6674	Mobile Game Design	0.5	9,10,11,12	
6673	CHS Game Design	0.5	10,11,12	Recommendation: Evolution of Games
6645	3D Modeling & Animation	0.5	9,10,11,12	
6670	3D Game Programming	0.5	10,11,12	3D Modeling & Animation Recommended
66C3	2D Game Programming	0.5	10,11,12	Mobile Game Design
6676	Game Production and Marketing	0.5	11, 12	Complete at least (2) Multimedia Programming, Gaming & Simulation courses
6605	Introduction to Metal Technologies	1.0	9,10,11,12	
6610	Advanced Metal Technologies	1.0	9,10,11,12	Intro to Metal Technologies
6615	Material Engineering	1.0	10,11,12	
66C1	CHS Welding	1.0	10,11,12	Introduction to Metal Advanced Metal Material Engineering
6625	Introduction to Wood Technologies	1.0	9,10,11,12	
6630	Advanced Wood Technologies	1.0	10,11,12	Intro to Wood Technologies
6631	Advanced Furniture Engineering	1.0	10,11,12	Advanced Wood Technologies
6632	CNC Woodworking and Furniture Making	1.0	11,12	Advanced Furniture Engineering
6650	Graphic Design	1.0	10,11,12	Course is double blocked
6648	CHS Web & Mobile App Design	1.0	10,11,12	Full year course
5505	World Language & Culture Enrichment	0.5	10,11,12	French 2, German 2 or Spanish 2

5105	French 1	1.0	9,10,11,12	
5110	French 2	1.0	9,10,11,12	French 1 with a D or higher
5115	French 3	1.0	10,11,12	French 2 with a C- or higher, or teacher recommendation
51P1	Honors French 3	1.0	10,11,12	French 2 with B- or higher, or teacher recommendation
51P2	Honors French 4	1.0	11,12	French 3 with a B or higher & teacher recommendation or Honors French 3 with a B- or higher
51C1	CHS French 1	1.0	11,12	French 3, Honors French 3 or Honors French 4 with a B- or higher, or teacher recommendation
51C2	CHS French 2	1.0	12	CHS French 1 with a C- or higher, or teacher recommendation
5205	German 1	1.0	9,10,11,12	
5210	German 2	1.0	9,10,11,12	German 1 with a D or higher
5215	German 3	1.0	10,11,12	German 2 with a C- or higher, or teacher recommendation
52P1	Honors German 3	1.0	10,11,12	German 2 with a B- or higher, or teacher recommendation
52P2	Honors German 4	1.0	11,12	German 3 with a B or higher & teacher recommendation or Honors German 3 with a C- or higher
52C1	CHS German 1	1.0	11,12	German 3, Honors German 3, or Honors German 4 with a B- or higher, or teacher recommendation
52C2	CHS German 2	1.0	12	CHS German 1 with a C-, or teacher recommendation
5305	Latin 1	1.0	9,10,11,12	
5310	Latin 2	1.0	9,10,11,12	Latin 1 with a D or higher
5315	Latin 3	1.0	10,11,12	Latin 2 with a C- or higher, or teacher recommendation
53P1	Honors Latin 3	1.0	10,11,12	Latin 2 with a B- or higher, or teacher recommendation
53C2	CHS Latin Prose	1.0	12	
53C3	CHS Latin Verse	1.0	12	Latin 3, Honors Latin 3, or CHS Latin Prose with B- or higher OR with teacher recommendation
5405	Spanish 1	1.0	9,10,11,12	
5410	Spanish 2	1.0	9,10,11,12	Spanish 1 with a D or higher
5415	Spanish 3	1.0	10,11,12	Spanish 2 with a C- or higher, or teacher recommendation
54P1	Honors Spanish 3	1.0	10,11,12	Spanish 2 with a B- or higher, or teacher recommendation
54P2	Honors Spanish 4	1.0	11,12	Spanish 3 or Honors Spanish 3 with C- or higher OR with teacher recommendation
54C1	CHS Spanish 1	1.0	11,12	Spanish 3, Honors Spanish 3, or Honors Spanish 4 with B- or higher, or teacher recommendation
54A1	CHS Spanish 2	1.0	12	CHS Spanish 1 with C- or higher, or teacher recommendation
AW02	Advanced Computer Programming	3.0	10,11,12	
AW04	Advertising Design	3.0	10,11,12	

AW06	Agile Robotics/Advanced Manufacturing	3.0	10,11,12	
AW08	Automotive Collision Repair	3.0	10,11,12	
AW10	Automotive Technology	3.0	10,11,12	
AW12	Carpentry/Building Construction	3.0	10,11,12	
AW14	Computer Systems, Network Engineering & Cyber Security	3.0	10,11,12	
AW16	Cosmetology	3.0	10,11,12	
AW18	Culinary Arts	3.0	10,11,12	
AW20	Dental Careers	3.0	10,11,12	
AW22	Early Childhood Education	3.0	10,11,12	
AW24	EDAM/Robotics	3.0	10,11,12	
AW26	Emergency Response Technology	3.0	10,11,12	
AW28	Health & Nursing Sciences	3.0	10,11,12	
AW30	Heating, Ventilating & Air Conditioning	3.0	10,11,12	
AW32	Pastry Arts	3.0	10,11,12	
AW34	Introduction to Pharmacy	3.0	10,11,12	
AW36	Sports Medicine-Rehab Therapy & Exercise Science Technology	3.0	10,11,12	
AW38	Veterinary Science Technology	3.0	10,11,12	

TRANSITION ACTIVITIES

WORKFORCE	TECHNICAL/SKILLED	PROFESSIONAL
9th Grade	9th Grade	9th Grade
<ul style="list-style-type: none"> • Career and Financial Literacy Class • Career Cruising Activities • Attend IEP and/or GIEP meetings, if applicable • Create or update resume • Tour Beattie Career Center • Attend the Activities Fair • Have the opportunity to participate in OVR Early Reach, if applicable • Learn how to get a work permit, if needed 	<ul style="list-style-type: none"> • Career and Financial Literacy Class • Career Cruising Activities • Attend IEP and/or GIEP meetings, if applicable • Create or update resume • Tour Beattie Career Center • Attend the Activities Fair • Have the opportunity to participate in OVR Early Reach, if applicable • Learn how to get a work permit, if needed 	<ul style="list-style-type: none"> • Career and Financial Literacy Class • Foreign Language • Career Cruising Activities • Attend IEP and/or GIEP meetings, if applicable • Create or update resume • Tour Beattie Career Center • Attend the Activities Fair • Have the opportunity to participate in OVR Early Reach, if applicable • Learn how to get a work permit, if needed
10th Grade	10th Grade	10th Grade
<ul style="list-style-type: none"> • Career Cruising Activities • Enroll in at least 2 electives in your Career Pathway 	<ul style="list-style-type: none"> • Career Cruising Activities • Enroll in at least 2 electives in your Career Pathway 	<ul style="list-style-type: none"> • Khan Academy SAT Prep • Foreign Language • Career Cruising Activities

<ul style="list-style-type: none"> • Take PSAT or ASVAB test • Attend IEP and/or GIEP meetings, if applicable • Study PA Driver’s Manual • Update resume • Attend the Activities Fair • Have the opportunity to participate in OVR Early Reach, if applicable • Learn how to get a work permit, if needed 	<ul style="list-style-type: none"> • Take PSAT or ASVAB test • Attend IEP and/or GIEP meetings, if applicable • Study PA Driver’s Manual • Update resume • Attend the Activities Fair • Have the opportunity to participate in OVR Early Reach, if applicable • Learn how to get a work permit, if needed 	<ul style="list-style-type: none"> • Enroll in at least 2 electives in your Career Pathway • Take PSAT • Attend IEP and/or GIEP meetings, if applicable • Study PA Driver’s Manual • Attend NCAA Evening Program if thinking of playing sports at college • Update resume • Attend the Activities Fair • Have the opportunity to participate in OVR Early Reach, if applicable • Learn how to get a work permit, if needed
11th Grade	11th Grade	11th Grade
<ul style="list-style-type: none"> • Career Cruising Activities • Enroll in at least 3 electives in your Career Pathway • Attend IEP and/or GIEP meetings, if applicable • Narrow Career Choices and Goals • Attend National College Fair • Visit Military Representatives at North Hills if applicable to your future plans • Attend Career and College Planning for Underclassmen program in school and/or in the evening • Update resume • Attend the Activities Fair • Attend Trades Fair • Learn how to get a work permit, if needed • Register for Selective Service • Get a Driver’s License/Photo ID • Research OVR assistance, if applicable 	<ul style="list-style-type: none"> • Career Cruising Activities • Enroll in at least 3 electives in your Career Pathway • Attend IEP and/or GIEP meetings, if applicable • Narrow Career Choices and Goals Optional-enroll for SAT/ACT test in the spring (important if plan on attending a university at a later time) • Attend National and North Pittsburgh College Fair • Visit Military Representatives at North Hills if applicable to your future plans • Visit College/Technical School Representatives at North Hills • Visit colleges/technical schools • Attend Career and College Planning for Underclassmen program in school and/or in the evening • Attend Financial Aid Night, if applicable • Update resume • Attend the Activities Fair • Attend Trades Fair; Learn how to get a work permit, if needed • Register for Selective Service • Get a Driver’s License/Photo ID • Research OVR assistance, if applicable 	<ul style="list-style-type: none"> • Khan Academy SAT Prep • SAT and ACT Prep class • Foreign Language • Career Cruising Activities • Enroll in at least 3 electives in your Career Pathway • Attend IEP and/or GIEP meetings, if applicable • Narrow Career Choices and Goals • Enroll for SAT/ACT test in the spring • Attend National and North Pittsburgh College Fair • Visit College Representatives at North Hills • Visit colleges/universities • Attend Career and College Planning for Underclassmen program in school and/or in the evening • Attend Financial Aid Night • Apply for Scholarships • Update resume • Attend the Activities Fair • Learn how to get a work permit, if needed • Register for Selective Service • Get a Driver’s License/Photo ID • Research OVR assistance, if applicable
12th Grade	12th Grade	12th Grade
<ul style="list-style-type: none"> • Enroll in at least 4 electives in your Career Pathway-at 	<ul style="list-style-type: none"> • Enroll in at least 4 electives in your Career Pathway-at North Hills and/or dual enrollment 	<ul style="list-style-type: none"> • Enroll in at least 4 electives in your Career Pathway-at North Hills and/or dual enrollment

<p>North Hills and/or dual enrollment</p> <ul style="list-style-type: none"> • Attend IEP and/or GIEP meetings, if applicable • Prepare and Submit Resumes/Transcripts • Request any letters of recommendation from teachers • Attend Career and College Planning for Senior programs in school and/or in the evening • Send final transcripts at the end of the year • Finalize resume • Attend the Activities Fair • Attend Trades Fair • Obtain OVR paperwork, if applicable • Obtain information on supports available for independent living, if applicable • Obtain information on leisure activities upon graduation 	<ul style="list-style-type: none"> • Attend IEP and/or GIEP meetings, if applicable • Submit Applications/Transcripts • Request any letters of recommendation from teachers • Attend Career and College Planning for Senior programs in school and/or in the evening • Attend Financial Aid Night, if applicable • Fill out FAFSA form, if applicable • Send final transcripts at the end of the year • Finalize resume • Attend the Activities Fair • Attend Trades Fair • Obtain OVR paperwork, if applicable • Obtain information on supports available for independent living, if applicable • Obtain information on leisure activities upon graduation 	<ul style="list-style-type: none"> • Foreign Language • Attend IEP and/or GIEP meetings, if applicable • Enroll for SAT/ACT test in the fall if additional scores are needed • Submit Applications/Transcripts • Request any letters of recommendation from teachers • Attend Career and College Planning for Senior programs in school and/or in the evening • Attend Financial Aid Night • Fill out FAFSA form • Apply for Scholarships • Send final transcripts at the end of the year • Finalize resume • Attend the Activities Fair • Attend Trades Fair • Obtain OVR paperwork, if applicable • Obtain information on supports available for independent living, if applicable • Obtain information on leisure activities upon graduation
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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 Required Credits of English must include:

- 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, Classic to Modern Literature, or Social Class Warfare
 - or AP English Literature
 - or English Lab 12

4.0 Required Credits of Social Studies must include:

- 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 Required Credits of Mathematics must include:

- 1 credit of Algebra 1
- 1 credit of Geometry
- 1 credit of Algebra 2

3.0 Required Credits of Science must include:

- 1 credit of Biology
- 1 credit of Chemistry
- 1 credit of Science Elective courses

0.5 Required Credit of Personal Fitness

0.5 Required Credit of Health

2.0 Required Credits of Arts/Humanities electives*

1.0 Required Credit of STEAM electives as defined by the Program of Studies**

6.0 Credits of electives as determined by the student

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, Music, World Language, Family & Consumer Science, Technology Education, and Speech Arts.

***Beginning with the class of 2020 STEAM will be a Required Elective*

STEAM - In a world that's becoming increasingly complex, **where success is driven not only by what you know, but by what you can do with what you know**, it's more important than ever for our students to be equipped with the knowledge and skills to solve tough problems, gather and evaluate evidence, and make sense of information. **STEAM education is an interdisciplinary approach to learning where rigorous academic concepts are coupled with real-world lessons as students apply science, technology, engineering, art, and mathematics in contexts that make connections between school, community, work, and the global enterprise enabling the development of STEAM literacy and with it the ability to compete in the new economy** (Rachel Tsupros, 2009).

The following courses have been designated as STEAM electives. Students in the Class of 2020 may fulfill their 1.0 STEAM credits through one or more of the following courses:

- All A.W. Beattie Technical Programs
- All Art Department courses
- English
 - ❖ Intro to Theater
 - ❖ Acting 1- 4
 - ❖ Theater Production and Stage Design
- Math – any math course that provides credit(s) beyond the 3.0 required for graduation
- Music
 - ❖ Music Theory
 - ❖ Music Technology
 - ❖ AP Music Theory
 - ❖ Symphonic Choir (semester or full year)
 - ❖ Women’s Choir (semester or full year)
 - ❖ Concert Band
 - ❖ Symphonic Band
 - ❖ Wind Symphony
 - ❖ Wind Ensemble
 - ❖ Jazz Band
 - ❖ Orchestra
 - ❖ Guitar Ensemble (semester of full year)
- Science – any science course that provides credit(s) beyond the 3.0 required for graduation
- All Technology Education courses

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.

Percentage	Grade	AP QP	CHS QP	Honors/Pre AP QP	Standard QP
100 – 93	A	4.60	4.40	4.20	4.0
92 – 90	A-	4.50	4.25	4.00	3.75
89 – 87	B+	4.00	3.75	3.50	3.25
86 – 83	B	3.75	3.50	3.25	3.00
82 – 80	B-	3.50	3.25	3.00	2.75
79 – 77	C+	3.00	2.75	2.50	2.25
76 – 73	C	2.75	2.50	2.25	2.0
72 – 70	C-	2.50	2.25	2.00	1.75
69 – 65	D	1.00	1.00	1.00	1.0
64 – 0	E				

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 27 Advanced Placement (AP) Exams:*

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

**** 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 university for tuition.

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 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 Anatomy and Physiology 1: Carlow University

CHS Anatomy and Physiology 2: Carlow University

CHS Argumentation: University of Pittsburgh

CHS Chemistry: University of Pittsburgh

CHS Business Calculus: University of Pittsburgh

CHS French: University of Pittsburgh

CHS German: University of Pittsburgh

CHS Latin: University of Pittsburgh

CHS Microsoft Applications: LaRoche College

CHS Media and Communication: Point Park University

CHS Pottery: Carlow University

CHS Probability and Statistics: University of Pittsburgh

CHS Psychology: Seton Hill University

CHS Nutrition: Seton Hill University

CHS Computer Science: University of Pittsburgh

CHS Computer Security: University of Pittsburgh

CHS Cybersecurity and the Law: University of Pittsburgh

CHS Spanish: University of Pittsburgh

CHS Sports Arts and Entertainment: Point Park University

CHS Welding: Community College of Allegheny County

CHS 2D Game Programming: Community College of Allegheny County

CHS Child Growth and Development: Seton Hill University

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. Per Board Policy 214 the superintendent has the authority to issue a diploma upon exit when requested by a student. Students may attend the prom and graduation ceremonies. 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.

INTENSIFIED SCHEDULING (BLOCK SCHEDULING)

Block scheduling has been incorporated into subject areas that incorporate a lab setting or have a substantial amount of set up time and hands on activities. Intensified scheduling consists of a double class period, 84 minutes in length for one semester and has a value of one credit. Final placement in classes is determined by scheduling constraints and curriculum considerations, and not by student request.

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.

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 school 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 with your school counselor for assistance.

It will be possible for a Division 1 student-athlete to still receive athletic 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, foreign 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, foreign language or comparative religion/philosophy

Minimum Core:

1. Division 1 core GPA required to be eligible for competition 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, school 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

Course #	Course Title	Credit	Grade Level	Prerequisites & Recommended Courses
6175	Filmmaking 1	0.5	9,10,11,12	
6180	Filmmaking 2	0.5	9,10,11,12	Filmmaking 1
6185	Filmmaking 3	0.5	10,11,12	Filmmaking 2
6190	Filmmaking 4	0.5	10,11,12	Filmmaking 3
6145	Digital Art	0.5	9,10,11,12	
6150	Photography 1	0.5	9,10,11,12	
6155	Photography 2	0.5	9,10,11,12	Photography 1
6120	Pottery 1	0.5	10,11,12	
61C1	CHS Pottery	0.5	11,12	Pottery 1
6125	Pottery 2	0.5	10,11,12	Pottery 1
6105	Studio Art 1	0.5	9,10,11,12	
6110	Studio Art 2	0.5	9,10,11,12	Studio Art 1
6130	Sculpture 1	0.5	9,10,11,12	Pottery 1
6135	Sculpture 2	0.5	9,10,11,12	Sculpture 1
61A2	AP Studio Art – Pottery/3D	1.0	11,12	Pottery 1 and Pottery 2 or CHS Pottery or Sculpture 2
61A1	AP Studio Art – Drawing	1.0	10,11,12	Studio Art 1 and Studio Art 2
61A3	AP Studio Art – 2D Photography	1.0	10,11,12	Studio Art 1, Photography 1, Photography 2, Digital Art
61A4	AP Art History	1.0	11,12	B or better in any Honors/CHS course
1725	Television Production 1	0.5	9,10,11,12	
1730	Television Production 2	0.5	9,10,11,12	Television Production 1
1735	Television Production 3	0.5	10,11,12	Television Production 2
1740	Television Production 4	0.5	10,11,12	Television Production 3
1746	Visual FX for Film and Television	0.5	9,10,11,12	Television Production 2
1745	Theater Production and Set Design	0.5	9,10,11,12	
1746	Visual FX for Film and Television	0.5	9,10,11,12	Television Production 1

BUSINESS & COMPUTER INFORMATION TECHNOLOGY COURSES

Course #	Course Title	Credit	Grade Level	Prerequisites & Recommended Courses
26C2	CHS Cybersecurity and the Law	1.0	10,11,12	Honors World History with a B or higher, concurrent enrollment/successful completion of Honors or AP American Government with a B or higher, concurrent

				enrollment/successful completion of Law and Justice – Criminal Law with a B or higher, concurrent enrollment/successful completion of Computer Science or Web & Mobile App Design with a B or higher
6210	Accounting 1	1.0	9,10,11,12	
62C4	CHS Accounting 2	1.0	10,11,12	Accounting 1
6221	Innovation and Entrepreneurship	0.5	9,10,11,12	
6244	Career & Financial Literacy	0.5	9,10	Highly recommended for Chapter 339 requirements
6245	Career & Personal Planning	0.5	9,10,11,12	Highly recommended for Chapter 339 requirements
62C2	CHS Microsoft Applications	0.5	9,10,11,12	
6205	Personal Finance	0.5	9,10,11,12	
62C3	CHS Sports Arts & Entertainment Management	0.5	9,10,11,12	
6231	International Business & Ethics	0.5	9,10,11,12	
6305	Practical Skills for Life	0.5	11,12	

ENGLISH DEPARTMENT COURSES

Course #	Course Title	Credit	Grade Level	Prerequisites & Recommended Courses
Required English Courses				
1110	English 9	1.0	9	
11P1	Pre-AP English 9	1.0	9	A grade of B+ or better in grade 7; a grade of A- or better in 8th grade. Grade Level: 9
1210	English 10	1.0	10	English 9
12P1	Pre-AP English 10	1.0	10	Average of B or better in Pre-AP English 9 or average of an A in English 9 with teacher recommendation
1310	American Literature & Composition	1.0	11	English 10
13P1	Honors American Lit. & Comp.	1.0	11	Pre-AP English 10 with B- or higher or English 10 with A- or higher with teacher recommendation.
13A1	AP English Language & Composition	1.0	11	Pre-AP English 10 with B or higher or teacher recommendation.
14A1	AP English Literature & Composition	1.0	12	AP English Language & Composition or grade of A or higher in Honors American Lit. & Comp. & teacher recommendation.
12th Grade Courses for those not taking AP English Lit & Comp or English 12. Must choose 2 courses below.				
1420	Adventure & Quest	0.5	12	11 th grade English course
1425	Apocalyptic Literature	0.5	12	
1430	Female Perspectives	0.5	12	
1435	Questioning the Self	0.5	12	
1445	Social Class Warfare	0.5	12	
English Electives: semester courses that may be taken in addition to required courses above.				
1620	Conventions of Writing	0.5	9,10,11	
1615	Creative Writing	0.5	9,10,11,12	
1525	Speech	0.5	9,10, 11, 12	
15C1	CHS Argumentation	0.5	11,12	

1605	Journalism 1	0.5	10,11,12	
1610	Journalism 2	0.5	10,11,12	Journalism 1
1613	Journalism 3	0.5	11,12	Journalism 2
1614	Journalism 4	0.5	11, 12	Journalism 3
1625	Yearbook 1	0.5	9,10,11,12	
1626	Yearbook 2	0.5	10,11,12	Yearbook 1
1627	Yearbook 3	0.5	11,12	Yearbook 2
1628	Yearbook 4	0.5	12	Yearbook 3
1515	Language Enrichment	0.5	10,11,12	
1520	Leadership	0.5	9,10,11,12	
1510	SAT and ACT Prep	0.5	11,12	Successful completion of a 10 th grade English, Geometry, Language Enrichment or Conventions of Writing
1705	Introduction to Theatre	0.5	9,10,11,12	
64C1	CHS Media & Communication	0.5	11,12	
1717	Screenwriting	0.5	10,11,12	
1751	Acting I	0.5	9,10,11,12	
1752	Acting II	0.5	10,11,12	Acting I
1753	Acting III	0.5	11,12	Acting II
1754	Acting IV	0.5	11, 12	Acting III
1722	Voice and Diction	0.5	10,11,12	

FAMILY & CONSUMER SCIENCE COURSES

Course #	Course Title	Credit	Grade Level	Prerequisites & Recommended Courses
6372	Nutrition, Food & Wellness	0.5	9,10,11,12	
63C1	CHS Nutrition	0.5	10,11,12	Biology
6320	Teen Transitions	0.5	9,10,11	
6345	Today's Foods	0.5	9,10, 11, 12	
6350	World Cuisines and Cultures	0.5	9,10,11,12	
6340	Gourmet Foods	0.5	11,12	Today's Foods or World Foods
6312	Fashion & Sewing	0.5	9,10,11,12	
6310	Creative Sewing	0.5	9,10,11,12	Fashion & Sewing
6311	Creative Sewing 2	0.5	9,10,11,12	Creative Sewing 1
6313	Creative Sewing 3	0.5	9,10,11,12	Creative Sewing 2
6314	Creative Sewing 4	0.5	9,10,11,12	Creative Sewing 3
6315	Interior Design	0.5	9,10,11,12	
6327	The Future of Food: Healthy Sustainable Food for All	0.5	10, 11, 12	
63C2	CHS Child Growth and Development	0.5	10, 11, 12	

HEALTH & PHYSICAL EDUCATION COURSES

Course #	Course Title	Credit	Grade Level	Prerequisites & Recommended Courses
6505	Health	0.5	9	
6506	Personal Fitness: Cardio and Lifetime Fitness	0.5	9, 20.11,12	

6507	Personal Fitness: Creative Movement	0.5	9,10,11,12	
6508	Personal Fitness: Foundations of Yoga, Pilates and Mindfulness	0.5	9,10,11,12	
6509	Personal Fitness: Sports and Recreation	0.5	9,10,11,12	
6511	Personal Fitness: Strength and Conditioning	0.5	9,10,11,12	
6305	Practical Skills for Life	0.5	11,12	
6566	Lifeguard Certification, First Aid and CPR	0.5	9,10,11,12	Must have completed a personal fitness class
6567	Outdoor Adventures	0.5	9,10,11,12	Must have completed a personal fitness class
6568	Sports Officiating and Principles of Coaching	0.5	9,10,11,12	Must have completed a personal fitness class

MATH DEPARTMENT COURSES

Course #	Course Title	Credit	Grade Level	Prerequisites & Recommended Courses
3110	Algebra 1	1.0	9	
3210	Geometry	1.0	9,10,11	Algebra 1
32P1	Honors Geometry	1.0	9,10	Algebra 1 with a B+ or higher
3310	Algebra 2	1.0	9,10,11	Geometry
33P1	Honors Algebra 2	1.0	9,10,11	Honors Geometry with B or higher
3405	College Algebra	0.5	11,12	Algebra 2
3410	Trigonometry	0.5	11,12	Algebra 2
3415	Trigonometry/Pre-Calculus	1.0	11,12	Algebra 2 with a B or higher
34P1	Honors Trig/Pre-Calculus	1.0	11,12	Honors Algebra 2 with a B or higher
35A1	AP Calculus (AB)	1.0	12	Honors Trig/Pre-Calc with B or higher
35A2	AP Calculus (BC)	1.0	12	AP Calculus (AB)
35C1	CHS Business Calculus	1.0	11,12	Honors Trig/Pre-Calc or Trig/Pre-Calc with a C or higher
35C2	CHS Probability & Statistics	0.5	10,11,12	Algebra 2 with a B or higher or Honors Geometry
35A3	AP Statistics	1.0	10,11,12	Honors Algebra 2 with a B or higher, CHS Probability & Statistics with a C or higher, Honors Trig/Pre Calc or Trigonometry/Pre Calc with a C or higher
3605	Computer Science	0.5	10,11,12	Algebra 1 with a B or Geometry with a C or higher
36C1	CHS Computer Science	0.5	9,10,11,12	Algebra 2 or Honors Geometry with a B or higher, Honors Algebra 2, Honors Geometry or Trig/Pre Calc with a C or higher
36A1	AP Computer Science	1.0	11,12	Computer Science with B or CHS Comp Sci with a C or higher
1510	SAT Prep	0.5	11,12	See English Department grid

MUSIC DEPARTMENT COURSES

Course #	Course Title	Credit	Grade Level	Prerequisites & Recommended Courses
6405	Symphonic Choir (full year)	1.0	9,10,11,12	9-12 boys & 11-12 girls only
6410	Symphonic Choir (semester)	0.5	9,10,11,12	
6415	Women's Choir (full year)	1.0	9,10 (11,12)	9-10 girls & any 11-12 girls who choose
6420	Women's Choir (semester)	0.5	9,10 (11,12)	

6425	Concert Band	1.0	9,10,11,12	Placement by audition/teacher recommendation
6435	Symphonic Band	1.0	9,10,11,12	Placement by audition/ teacher recommendation
6430	Wind Symphony	1.0	9,10,11,12	Placement by audition/ teacher recommendation
6437	Wind Ensemble	1.0	9,10,11,12	Placement by audition/ teacher recommendation
6440	Jazz Band	1.0	9,10,11,12	Placement by audition/ teacher recommendation
6446	String Orchestra	1.0	9,10,11,12	Placement by audition/ teacher recommendation
6447	Chamber Orchestra	1.0	9,10,11,12	Placement by audition/teacher recommendation
6459	Guitar Ensemble (semester)	0.5	9,10,11,12	
6461	Guitar Ensemble (full year)	1.0	9,10,11,12	
6465	Music Theory	0.5	9,10,11,12	
6470	Music Technology	0.5	10,11,12	Music Theory or teacher recommendation
64A1	AP Music Theory	1.0	10,11,12	Music Theory or teacher recommendation

SCIENCE DEPARTMENT COURSES

Course #	Course Title	Credit	Grade Level	Prerequisites & Recommended Courses
4110	Biology	1.0	9	Concurrently enrolled in or completion of Algebra 1
4111	Principles of Biomedical Science	1.0	9, 10	
4112	Medical Intervention	1.0	10-12	Biology
41P1	Honors Biology	1.0	9	A in 8 th grade Science or a B+ with teacher recommendation
41A1	AP Biology	1.0	11,12	Honors Biology & Honors/CHS Chemistry or an A in Biology/Chemistry
42T1	Conceptual Chemistry	1.0	10,11,12	Biology or Honors Biology & concurrently enrolled in or completion of Algebra 1
4210	Chemistry	1.0	10, 11,12	Biology or Honors Biology & C or better in Algebra 1
42P1	Honors Chemistry	1.0	10, 11,12	Concurrently enrolled in Honors Algebra 2 or higher honors level math course.
42C1	CHS Chemistry (College Connections)	1.0	10	Honors Biology & concurrently enrolled in AP World History & Honors Algebra 2 or higher.
42C2	CHS Chemistry 2	1.0	11,12	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.)
42A1	AP Chemistry	1.0	11,12	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.
4305	Conceptual Physics	0.5	11,12	Successfully completion of Chemistry and concurrently in Algebra I or higher
4310	Physics	1.0	11,12	Chemistry C or higher Concurrently enrolled in Algebra 2 or higher Mathematics.
43P1	Honors Physics	1.0	11, 12	Chemistry with B or Higher, or concurrently enrolled in Honors Chemistry, CHS Chemistry or AP Chemistry. Concurrently enrolled in Trigonometry or higher Mathematics.

43A1	AP Physics 1	1.0	10,11,12	Chemistry with B or Higher, or concurrently enrolled in Honors Chemistry, CHS Chemistry or AP Chemistry. Concurrently enrolled in Trigonometry or higher Mathematics.
43A2	AP Physics 2	1.0	11,12	Teacher Recommendation
43A3	AP Physics C	1.0	12	Teacher Recommendation
45C1	CHS Anatomy & Physiology 1	1.0	11,12	Biology, Chemistry
45C2	CHS Anatomy & Physiology 2	1.0	11,12	CHS Anatomy & Physiology 1
4405	Environmental Science	0.5	10,11,12	Biology
44P1	Honors Environmental Science	0.5	10,11,12	Honors Biology or a B or higher in Biology and Chemistry
44A1	AP Environmental Science	1.0	11,12	Honors Biology & Honors/CHS Chemistry or A in Biology & Chemistry. Honors Environmental Science preferred but not required.
4610	Astronomy	0.5	9,10,11,12	
4615	Forensic Science	0.5	11,12	Biology & Chemistry or Conceptual Chemistry

SOCIAL STUDIES COURSES

Course #	Course Title	Credit	Grade Level	Prerequisites & Recommended Courses
2110	American Studies	1.0	9	
21P1	Honors American Studies	1.0	9	B- or higher in 8 th grade Social Studies
2210	World History	1.0	10	American Studies
22P1	Honors World History	1.0	10	Honors American Studies with B- or higher
22A1	AP World History (Connections)	1.0	10	Honors American Studies with a B or higher & concurrently enrolled in CHS Chemistry
2310	American Government	1.0	11	World History
23P1	Honors American Government	1.0	11	Honors World History with B or higher or AP World History
2410	Contemporary History	0.5	12	Required if not taking an AP course
Social Studies Electives:				
11 th Grade: students may choose any of the semester elective courses – except Contemporary History--in addition to their required 11 th grade American Government or AP Social Studies courses.				
12 th Grade: students must be aware that FOUR Social Studies credits are required for graduation.				
25A2	AP European History	1.0	11,12	Senior Prerequisite: Any 11 th 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 higher or Honors World History with a B or higher
23A1	AP US Government & Politics	1.0	11,12	
25A1	AP US History	1.0	11,12	
2630	Economics	0.5	11,12	
2620	Law & Justice	0.5	11,12	
2625	Law & Justice – Civil Law	0.5	11,12	
2615	PA History & Government	0.5	11,12	
2610	Psychology	0.5	11,12	
26C1	CHS Psychology	0.5	11,12	Psychology

2605	Sociology	0.5	11,12	
26C2	CHS Cybersecurity and the Law	1.0	10,11,12	Honors World History with a B or higher, concurrent enrollment/successful completion of Honors or AP American Government with a B or higher, concurrent enrollment/successful completion of Law and Justice – Criminal Law with a B or higher, concurrent enrollment/successful completion of Computer Science or Web & Mobile App Design with a B or higher

TECHNOLOGY EDUCATION COURSES

Course #	Course Title	Credit	Grade Level	Prerequisites & Recommended Courses
Practical Skills Courses				
6695	Electricity & Electronics	0.5	9,10,11,12	
6635	Home Maintenance	0.5	9,10,11,12	
6305	Practical Skills for Life	0.5	9,10,11,12	See Course Description under Business
Engineering & Design Courses				
6699	The Art Of Making	0.5	9,10,11,12	
6640	Robotics & Engineering	0.5	9,10,11,12	
6690	Transportation Design	0.5	9, 10,11,12	
6675	Engineering Drawing & Design 1	1.0	9,10,11,12	
6315	Interior Design	0.5	9,10,11,12	
6680	Engineering Drawing & Design 2	1.0	10,11,12	Engineering Drawing & Design 1
6655	Architectural Design	0.5	10,11,12	Engineering Drawing & Design 1 or Interior Design
Multimedia Programming, Gaming & Simulation				
6672	Evolution of Games	0.5	9,10,11,12	
6674	Mobile Game Design	0.5	9,10,11,12	
66C5	CHS Game Design	0.5	10,11,12	Recommendation: Evolution of Games
6645	3D Modeling & Animation	0.5	9,10,11,12	
6670	3D Game Programming	0.5	10,11,12	3D Modeling & Animation Recommended
6671	2D Game Programming	1.0	10,11,12	Mobile Game Design
6676	Game Production and Marketing	0.5	11, 12	Complete at least (2) Multimedia Programming, Gaming & Simulation courses
Material Fabrication Technologies Courses: The following courses are double blocked				
6605	Introduction to Metal Technologies	1.0	9,10,11,12	
6610	Advanced Metal Technologies	1.0	9,10,11,12	Intro to Metal Technologies
6615	Material Engineering	1.0	10,11,12	
66C1	CHS Welding	1.0	10,11,12	Introduction to Metal Advanced Metal Material Engineering
6625	Introduction to Wood Technologies	1.0	9,10,11,12	
6630	Advanced Wood Technologies	1.0	10,11,12	Intro to Wood Technologies
6631	Advanced Furniture Engineering	1.0	10,11,12	Advanced Wood Technologies
6632	CNC Woodworking and Furniture Making	1.0	11,12	Advanced Furniture Engineering

Graphic & Web Design Courses				
6650	Graphic Design	1.0	10,11,12	Course is double blocked
6648	Web & Mobile App Design	1.0	9,10,11,12	Full year course

WORLD LANGUAGE COURSES

Course #	Course Title	Credit	Grade Level	Prerequisites & Recommended Courses
5505	World Language & Culture Enrichment	0.5	10,11,12	French 2, German 2 or Spanish 2
5105	French 1	1.0	9,10,11,12	
5110	French 2	1.0	9,10,11,12	French 1 with a D or higher
5115	French 3	1.0	10,11,12	French 2 with a C- or higher, or teacher recommendation
51P1	Honors French 3	1.0	10,11,12	French 2 with a B- or higher, or teacher recommendation
51P2	Honors French 4	1.0	11,12	French 3 with a B or higher & teacher recommendation or Honors French 3 with a C- or higher
51C1	CHS French 1	1.0	11,12	French 3, Honors French 3 or Honors French 4 with a B- or higher, or teacher recommendation
51C2	CHS French 2	1.0	12	CHS French 1 with a C- or higher, or teacher recommendation
5205	German 1	1.0	9,10,11,12	
5210	German 2	1.0	9,10,11,12	German 1 with a D or higher
5215	German 3	1.0	10,11,12	German 2 with a C- or higher, or teacher recommendation
52P1	Honors German 3	1.0	10,11,12	German 2 with a B- or higher, or teacher recommendation
52P2	Honors German 4	1.0	11,12	German 3 with a B or higher & teacher recommendation or Honors German 3 with a C- or higher
52C1	CHS German 1	1.0	11,12	German 3, Honors German 3, or Honors German 4 with a B- or higher, or teacher recommendation or higher
52C2	CHS German 2	1.0	12	CHS German 1 with a C- or higher, or teacher recommendation
5305	Latin 1	1.0	9,10,11,12	
5310	Latin 2	1.0	9,10,11,12	Latin 1 with a D or higher
5315	Latin 3	1.0	10,11,12	Latin 2 with a C- or higher, or teacher recommendation
53P1	Honors Latin 3	1.0	10,11,12	Latin 2 with a B- or higher, or teacher recommendation
53C2	CHS Latin Prose	1.0	11,12	Latin 3, Honors Latin 3, or CHS Latin Verse with B- or higher Or with teacher recommendation
53C3	CHS Latin Verse	1.0	12	Latin 3, Honors Latin 3, or CHS Latin Prose with B- or higher or with teacher recommendation
5405	Spanish 1	1.0	9,10,11,12	
5410	Spanish 2	1.0	9,10,11,12	Spanish 1 with a D or higher
5415	Spanish 3	1.0	10,11,12	Spanish 2 with a C- or higher, or teacher recommendation
54P1	Honors Spanish 3	1.0	10,11,12	Spanish 2 with a B- or higher, or teacher recommendation

54P2	Honors Spanish 4	1.0	11,12	Spanish 3or Honors Spanish 3 with a C- or higher, or teacher recommendation
54C1	CHS Spanish 1	1.0	11,12	Spanish 3, Honors Spanish 3 or Honors Spanish 4 with a B- or higher, or teacher recommendation.
54A1	CHS Spanish 2	1.0	12	CHS 1 with a C- or higher, or teacher recommendation

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

In this course students work cooperatively to create and shoot a variety of short films. We will experience all aspects of filmmaking from planning to production. Students are asked to bring creativity and enthusiasm for movies as inspiration. Cameras and equipment will be provided.

Grade Level: 9-12

FILMMAKING 2

6180 0.5 CREDIT

This course continues to explore the art of filmmaking while allowing students to build skills in a cooperative environment. We will be creating a variety of short films, editing and building soundtracks. Cinematography, lighting, sound and editing are covered. 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. Aspects of cinematography, lighting, sound and editing are further explored. Students explore special effects and computer generated effects in this course. All equipment is provided.

*Prerequisite: Filmmaking 2.
Grade Level: 10, 11, 12*

FILMMAKING 4

6190 0.5 CREDIT

In this advanced course, students make films with the instructor's approval and close supervision. Advanced cinematography, lighting, sound and editing are further explored. Students may also further explore special effects development and computer generated imagery (CGI) in this course. Fully edited short films with edited soundtracks (voice, music, sound effects, etc.) will be completed. The focus is to complete high production value content suitable for audiences. All equipment is provided.

*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 course is an introduction to the art of Photography. Students will learn the basics of capturing images using digital cameras and basic image editing software. Other topics include exposure, composition, lighting, camera lens operation and digital file formats. Students will explore photography both in the studio and outside the classroom as they develop and improve their creative and technical skills. 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 course is designed to enrich the learning for students who have successfully completed Photography 1. Students will continue to explore photography both in the studio and outside the classroom as they utilize the digital cameras and technology to photograph unique images, and further explore Adobe Photoshop to take control of the creative process. Other topics include exposure, creative composition, advanced lighting techniques, camera lens operation and digital file formats. This class will also focus on history, criticism, theory, aesthetics and art techniques as they apply to advanced photography methods.

Prerequisite: Photography 1.

Grade Level: 9 – 12

POTTERY 1**6120 0.5 CREDIT**

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**61C1 0.5 CREDIT**

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**6125 0.5 CREDIT**

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: 10, 11 & 12

STUDIO ART 1**6105 0.5 CREDIT**

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: 9 - 12

STUDIO ART 2**6110 0.5 CREDIT**

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: 9 - 12

SCULPTURE 1**6130 0.5 CREDIT**

Sculpture 1 will expand on the student's experiences from Pottery 1 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**6135 0.5 CREDIT**

Sculpture 2 will enrich student experience from Sculpture 1 through further development of the three-dimensional form using wheel-thrown techniques. Students will continue to work 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: Sculpture 1.

Grade Level: 9 - 12

AP STUDIO ART: POTTERY/3D**61A2 1.0 CREDIT**

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 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**61A1 1.0 CREDIT**

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**61A3 1.0 CREDIT**

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, and Teacher Recommendation
Grade Level: 10 – 12

AP ART HISTORY**61A4 1.0 CREDIT**

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/AP course and Teacher Recommendation
Grade Level: 11 & 12

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

TELEVISION PRODUCTION 1**1725 0.5 CREDIT**

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

TELEVISION PRODUCTION 2**1730 0.5 CREDIT**

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**1735 0.5 CREDIT**

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**1740 0.5 CREDIT**

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.

Prerequisite: Television Production 3.

Grade Level: 10, 11, 12

THEATER PRODUCTION AND SET DESIGN**1745 0.5 CREDIT**

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 fabrication 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

VISUAL FX FOR FILM AND TELEVISION**1746 0.5 CREDIT**

In the Visual Effects for Film and Television course, you'll be introduced to the various techniques used to create VFX. Your studies will focus on the software tools used to create visual effects and animation and the combining of these effects with live action footage. This course serves as an introduction to the creation of extraordinary cinematic visions using a variety of digital tools and techniques. Primary software tools are Adobe After Effects and Photoshop. The student's demo reel will serve as the final exam.

This course provides training in:

- Masking, keying-matte creation, motion tracking, image stabilization
- 3D visual effects such as particle systems, motion graphics and texture mapping
- 2D/3D integration
- 3D Rendering and Lighting
- 3D Tracking

Prerequisites: Filmmaking 1 or Television Production1

Grade Level: 9 -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.

ACCOUNTING 1**6210 CREDIT 1.0**

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 to help make personal finance decisions as well as business decisions. 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 accounting principles, applications, and terminology. Students will have an opportunity to explore careers in accounting, and examine real world accounting for such companies as: Nike, Netflix, Google, Boeing, and American Eagle. Since accounting is a core requirement for all business majors in college (such as economics, finance, management, marketing, international business and accounting), it is highly recommended that Accounting 1 be scheduled in the underclassmen years. Upon successful completion of Accounting I, students are eligible to enroll in CHS Accounting II.

Grade Level: 9-12

CHS ACCOUNTING 2**62C4 CREDIT 1.0**

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 methods, accruals and deferrals, disposition of plant assets, advanced year-end adjustments, acquiring additional capital, and applying generally accepted accounting principles (GAAP). Financial statement preparation, analysis, and decision-making will be emphasized throughout the course. Students will gain hands-on problem solving skills using on-line working papers, Excel, and simulations to apply and reinforce accounting concepts. Students will have an opportunity to explore careers in accounting, and examine real world accounting for such companies as: Home Depot, Johnson & Johnson, Target, Pandora, and Southwest Airlines. Students who enroll in this course and wish to earn three college credits may register with La Roche College and pay a course fee (was \$210 in 2017-18). This course is highly 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.

Prerequisite: Accounting 1.

Grade Level: 10, 11 & 12

INNOVATION AND ENTREPRENEURSHIP**6221 CREDIT 0.5**

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 innovator and entrepreneur. Turn your innovative ideas into a viable business venture. Students will create a business and pitch their idea to a panel of judges. Top business plans will win prizes. We have created a community of local innovators and entrepreneurs that visit our classroom throughout this semester course. 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!

Grade Level: 9- 12

CAREER AND FINANCIAL LITERACY**6244 CREDIT 0.5**

Making the transition from middle school to high school poses many challenges for a freshman. This course helps students to cultivate skills and develop a blueprint for a career choice while providing strategies to help students become an active participant in their high school community. Students will discover career areas and develop a personalized career and education plan that matches their learning styles, interests, skills and values as well as labor market trends using web-based career and education assessments, research, and planning tools. The course focuses on career and education planning emphasizing strategies for career exploration beyond the classroom including: joining clubs, conducting information interviews, volunteering, career shadowing, and making appropriate course selections. Students will explore the job application process and create and discover ways to build their resumes, employment, and college documents throughout high school in and outside of the classroom. Banking and finance lessons are also incorporated throughout the course to help students get a realistic sense of how to properly manage a bank account, understand paychecks, and simulate how their career choice impacts their personal budget and consumer choices. Throughout the course, students will learn the power of a positive attitude and important communications skills and strategies for networking and developing strong personal relationships. Students will develop documentation and artifacts required for PA 339 Career and Education Standards using Career Cruising, designed to enhance and share communications about students' educational and career plans with teachers, counselors, and parents.

This course is highly recommended for students enrolled in any of the six academic academies. Grade Level: 9- 12

CAREER & PERSONAL PLANNING**6245 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 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

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 LaRoche College and pay a nominal course fee. Ninth grade students are ineligible to earn college credits.

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

CHS SPORTS ARTS AND ENTERTAINMENT MANAGEMENT**62C3 CREDIT 0.5**

This course, offered in collaboration with Point Park University, wukk taje tiy ib a step-by-step journey through the exciting world of sports and entertainment marketing/management. It was developed in response to national and regional growth in the Sports and Entertainment sector of the economy and the recognition of its inclusion in over 100 college and university business programs. The course is interdisciplinary in nature with a focus on the management of venues, sports, musicians, artists, and events. The course will develop critical thinking, decision making, and communication skills through real world applications aimed at preparing students to handle specific tasks associated with the industries. This course is designed to provide future managers with a solid business foundation, as well as knowledge of the unique facets of the Sports and Entertainment Industries. Field trips to Heinz Field, PNC Park, Stage AE, the Benedum Center, PPG Paints Arena, and more, are part of the curriculum.

Grade Level: 10, 11, 12

INTERNATIONAL BUSINESS & ETHICS**6231 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 and 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 and in college, as well as on the state-mandated Keystone tests. The course focuses on grammar, mechanics, usage, and vocabulary development as they apply to writing and speaking.

Prerequisite: A grade average 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 Art 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 through 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.

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.

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.

ADVENTURE & QUEST**1420 CREDIT 0.5**

This course will trace the epic concept from classic to modern texts. Major works read include *The Hobbit*, *The Martian*, *Beowulf*, *The Things They Carried*, and selections from *The Odyssey*. 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 narratives, children's stories, playwriting, poetry and fiction.

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 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

JOURNALISM 3**1613 CREDIT 0.5**

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

JOURNALISM 4**1614 CREDIT 0.5**

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

YEARBOOK 1**1625 CREDIT 0.5**

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

YEARBOOK 2**1626 CREDIT 0.5**

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

YEARBOOK 3**1627 CREDIT 0.5**

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

YEARBOOK 4**1628 CREDIT 0.5**

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**1515 CREDIT 0.5**

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 Reading 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 pace 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**1717 CREDIT 0.5**

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 fee.

Grade Level: 11, 12

SCREENWRITING**1717 CREDIT 0.5**

This course developed thorough 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 theme 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**1753 CREDIT 0.5**

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

ACTING IV**1754 CREDIT 0.5**

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

VOICE AND DICTION**1722 CREDIT .05**

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. Students are provided the opportunity to explore career opportunities and creative expression while mastering skills that they will use in daily living for the rest of their lives. Students may choose from courses that explore an understanding of human growth and development, gain appreciation and knowledge of nutrition concepts, cooking styles and techniques, and advanced skills in fashion and design.

NUTRITION, FOOD & WELLNESS**6872 CREDIT 0.5**

We live in a society where fast food, convenience products and portion distortion are having adverse effects on our health. Learn how to decode food labels and nutritional claims while fueling your body with the right foods for healthy living. Healthy food preparation labs and creating our school garden will be an integral part of the learning experience as students conduct recipe make-overs to lower fat, sugar and sodium in recipes while exploring ways to boost the fiber, vitamin and mineral content. Student athletes will also learn ways to maximize their nutritional intake by considering their sports-specific needs.

Grade Level: 9- 12

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

THE FUTURE OF FOOD: HEALTHY SUSTAINABLE FOOD FOR ALL**6327 CREDIT 0.5**

Everyday we make numerous choices about what to eat, and what not to eat. To achieve lasting behavioral change, we must also learn the social, political, economic and emotional issues that impact the food system and our food choices. How do consumers and

households make these choices, and how can these choices ENHANCE sustainability without sacrificing our health and enjoyment of food? Join the Food Fight and be prepared to think about your food choices, food politics and the food industry in a whole new way.

Grade Levels: 10-12

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

6350 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

CREATIVE SEWING 2

6311 CREDIT 0.5

This advanced course is designed for students who want to build on sewing skills acquired in Creative Sewing. This class focuses on advanced sewing techniques and design and uses creativity as a form of self-expression. Students are expected to work on an individual level and map out their own creative strategy. Fashion garments, backpacks/tote bags, denim items, sweatshirts, quilts, accessories and home decor items are suggested projects for level 2 students. Embellishing techniques, embroidery computer technology and serger machine methods are taught.

Note: Students are required to provide the necessary supplies for their individual sewing projects

Prerequisite: Creative Sewing 1

CREATIVE SEWING 3

6313 CREDIT 0.5

This course is designed for students who want to build on previous acquired sewing skills. Projects will focus on advanced clothing construction. Further development and detailed investigation of textiles used in clothing construction is part of the course and final projects. Projects might include pants/tops or skirt, rompers/jumpsuits, skirts, prom dresses, duffle bags. A fashion portfolio including a collection of sketches of outfits, textile swatches, and other various techniques will be completed by all students.

Note: Students are required to provide the necessary supplies for their individual sewing projects

Prerequisite: Creative Sewing 2

CREATIVE SEWING 4**6314 CREDIT 0.5**

This advanced class offers the student the opportunity to extend the skills learned in Fashion & Sewing and Creative Sewing 1, 2, and 3. An increasingly challenging variety of projects will be offered to improve student skill level. This course allows the advanced fashion student to work on individual projects focusing on refining technical skills and demonstrating creativity in design and embellishments. Students will be required to prepare a fashion portfolio including fashion era's, fashion designers, elements and principles of design, silhouettes, textiles in fashion, fashion careers and other fashion related topics.

Note: Students are required to provide the necessary supplies for their individual sewing projects.

Prerequisite: Creative Sewing 3

Grades 11-12

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

CHS CHILD GROWTH AND DEVELOPMENT**63C2 CREDIT 0.5**

This course examines human development from conception through adolescence. Utilizing the MyVirtualChild simulated program, students will raise a child from birth to age 18 and monitor the effects of their parenting decisions over time. Interactive class activities, simulations and discussions will guide the instruction as students explore the physical, cognitive and social-emotional development of children and adolescents. Typical and atypical behavior, and mental health issues as they relate to and impact children will also be addressed. 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.

Grades: 10-12

Health & Physical Education Department

All students are **required** to successfully complete a 0.5 credit of health to meet graduation requirements. All students are also **required** to complete a 0.5 credit of coursework in one of following **Personal Fitness courses listed below to meet the graduation requirements**. Students participating in the Physical Education courses are required to wear a district approved gym uniform. There is a nominal charge for the uniform.

HEALTH**6505 CREDIT 0.5**

The purpose of this required 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

PERSONAL FITNESS: CARDIO AND LIFETIME FITNESS**6506 CREDIT 0.5**

The purpose of this course is to offer each student the opportunity to gain understanding of the fitness principles necessary for achieving lifelong fitness. This course is designed to help students achieve and develop overall physical fitness through activities that will help them build strength, endurance and flexibility. This encompasses cardiovascular fitness, muscular strength, muscular endurance, and coordination.

PERSONAL FITNESS: CREATIVE MOVEMENT

6507 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

PERSONAL FITNESS: FOUNDATIONS OF YOGA, PILATES AND MINDFULNESS

6508 CREDIT 0.5

The Foundations of Yoga, Pilates and Mindfulness course is a customizable approach to stress reduction by increasing confidence, awareness and flexibility while decreasing personal judgement. Various yoga, Pilates and self-defense techniques will be utilized.

Grade Level: 9-12

PERSONAL FITNESS: SPORTS AND RECREATION

6509 CREDIT 0.5

Fitness and Sports offers each student an opportunity to develop and enhance the use of physical, social, mental, and 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

PERSONAL FITNESS: STRENGTH AND CONDITIONING

6511 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 ELECTIVES

Once a student has completed their Personal Fitness graduation requirement by successfully completing one (1) Personal Fitness Course listed above, a student is permitted to take additional Personal Fitness courses listed above and any of the Health and Personal Fitness electives listed below to meet their elective requirements for graduation.

LIFEGUARD CERTIFICATION, FIRST AID AND CPR

6566 CREDIT 0.5

The purpose of this course is to provide entry-level lifeguard participants with the knowledge and skills to prevent, recognize and respond to aquatic emergencies. These include providing care for breathing and cardiac emergencies, injuries, and sudden illness care until EMS takes over. This course has physical requirements (at least 15 years of age and an ability to swim) along with a fee for certifications.

Grade Level: 9, 10, 11, 12

PRACTICAL SKILLS FOR LIFE

6305 CREDIT 0.5

This classroom 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 and 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

OUTDOOR ADVENTURES**6567 CREDIT 0.5**

The purpose of this course is to explore, discover and understand the outdoors. You will have an opportunity to learn environmental and survival skills, trust and leadership, overcoming adversity, problem solving skills, and team building. Units may include: kayaking, canoeing, fly fishing, rock climbing and fitness for the outdoors.

Grade Level: 9, 10, 11, 12

SPORTS OFFICIATING AND PRINCIPALS OF COACHING**6568 CREDIT 0.5**

This classroom course is designed for students to study the art, science, industry standards, and best practices of the officiating profession across all levels of sport; as well as teach students the expectations and ethical problems facing developmental sport programs for youth and athletic coaches today. This course will provide hands-on experience working in teams, combined with a study of moral and ethical philosophy along with best practices from sport thought-leaders, to explore ways to handle these concerns. At the conclusion of this course students will be given the opportunity to become a certified PIAA sports official.

Grade Level: 9, 10, 11, 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, 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 required for this course.

*Prerequisite: Algebra 1.
Grade Level: 9-12*

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 including congruence and similarity, 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 required for this course.

*Prerequisite: Algebra 1 with an "B+" or higher.
Grade Level: 9, 10*

ALGEBRA 2**3310 CREDIT 1.0**

Algebra 2 is the third of three academic courses in the math program. The content of this course focuses on families of functions including linear, quadratic, exponential, logarithmic, and radical and rational functions. Students will learn to represent these functions as verbal models, equations, tables and graphs and apply them to solving applications. Topics on probability, data analysis, geometry, sequences, and series are addressed as well. A graphing calculator is required for this course.

*Prerequisite: Geometry
Grade Level: 9, 10, 11*

HONORS ALGEBRA 2**33P1 CREDIT 1.0**

Honors Algebra 2 is the third of three academic courses in the math program. The course is organized around families of functions including linear, quadratic, higher order polynomial, radical, rational, exponential, and logarithmic. Students will learn to represent

these functions in multiple format including verbal descriptions, equations, tables and graphs; and use these functions to model real-world situations using functions in order to solve problems arising from those situations. This course will also address topics in probability, data analysis, sequences, and series involving geometry and basic trigonometry. A graphing calculator is required for this course.

Prerequisite: Honors Geometry with a "B" or higher.

Grade Level: 9, 10, 11

COLLEGE ALGEBRA

3405 CREDIT 0.5

This course is designed for students who would like to improve their algebraic skills and prepare for college level math. This course reviews and expands upon algebra concepts from Algebra II with a focus on preparation for the SAT/ACT, ASVAB, and college mathematics placement exams. A graphing calculator is required for this course.

Prerequisite: Algebra 2.

Grade Level: 11 or 12

TRIGONOMETRY

3410 CREDIT 0.5

Trigonometry is the study of triangles, circles, and how they relate. This semester course focuses on the trigonometry of right triangles, the unit circle and trigonometric functions of any angle, circular and trigonometric functions, identities, and analytic trigonometry, and applications of functions to the right triangle. A graphics calculator is required 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, including right triangle trigonometry, trigonometric functions of any angle, graphing trigonometric functions, analytic trigonometry, and the study of conic sections. Applications including right triangles, oblique triangles, and vectors are discussed as well. A graphing calculator is required for this course.

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

Grade Level: 11, 12

HONORS TRIGONOMETRY / 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 graphing calculator is required 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 graphing calculator will be used for problem-solving activities in class and for homework problems and is required for this course. All students are required to take the AP Calculus (AB) in the spring.

Prerequisite: Honors Trig/Pre-Calc with a "B" or higher

Grade Level: 12

AP CALCULUS (BC)

35A2 CREDIT 1.0

AP Calculus (BC) is the second level of the AP Calculus program. Topics include: differential calculus, basic and advanced integration techniques, applications of derivatives and integrals, the calculus of transcendental functions, sequences and power series, parametric and polar equations, the study of vectors, and the calculus of several variables. A graphing calculator is required for this course. 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 by paying a fee of \$300 to

the university. Students enrolling for university credits must pass an online placement test as well, which has a fee of \$25. The concepts taught in this course include a review of precalculus topics, limits, differentiation, integration and problem solving with emphasis on applications in the social sciences - especially business and economics. Graphic calculators are required for this course.

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 may register with the University of Pittsburgh and pay a fee of \$300. A graphing calculator is required for this course.

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 or Trigonometry/Precalc with an "A-" or higher.

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 investigate data types and variables, input / output techniques, mathematical expressions, flow control including selection statements and loop structures, additional methods and modularity, and array structures. Students successfully completing this course may take CHS or AP Computer Science.

Prerequisite: Geometry

Grade Level: 10, 11, 12

CHS COMPUTER SCIENCE

36C1 CREDIT 0.5

This one semester intermediate JAVA course is designed for students with some experience in computer programming. The course begins with a brief look at the JAVA fundamentals of variables, data types, arithmetic expressions, and input and output. JAVA Flow control structures and additional methods reading and writing files, one- and two-dimensional array structures are then addressed. The latter part of the course focuses on objects and the basics of object-oriented programming. Students have the option to enroll for 3 credits through the University of Pittsburgh for a fee.

Prerequisite: Algebra 1 with a "B" or higher or Geometry with a "C" or higher. Grade Level: 9, 10, 11

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 and CHS Computer Science courses 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 an introduction to using graphical user interfaces (GUI's). All students are required to take the AP Computer Science exam in the spring.

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

Grade Level: 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 pace 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.

SYMPHONIC CHOIR

6405 FULL YEAR CREDIT 1.0
6410 HALF YEAR CREDIT 0.5

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.

WOMEN'S CHOIR

6415 FULL YEAR CREDIT 1.0
6420 HALF YEAR CREDIT 0.5

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.

CONCERT BAND

6425 CREDIT 1.0

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.

WIND SYMPHONY

6430 CREDIT 1.0

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.

SYMPHONIC BAND

6435 CREDIT 1.0

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.

WIND ENSEMBLE

6437 CREDIT 1.0

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 rehearsals and performances are a requirement of this course.

JAZZ BAND**6440 CREDIT 1.0**

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 performances are a requirement of this course.

STRING ORCHESTRA**6446 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 and placed into this ensemble through audition and recommendation of the instructor.

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

CHAMBER ORCHESTRA**6647 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 and placed into this ensemble through audition and recommendation of the instructor.

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

GUITAR ENSEMBLE**6460 CREDIT 0.5**
6461 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: "Students will be required to perform in one evening performance per semester as this will be their final exam."
Students may elect this class for one semester or a full year.

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

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*, and *ProTools*.

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

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. All students are required to take the AP Music Theory exam in the spring.

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.

BIOLOGY**4110 CREDIT 1.0**

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.

*Prerequisite: Completed or concurrently enrolled in Algebra I
Grade Level: 9*

HONORS BIOLOGY**41P1 CREDIT 1.0**

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.

*Prerequisite: "A" in 8th Grade Science or "B+" with Teacher Recommendation
Grade Level: 9*

PRINCIPLES OF BIOMEDICAL SCIENCE**4111 CREDIT 1.0**

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.

Grade Level: 9, 10

MEDICAL INTERVENTIONS**4112 CREDIT 1.0**

Medical Interventions (MI) allows students to investigate the variety of interventions involved in the prevention, diagnosis, and treatment of disease as they follow the lives of a fictitious family. A "How-To" manual for maintaining overall health and homeostasis in the body, the course will explore how to prevent and fight infection, how to screen and evaluate the code in our DNA, how to prevent, diagnose, and treat cancer, and how to prevail when the organs of the body begin to fail. Through these scenarios students will be exposed to the wide range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. Each family case scenario will introduce multiple types of interventions, reinforce concepts learned in the previous two courses, and present new content. Interventions may range from simple diagnostic tests to treatment of complex diseases and disorders. These interventions will be showcased across the generations of the family and will provide a look at the past, present, and future of biomedical science. Lifestyle choices and preventive measures are emphasized throughout the course as well as the important role that scientific thinking and engineering design play in the development of interventions of the future. Students practice problem solving with structured activities and progress to open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills.

*Prerequisite: Biology
Grade levels: 10-12*

AP BIOLOGY**41A1 CREDIT 1.0**

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. All students are required to take the AP Biology exam in the spring.

*Prerequisite: Honors Biology and Honors/CHS Chemistry or an "A" in Biology/Chemistry.
Grade Level: 11, 12*

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

CONCEPTUAL CHEMISTRY**42T1 CREDIT 1.0**

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.

*Prerequisites: Biology or Honors Biology & concurrently enrolled in or completion of Algebra 1
Grade Level: 10, 11, 12*

CHEMISTRY**4210 CREDIT 1.0**

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.

Prerequisite: Biology or Honors Biology & C or better in Algebra 1

Grade Level: 10, 11, 12

HONORS CHEMISTRY**42P1 CREDIT 1.0**

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 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**

Offered in cooperation with the University of Pittsburgh, CHS Chemistry provides the opportunity for students who are enrolled in College Connections to earn 4 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: 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: 11, 12

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. All students are required to take the AP chemistry given in the spring.

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 1 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**43P1 CREDIT 1.0**

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**43A1 CREDIT 1.0**

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. All students are required to take the AP Physics 1 exam in the spring.

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 Level: 10, 11, 12

AP PHYSICS 2**43A2 CREDIT 1.0**

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. All students are required to take the AP Physics 2 exam in the spring.

Prerequisite: Teacher Recommendation

Grade Level: 11, 12

AP PHYSICS C**43A3 CREDIT 1.0**

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. All students are required to take the AP Physics C exam in the spring.

Prerequisite: Teacher recommendation.

Grade Level: 12

CHS ANATOMY & PHYSIOLOGY 1**45C1 CREDIT 1.0**

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

45C2 CREDIT 1.0

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: Biology.
Grade Level: 10, 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. All students are required to take the AP Environmental Science exam in the spring.

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*

Social Studies Department

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 Western 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: 10

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

2410 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. All students are required to take the AP European History exam in the spring.

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. All students are required to take the AP US Government & Politics exam in the spring.

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. All students are required to take the AP US History exam in the spring.

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

CHS CYBERSECURITY AND THE LAW**26C2 CREDIT 1.0**

In the physical world, we publish rules (laws) to govern our interactions with one another. These rules tell us what behaviors are permissible and what responsibilities we have to one another. In cyberspace, where these rules exist - and what they require - are less clear. This course explores questions surrounding how we "govern" cyberspace in the context of cybersecurity and privacy issues. We will examine a series of examples, both real world and hypothetical, to investigate what policy "tools" are in-place, available, and should be available to address Internet security and privacy issues. There will be a cost associated with being enrolled at the University of Pittsburgh due to the fact that this course will be offered as part of their College in High School program. This year the cost is \$245 for a three credit course; however, the final cost will be determined by the university.

Prerequisites: Honors World History with a B or higher, concurrent enrollment/successful completion of Honors or AP American Government with a B or higher, concurrent enrollment/successful completion of Law and Justice – Criminal Law with a B or higher, concurrent enrollment/successful completion of Computer Science or Web & Mobile App Design with a B or higher

ECONOMICS**2630 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 – CRIMINAL LAW**2620 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 OJ Simpson, Charles Manson, Jon Benet Ramsey, Jeffrey Dahmer, and others are used to enhance the learning experience.

Grade Level: 11, 12

LAW & JUSTICE – CIVIL LAW**2625 CREDIT 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 CREDIT 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 CREDIT 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 CREDIT 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 with a B or higher

Grade Level: 11, 12

SOCIOLOGY**2605 CREDIT 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.

THE ART OF MAKING: HANDS ON SYSTEM DESIGN AND ENGINEERING**6669 CREDIT 0.5**

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.

Grade Level 9-12

ENGINEERING DRAWING & DESIGN 1**6656 CREDIT 1.0**

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**6680 CREDIT 1.0**

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**6655 CREDIT 0.5**

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**6315 CREDIT 0.5**

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

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.

NOTE: 3D Modeling & Animation is recommended

Grade Level: 10, 11, 12

CHS WEB & MOBILE APP DESIGN**66C4 CREDIT 1.0**

CHS 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 and Adobe Illustrator to create graphic designs for the web. In the web design unit, students will create compelling, usable websites using the latest web standards, web application programming and Adobe Dreamweaver. Throughout the interactive animation unit, students will create a variety of interactive projects using Adobe Animate. In the mobile app design unit, students will create mobile applications using Adobe Animate and mobile application programming. Students who enroll in this course are eligible to earn 6 college credits (MMC 111 & MMC 228) at CCAC. Students will pay a nominal course fee and must earn a C or higher to receive the 6 college credits. CCAC recognizes this course as an honors level class.

Grade Level: 9, 10, 11, 12

2D GAME PROGRAMMING**6671 CREDIT 1.0**

In 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.

Grade Level: 10,11, 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

CHS GAME DESIGN**66C5 CREDIT 0.5**

CHS Game Design is a project-based course that will teach the fundamentals of game design and game development through the use of 21st century technology and skills. Throughout the course, students will learn the fundamentals of 3D modeling, 3D printing, prototyping, and iteration by creating a variety of board games that can be played with friends. Students who enroll in this course are eligible to earn 3 college credits (MMC 160) at CCAC. Students will pay a nominal course fee and must earn a C or higher to receive the 3 college credits. CCAC recognizes this course as an honors level class.

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.

Grade Level: 9-12

GAME PRODUCTION AND MARKETING**6676 CREDIT 0.5**

It's time to put your game design skills to use for a client! Throughout this course, students will divide into teams to create and market an original game for a client. Game Production and Marketing offers unique and exciting opportunities to work with businesses, non-profits, schools, and other community organizations to gain experience with "real-world" clients. Flex your creative muscle and get your "blueprint for success."

Grade Level 11, 12

Recommendation: Complete at least (2) Multimedia Programming, Gaming & Simulation courses

GRAPHIC DESIGN**6650 CREDIT 1.0**

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.

Grade Level: 10, 11 & 12

ROBOTICS & ENGINEERING**6640 CREDIT 0.5**

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 an autonomous drone throughout the campus. Careers in Mechanical Engineering, Robotic Engineering, Electrical Engineering, Mechatronics Engineering, and Programming will be explored.

Grade Level: 9- 12

ELECTRICITY & ELECTRONICS**6695 CREDIT 0.5**

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.

Grade Level: 9-12

HOME MAINTENANCE**6635 CREDIT 0.5**

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.

Grade Level: 9-12

CHS WELDING**66C1 CREDIT 1.0**

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.

Prerequisite: Intro to Metal, Advanced Metal, and Material Engineering

INTRODUCTION TO METAL TECHNOLOGIES**6605 CREDIT 1.0**

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.

*Grade Level: 9-12**Note: Course 1 of the CHS Welding Program***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: 9-12**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***ADVANCED FURNITURE ENGINEERING****6631 CREDIT: 1.0**

This is the third level of wood technology at the high school. This course is designed to further develop the skills of the students in both engineering design and project development. Through the use of the wood technology lab, the students will be able to design and construct more detailed and advanced pieces of furniture. They will also be further introduced to CNC equipment and design software.

*Prerequisites: Introduction to Wood Technologies, Advanced Wood Technologies**Grade Level: 10 – 12***CNC WOODWORKING AND FURNITURE MAKING****6632 CREDIT: 1.0**

This is the final level of wood technology at the high school, and is a culminating curriculum that covers everything from furniture making to in-depth CNC machining. The course is highly independent in nature, and the students must obtain instructor approval, as well as have excelled in the previous wood technology courses. Through the use of design software and CNC equipment the students will begin to develop higher level skills in manufacturing technology. They will produce a variety of items demonstrating their ability to engineer and design products, as well as problem solve to see them into fruition.

*Prerequisites: Introduction to Wood Technologies, Advanced Wood Technologies, Advanced Furniture Engineering**Grade Level: 11 – 12*

World Language Department

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 & CULTURE ENRICHMENT

5505 CREDIT 0.5

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

5105 CREDIT 1.0

Students will be introduced to various aspects of French and Francophone 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

5110 CREDIT 1.0

Students will continue to expand their study of various aspects of French and Francophone 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 D or higher.

Grade Level: 9- 12

FRENCH 3

5115 CREDIT 1.0

Students will refine their study of various aspects of French and Francophone 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

51P1 CREDIT 1.0

Through rigorous study and a challenging pace, students will refine their study of various aspects of French and Francophone 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 C- or higher. Grade Level: 10,11,12

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

HONORS FRENCH 4

51P2 CREDIT 1.0

Through rigorous study and a challenging pace, students will refine their study of various aspects of French and Francophone 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 or 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.

CHS FRENCH 1

51C1 CREDIT 1.0

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.

CHS FRENCH 2**51C2 CREDIT 1.0**

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 "C-" or higher.

Grade Level: 12

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

GERMAN 1**5205 CREDIT 1.0**

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

GERMAN 2**5210 CREDIT 1.0**

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 "D" or higher.

Grade Level: 9- 12

GERMAN 3**5215 CREDIT 1.0**

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

HONORS GERMAN 3**52P1 CREDIT 1.0**

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: 10,11, 12

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

HONORS GERMAN 4**52P2 CREDIT 1.0**

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 or teacher recommendation or Honors German 3 with a "C-" 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**52C1 CREDIT 1.0**

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**52C2 CREDIT 1.0**

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 C- 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	5305	CREDIT 1.0
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. <i>Grade Level: 9- 12</i>		
LATIN 2	5310	CREDIT 1.0
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. <i>Prerequisite: Latin 1 with a D or higher.</i> <i>Grade Level: 9- 12</i>		
LATIN 3	5315	CREDIT 1.0
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. <i>Prerequisite: Latin 2 with a C- or higher.</i> <i>Grade Level: 10, 11, 12</i>		
HONORS LATIN 3	53P1	CREDIT 1.0
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. <i>Prerequisite: Latin 2 with a "B-" or higher. Grade Level: 9 - 12</i> <i>NOTE: This course has summer assignments; students should collect the materials before they leave school for the summer.</i>		
CHS LATIN PROSE	53C2	CREDIT 1.0
CHS Latin Prose is offered in cooperation with the University of Pittsburgh. This course, which can be taken the 4 th 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 will read selections from Caesar's Gallic War Commentaries. This is an introduction to continuous Latin prose and will pay close attention to the art of Caesar's clear and deceptively simple style. They will also read an English translation of the whole work, <i>The Gallic War</i> , for in-class discussion. Students who successfully complete this course have the option to purchase credits through the University of Pittsburgh for a nominal fee. <i>Prerequisite: Latin 3 with a "B-" or higher or teacher recommendation or Honors Latin 3 with a "B-" or higher.</i> <i>Grade Level: 11, 12</i> <i>NOTE: This course has summer assignments; students should collect the materials before they leave school for the summer.</i>		
CHS LATIN VERSE	53C3	CREDIT 1.0
CHS Latin Verse is offered in cooperation with the University of Pittsburgh. This course, which can be taken in the 5 th 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. <i>Prerequisite: Latin 3, Honors Latin 3, or CHS Latin Prose with B- or higher or teacher recommendation</i> <i>Grade Level: 12</i> <i>NOTE: This course has summer assignments; students should collect the materials before they leave school for the summer.</i>		
SPANISH 1	5405	CREDIT 1.0
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. <i>Grade Level: 9- 12</i>		
SPANISH 2	5410	CREDIT 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. <i>Prerequisite: Spanish 1 with a D or higher.</i> <i>Grade Level: 9- 12</i>		
SPANISH 3	5415	CREDIT 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: 10, 11, 12*

HONORS SPANISH 3

55P1 CREDIT 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 teacher recommendation
Grade Level: 10, 11, 12*

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

HONORS SPANISH 4

55P2 CREDIT 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 or teacher recommendation or Honors Spanish 3 with a C" or higher. or teacher recommendation
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

54C1 CREDIT 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 or teacher recommendation
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

55C1 CREDIT 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: CHS Spanish 1 with a C- or higher or teacher recommendation
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

A.W. Beattie Career Center offers students an opportunity to prepare for their chosen career field through advanced career and college preparation during their 10, 11th and 12th grade years.

Students attending A. W. Beattie Career Center are scheduled to attend the morning session and spend the remaining half-day at North Hills High School. Three credits are awarded each year to students successfully completing career coursework. A.W. Beattie Career Center credits and grades are included in the QPA.

*All A.W. Beattie Career Center Programs offer advanced college credit upon successful completion.
Potential college credits range from three to twenty credits.*

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.

Students who attend A.W. Beattie may be eligible to earn math and/or science credits toward graduation requirements. Please see your counselor for additional information.

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.

Applications to attend A.W. Beattie Career Center should be made during the second semester of the 9th, 10th, or 11th grade and will be carefully reviewed. Further information concerning the A. W. Beattie Career Center's program is available in the school Counseling Office.

Course Offerings —

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

ADVANCED COMPUTER PROGRAMMING

AWo2 CREDIT 3.0

A.W. Beattie Career Center is proud to be one of the few schools nationwide authorized to offer Advanced Computer Programming through the Oracle Corporation. 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#, 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 computer Programming and design. Students pursuing post-secondary education will have acquired hands-on experience with the latest technologies, providing an expanded foundation for their continued educational success.

ADVERTISING DESIGN

AWo4 CREDIT 3.0

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 Premier 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.

AUTOMOTIVE COLLISION TECHNOLOGY

AWo8 CREDIT 3.0

Automotive Collision Technology prepares 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 Automotive Collision Technology 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 Automotive Collision Technology Program is certified by NATEF (National Automotive Technicians Education Foundation) ensuring that the Career Center meets strict education and industry standards.

AUTOMOTIVE TECHNOLOGY

AW10 CREDIT 3.0

The NATEF (National Automotive Technicians Education Foundation) ensures the Automotive Technology program within 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. Automotive Technology is an AYES (Automotive Youth Education Systems) training facility. AYES provides students authentic experiences during their senior year, with on-site experiences 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

AW12 CREDIT 3.0

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, scissor lift operations, and forklift training. Students will have the opportunity to earn their OSHA-10 Safety Certification and PA Builder's Certificate.

COMPUTER SYSTEMS, NETWORKENGINEERING & CYBER SECURITY

AW14 CREDIT 3.0

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.

ENGINEERING DESIGN & ADVANCED MANUFACTURING ROBOTICS

AW24 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

AW26 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

AW28 CREDIT 3.0

The Health and Nursing Sciences program will prepare students for the medical field that 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. Certification as a Patient Care Technician is available to students who successfully complete their clinical rotation and certification exam through 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

AW30 CREDIT 3.0

In HVAC students will master 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.

PHARMACY OPERATIONS (GRADE 12 ONLY)

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 SCIENCES 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

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

Online Academy @ North Hills



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.

WHAT COURSES ARE AVAILABLE?

The Online Academy @ North Hills offers numerous choices to students in grades 9-12. Online core classes in English, Social Studies, Math, Science, and a wide-range of elective courses are available for students to schedule. Please see the Online Academy Program of Studies.

HOW DO I SCHEDULE ONLINE COURSES?

You must make an appointment with Dr. Barkovich – the high school counselor for North Hills Online Academy. This appointment is critical as it enables a collaborative and personal discussion as to goals, strengths, needs, and course selection.

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. Completion of an application process and principal approval are required. Applications are available in the CRC.

Grade Level: 12

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.

Grade Level: 12

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.

Grade Level: 12

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 by Mrs. Daria White by e-mail at whited@nhsd.net.

- Once you have logged in click on the Class Registration button the left hand navigation column:

All 10th grade students must choose one English, one social studies, one math, and one science credit. You must choose one PE. You may select electives that will bring the total credit count to 7, 7.5 or 8 credits. The program of studies is on the NHSD website, it may be helpful to look this over and note the course numbers of the classes you are interested in before you choose your classes here.

[View course requests](#)

10TH GRADE ENGLISH REQUIREMENT ALL 10TH GRADE STUDENTS MUST CHOOSE ONE CREDIT OF ENGLISH	Click the edit button to request a course ⇒	
10TH GRADE SOCIAL STUDIES REQUIREMENT ALL 10TH GRADER MUST REQUEST ONE CREDIT OF WORLD HISTORY	Click the edit button to request a course ⇒	
10TH GRADE MATH REQUIREMENT ALL 10TH GRADERS MUST REQUEST ONE CREDIT OF MATH	Click the edit button to request a course ⇒	
10TH GRADE SCIENCE REQUIREMENT ALL 10TH GRADE STUDENT MUST REQUEST ONE CREDIT OF SCIENCE	Click the edit button to request a course ⇒	
HEALTH AND PHYSICAL EDUCATION TO GRADUATE FROM NORTH HILLS YOU MUST PASS PE EVERY YEAR AND PASS HEALTH ONCE. YOU MAY TAKE PE ONCE PER YEAR. BEATTIE STUDENTS MAY BE EXEMPTED FROM THE PE REQUIREMENTS DURING THE YEARS	Click the edit button to request a course ⇒	

Click on edit button to the right of each department box.

This will take you to the Course Request Menu.

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[View course requests](#)

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A new window opens-select class and click ok

Grade History

Attendance History

Email Notification

Teacher Comments

School Board

Class Registration

My Schedule

School Information

Account Preferences

All 10th grade students must choose one English, one social studies, one math, and one science credit. You must choose one PE. You may select electives that will bring the total credit count to 7, 7.5 or 8 credits. The program of studies is on the NHSD website, it may be helpful to look this over and note the course numbers of the classes you are interested in before you choose your classes here.

View course requests

10TH GRADE ENGLISH REQUIREMENT

ENGLISH 10

10TH GRADE SCIENCE REQUIREMENT

ALL 10TH GRADE STUDENT MUST REQUEST ONE CREDIT OF SCIENCE

<input checked="" type="checkbox"/>	Course Name	Number	Course Description	Credits	Prerequisite Note	Alerts
<input type="checkbox"/>	CHEMISTRY	4210		1		
<input type="checkbox"/>	CHS CHEMISTRY	42C1		1		
<input type="checkbox"/>	CONCEPTUAL CHEMISTRY	42T1		1		
<input type="checkbox"/>	HONORS CHEMISTRY	42P1		1		
<input type="checkbox"/>	HONORS CONNECTIONS	22P2		1		

<< first < prev 1 next > last >>

! You may select 1 course. You have selected 0 courses.

Cancel Okay

HEALTH AND PHYSICAL EDUCATION

Click the edit button to request a course =>

TO GRADUATE FROM NORTH HILLS YOU MUST
PASS PE EVERY YEAR AND PASS HEALTH
ONCE. YOU MAY TAKE PE ONCE PER YEAR.
BEATTIE STUDENTS MAY BE EXEMPTED FROM

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

Kevin McKiernan, Principal
Hanna Mincemoyer, Assistant Principal (Last Names A-L)
John Lesjack, 9-10 Assistant Principal (Last Names M-Z)
Patrick Weber, Director of Athletics
Karlee McBride, Assistant Director of Athletics

SCHOOL COUNSELING DEPARTMENT

412-318-1434

Mrs. Elizabeth Dove.....Counselor, 9-10 Last Names A-L
Ms. Nicole WeberCounselor, 9-10 Last Names M-Z
Dr. David Barkovich Counselor, 11-12 Last Names A-L
Mrs. Deborah Davis Counselor, 11-12 Last Names M-Z
Mrs. April Wrabley Student Assistance Counselor

Mr. Jason Greathouse Social Worker, Last Names A-K
Mr. Timothy McDowell Social Worker, Last Names L-Z

Mrs. Daria White..... Secretary/Transcripts

CURRICULUM LEADERS

Art/Fine Arts.....Jason Hillegas
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 Jamie DeWeese
Technology Education..... James Cassandro
World LanguageJoe Deible
Online Learning.....Holly Michael

CENTRAL ADMINISTRATIVE STAFF

Dr. Patrick Mannarino..... Superintendent of Schools
Dr. Beth E. Williams..... Assistant Superintendent
Dr. Nicole BezilaDirector of Pupil Services
Amy Mathieu Director of Elementary Education
David HallDirector of Finance and Operation
Gerald Muth Business Manager
David CharlesDirector of Technology
Heather Pelat Director of Communications and Development
Kevin Swindell Director of Facilities Services
Lindsay Radzvin..... Director of Food Service

BOARD OF EDUCATION

Edward M. Wielgus, President
Timothy Burnett, Thomas L. Kelly, Sandra Kozera, Allison Mathis, Annette Giovengo Nolish, Lou Nudi, Kathy Reid, Helen Spade