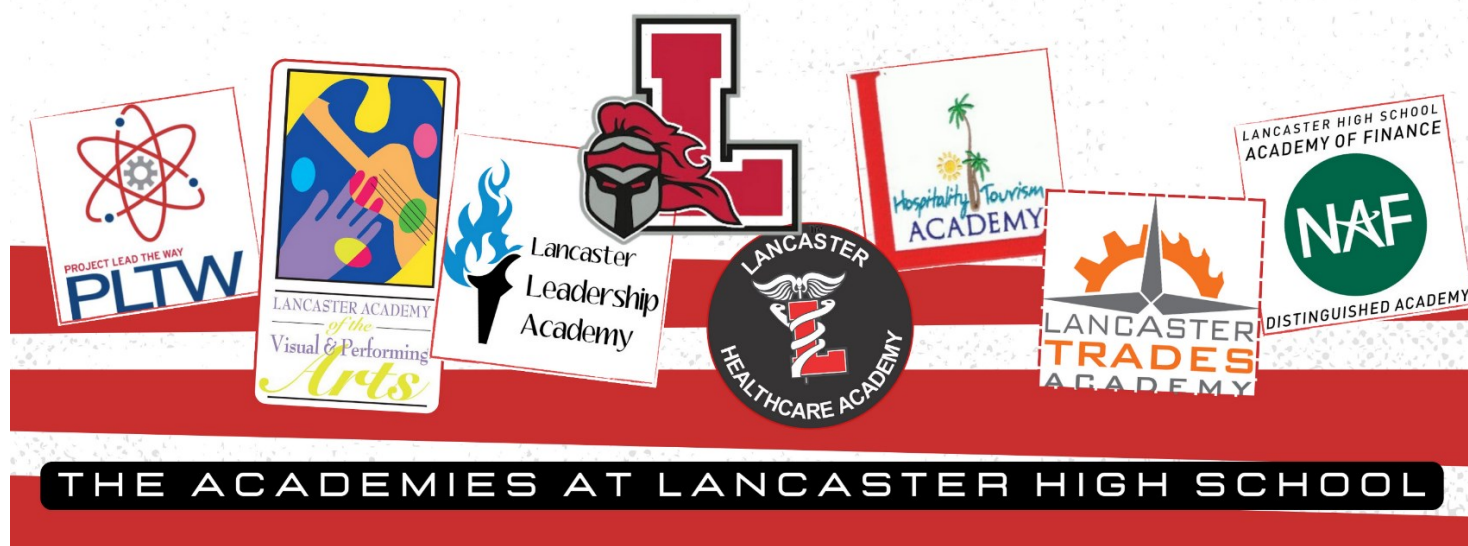


2024-2025

ACADEMY PROGRAM GUIDE



1 Forton Drive

Lancaster, NY 14086

(716) 686-3255

www.lancasterschools.org/academies

Academy Overview

Career Academies combine college preparatory and career and technical education with a career theme in a structured “small learning community” to make education more relevant to high school students through personalized and appropriate learning while preparing for careers and postsecondary education*.

Career academies produce strong and sustained increases in students’ post-high school earnings eight years after graduation.**

Academies at Lancaster High School:

- Organized small learning communities (“school within a school”) to foster positive relationships.
- College-preparatory curriculum with a career theme and core subject integration.
- Project-based with learning activities that focus on real-world problem solving.
- Career preparatory work-based learning activities focused on discovery, preparation, and practice of career skills.
- Significant and relevant partnerships to include employers, non-profit organizations, higher education & community leaders.

*Source: [United States Department of Education](#) :

**Source: [United States Department of Labor](#)

Students may apply to an academy during their freshmen year only.

Students enrolled in one of Lancaster High School’s academies gain access to the tools that will help them to identify, build and practice relevant skills for life after high school whether that is college, a career, or another pathway.



Career Themes

- ★ Academy of Finance (AOF) – Finance and Business
- ★ Academy of Hospitality and Tourism (AOHT) – Hospitality and Tourism
- ★ Academy of the Visual and Performing Arts (AVPA) – Visual and Performing Arts
- ★ Health Care Academy (HCA) – Health Care
- ★ Leadership Academy (LLA) – Leadership
- ★ Trades Academy (LTA) – Manufacturing and Skilled Trades
- ★ Project Lead the Way (PLTW) – Engineering

Academy Application

Considerations

Career Interests

1. Check with your counselor to complete a career assessment
2. Refer to lessons in your Freshmen Foundations class related to career exploration

Learn about each academy

1. Ask questions during academy presentations in Freshmen Foundations
 2. Attend Academy Information night with your parents in January
 3. Visit Academy Directors
-

Application Directions

1. Complete the online application
 2. Follow specific directions of each academy
 3. Request recommendations from teachers
-

Process for class of 2027 (January 2024)

Up to date information, details and applications available at www.lancasterschools.org/academies

- ▶ January 25, 2024
 - Academy Information Night
 - Begin the application process & obtain teacher recommendations
- ▶ February 9, 2024
 - Applications Due
- ▶ March 1, 2024
 - Announcements emailed to students



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Academy of Finance (AOF)

Students in the AOF pursue one or both of the following certifications:

NAFTrack Certification

NAFTrack Certification, designed by education and business leaders, is an employability credential that serves as NAF's seal of college and career readiness. NAF assesses student performance through the completion of career-focused courses, internship assessments, and high school graduation.



NYS Regents: Career & Technical Endorsement (CTE)

The Lancaster Academy of Finance is a NYSED accredited CTE program with pathways for students seeking Regents and Advanced Regents diplomas. Students learn "hands-on" career skills while earning a Regent's Diploma in order to prepare for college or other higher education studies.



Additionally, students may earn:

Buffalo State Dual Enrollment

The Academy of Finance has partnered with Buffalo State University and offers dual enrollment college courses through the [College Access Program](#). *Students are eligible to earn up to 24 transferable college credits.*



Microsoft Office Specialist Certification

AOF students earn Microsoft Excel certification, a credential necessary for Business and Finance careers plus others. Additionally, students can earn Microsoft Word and PowerPoint certifications.





About NAF

NAF and the Lancaster Academy of Finance (AOF)

[NAF](#) solves some of the biggest challenges facing education and the economy by bringing education, business, and community leaders together to transform the high school experience. Since 1980, NAF has grown from one NAF Academy of Finance in NYC to 604 NAF academies focusing on growing industries today. **NAF partners with some of America's top companies who seek to employ NAF certified graduates.**



[Lancaster High School's Academy of Finance \(LHSAOF\)](#) is a member of [NAF](#), the recognized national leader for career academies. Since its inception in 2008, the LHS AOF has graduated nearly 1000 students.

Our academy is structured as a small, focused learning community that fits within our high school. Our program spans three years' worth of industry validated curriculum, project-based learning and a robust work-based learning program which culminates with a paid internship. Students earn [Microsoft Certification](#) as well as the [Career and Technical Education Certification](#) on their Regents or Advanced Regents diploma from [NYSED](#). Additionally, students are eligible to graduate from the LHS AOF with 24 transferable college credits.

Student career preparation is supported by volunteers of the [Academy of Finance Business, Community & Alumni Partnership](#), a separate board that falls under the umbrella of the Lancaster Education Alumni Foundation (LEAF), a 501(c)3 organization.

Academy of Finance (AOF) Highlights

★ The LHS AOF is also referred to as NAF: Academy of Finance

Academy of Finance Application

Freshmen apply to the Academy of Finance each January. The application is open to all freshmen and detailed instructions are provided on the Lancaster High School website and at Academy Information Night.

A successful candidate demonstrates:

- Motivation to Participate
- Positive Attitude
- Potential to complete program
- Seriousness about career readiness
- Readiness for relevant & rigorous work

These attributes are illustrated through:

- Teacher or Counselor Recommendations
- Student Writing Sample
- Discipline/Attendance Record

If the number of applicants exceeds available positions, a review of the student's academic record may also be considered



Business, Community and Alumni Partnership

Advisory Boards are the essential bridge between schools and the workplace. Partnering with the Lancaster High School Academy of Finance, local businesses, community leaders, parents and alumni maximize work-based learning activities essential to college, career and future success. Typical activities guest speakers, career coaches, project judges, job shadow providers, and paid-internship providers. The Business, Community & Alumni Partnership operates under the umbrella of LEAF (Lancaster Education Alumni Foundation) as a 501(c)3 non-profit organization.

Internship Program for NAFTrack and CTE Certifications

To earn NAFTrack and/or CTE certification, and therefore graduate from the Academy of Finance, students **MUST** complete a qualified paid internship or work experience. To become qualified, all experiences must be approved by a NYSED certified internship coordinator in advance of the experience. The internship or work experience is typically completed during the junior-senior summer, but may also be completed throughout the school year. Students seek internship placements based upon their career interest and must interview for the position. Businesses then work with the school's internship coordinator to develop a training plan. Internship credit is given to students that are able to receive a favorable, formal evaluation of their employability skills by their workplace supervisor using the NAFTrack evaluation system at the conclusion of the internship.



AOF Program Graduation Requirements

★ Graduation details provided during parent/student orientation held each September.

Students must earn CTE or NAFTrack certification. (both are possible)

Required Core Classes – Academy of Finance

All students in the Academy of Finance must take these courses AND complete annual Work Based Learning requirements.

Dual Enrollment is optional.

Course	Buffalo State University Dual Enrollment Option		
✓ AOF Success Strategies	0.5 credits	Grade 10	UNC100: Mastering the Academic Envir. (3 credits)
✓ AOF Principles of Finance	0.5 credits	Grade 10	
✓ AOF Financial Services	0.5 credits	Grade 10	
✓ AOF Microsoft Office	0.5 credits	Grade 10	CIS101: Computer Fundamentals (3 credits)
✓ AOF Principles of Accounting	0.5 credits	Grade 11	
✓ AOF Internship & Ethics	0.5 credits	Grade 11	
✓ AOF Financial Planning	0.5 credits	Grade 12	FIN110: Personal Finance (3 credits)
✓ NAFTrack Paid Internship*	0.5 credits	Grade 12	

*This class is an independent study and not part of the daily schedule

Pathway Option 1: CTE (NYSED Career & Technical Endorsement)



All AOF Core classes plus

- ✓ Freshmen Foundations 0.5 credits

And any TWO

- ☐ Advanced Accounting 0.5 credits
- ☐ Business & Personal Law 0.5 credits
- ☐ Principles of Marketing 0.5 credits
- ☐ Start it Up (Entrepreneurship) 0.5 credits

- BUS212: Introduction to Accounting (3 credits)
- BUS334: Business Law I (3 credits)
- BUS320: Principles of Marketing (3 credits)
- BUS365 Entrepreneurship (3 credits)

Pathway Option 2: NAFTrack



All AOF Core classes plus any TWO

- ☐ Advanced Accounting 0.5 credits
- ☐ Business & Personal Law 0.5 credits
- ☐ Principles of Marketing 0.5 credits
- ☐ Start it Up (Entrepreneurship) 0.5 credits
- ☐ Sports & Entertainment Mktg 0.5 credits
- ☐ Business Planning 0.5 credits
- ☐ Keyboarding & Word 0.5 credits
- ☐ School Credit Union 0.5 credits

- BUS212: Introduction to Accounting (3 credits)
- BUS334: Business Law I (3 credits)
- BUS320: Principles of Marketing (3 credits)
- BUS365 Entrepreneurship (3 credits)
- BUS368: Sports Management & Marketing (3 credits)



Academy of Finance Course Descriptions

AOF: Success Strategies

9075 (Fall) Grade 10

½ credit

Success Strategies orients students to the world of work and school by addressing the need for students to develop good habits. Students explore their strengths and weaknesses as well as understanding the diversity of others, group dynamics, effective time management, setting priorities and engaging in meaningful conversations. Students become aware of career and college options and develop solid interpersonal skills as they prepare for the world beyond the classroom.

↔ **DUAL ENROLLMENT OPTION AVAILABLE**

UNC100 Mastering the Academic Environment (3 credits)



AOF: Principles of Finance

9084 (Fall) Grade 10

½ credit

This course introduces students to the financial world. Students develop financial literacy as they learn about the function of finance in society. They study income and wealth; examine financial institutions; learn how businesses raise capital; and study key investment-related terms and concepts. They also research how innovations have changed the financial services field. Finally, students explore careers that exist in finance today.

AOF: Financial Services

9076 (Spring) Grade 10

½ credit

⊗ Prerequisite: AOF: Principles of Finance

This course gives students an overview of banks and other financial services companies. It introduces students to the origins of money and banking and examines the early history of banking in the United States. Students study the financial services industry and the types of companies it includes in depth. They learn about the services offered by such companies and analyze the ways these companies earn profits. Finally, students examine careers in financial services.

AOF: Microsoft Office

9083 (Spring) Grade 10

½ credit

This course focuses on the entire Microsoft Office Suite to include Word, Excel, PowerPoint and Access. Students are introduced to the preferred productivity software for businesses and culminates with students earning Microsoft Office certification in Excel. Additional certification may be earned in PowerPoint.



↔ **DUAL ENROLLMENT OPTION AVAILABLE**

CIS101 Computer Fundamentals (3 credits)





AOF: Principles of Accounting

9077 (Fall) Grade 11

½ credit

⊗ Prerequisites: AOF: Principles of Finance, AOF: Financial Services

Principles of Accounting provides students with an understanding of the accounting process and how it facilitates decision making by providing data and information to internal and external stakeholders. Students learn that accounting is an integral part of all business activities. They learn how to apply technology to accounting by creating formulas and inputting data into spreadsheets. Students also examine career opportunities and the professional certifications and designations earned by individuals in the accounting profession.

AOF: Internship & Professional Ethics

9142 Grade 11

½ credit

⊗ Required: All previous work-based learning: Career Coaching, Mock Interview, Job Shadows

▶ **NOTE: The NAFTrack Paid Internship may be completed prior to this course**

This is the culminating work based learning course. Students consider the range of dilemmas faced in the workplace and learn about the qualities of effective leaders and the tools modern professionals use for effective communications, presentations, teamwork, networking, motivation, self-discipline and work-place etiquette. The course culminates with a business strategic plan presented to advisory board members and potential to interview for a paid internship.

NAFTrack: Paid Internship

9146 Grade 12 NOTE: This course is an independent study and not part of a student schedule

½ credit

⊗ Required: Internship coordinator approval of all employability requirements.

⊗ Required: All previous work-based learning: Career Coaching, Mock Interview, Job Shadows

★ Recommended: AOF: Internship & Professional Ethics or concurrent enrollment

▶ **Credit Issued (1) Pre-internship paperwork, (2) proof of compensation, and (3) positive NAFTrack supervisor evaluation.**

An internship is substantive for the student and productive for the employer, linked to curriculum beyond basic career exploration, directed and overseen by the employer and provides outcomes or consequences that impact beyond school. NAFTrack certification and AOF graduation requires the completion of a paid internship. Students secure an internship in one of two ways (a) Apply for an advisory board assisted internship or (b) Self-secure an internship in a career field of their choice. Internships can be completed anytime but most during the Jr-Sr summer for a duration of approximately 6-8 weeks.

AOF: Financial Planning

9072 (Full year, alternating days) Grade 12

½ credit

⊗ Required: AOF: Principles of Finance, AOF: Financial Services, AOF: Principles of Finance

↔ **DUAL ENROLLMENT OPTION AVAILABLE**

FIN110 Personal Finance (3 credits)



Financial Planning provides students with an overview of the job of a financial planner.

Students learn to consider how all aspects of financial planning might affect a potential client, and learn about the importance of financial planning in helping people reach their life goals. This course includes lessons on saving, borrowing, credit, and all types of insurance, and covers various types of investments. Students also examine careers in financial planning.



Academy of Finance Elective Choices

Consider electives based on CTE or NAFTrack certification pathways.

★ Refer to the Business Course Descriptions for additional course information

School Credit Union

9028 Grades 10, 11, 12

½ credit

⊗ Required: Student must be available for 1 class period every Thursday for the entire school year



This fully functional branch of the [Good Neighbors Credit Union](#) provides financial services to its members and delivers financial literacy lessons throughout the district. Students are taught and perform the job of teller alongside credit union staff.

Advanced Accounting

9031 Grades 11,12

½ credit

↔ DUAL ENROLLMENT OPTION AVAILABLE

Business and Personal Law

9035 Grades 10,11,12

½ credit

↔ DUAL ENROLLMENT OPTION AVAILABLE

Keyboarding & Microsoft Word

9012 Grades 9,10,11,12

½ credit

Entrepreneurship

9038 (Fall) Grades 10,11,12

½ credit

↔ DUAL ENROLLMENT OPTION AVAILABLE

Business Planning

9041 (Spring) Grades 10,11,12

½ credit

Principles of Marketing

9037 (Fall) Grades 10,11,12

½ credit

↔ DUAL ENROLLMENT OPTION AVAILABLE

Sports and Entertainment Marketing

9040 (Spring) Grades 10,11,12

½ credit

↔ DUAL ENROLLMENT OPTION AVAILABLE



Academy of Hospitality and Tourism (AOHT)

Overview

The Academy of Hospitality and Tourism (AOHT) concentrates on equipping students for the hospitality industry. An articulation agreement with SUNY Buffalo State University affords students the experience of completing college level courses while still in high school and opportunities working with nearby industry professionals.

Students' core subjects are enhanced with a concentration in hospitality to include hotel administration, restaurant management, culinary arts, event planning, travel, and tourism. The excitement and diversity in the hospitality and tourism industry makes it an attractive field for students who are fascinated by other cultures and economies.

The AOHT provides engaging courses and real-life work experiences that inspire students about their future whether it is in this industry or other professions. Completion of the AOHT program of study helps prepare students for post-secondary education not only in hospitality and tourism related majors but also for any concentrated program requiring a strong foundation in social studies, business, and language arts.

Structure of AOHT

The Academy of Hospitality and Tourism is structured as a "Small Learning Community" focused on careers in the hospitality, tourism, and restaurant industry. The three-year curriculum begins in the sophomore year by enhancing a student's core subjects with a concentration in hospitality to include hotel administration, restaurant management, culinary arts, event planning and tourism.

Regents and Advanced Regents Diploma:

Career and Technical Education Endorsement (CTE)

The Lancaster Academy of Hospitality and Tourism is an accredited CTE program with pathways for students seeking Regents and Advanced Regents diplomas. Students learn "hands-on" career skills while earning a Regent's or Advanced Regent's Diploma in order to prepare for college or other higher education studies. Students apply academic concepts to real-world situations with:

- Internships
- Mentorships
- Job shadowing
- Industry-based certifications
- Opportunity to earn college credit
- Other work based learning opportunities





Major Benefits of the Academy of Hospitality and Tourism

Benefits Overview

- ★ College Level Courses in partnership with SUNY Buffalo State University
- ★ Industry internship (Second semester Junior or first semester Senior)
- ★ Potential for ServSafe certification (necessary for the restaurant industry)
- ★ Leadership and Event planning opportunities
- ★ Familiarization tours of tourist destinations
- ★ Foreign Language and Cultural opportunities



SUNY Buffalo State University College Access Program (CAP)

The Family and Consumer Science Department has partnered with the SUNY Buffalo State CAP program and offers college level courses taken at LHS as part of the normal school day, enabling students to earn college credit. Students earning a grade of "C" or better are eligible to transfer these SUNY approved courses.



BUFFALO STATE
The State University of New York

Student Practical Experience and Familiarization Tours

Student Practical Experience

The student practical experience is organized as an independent study that will foster career success so that students are able to address current local, regional, national and international issues within the hospitality and tourism industry and as a method to encourage lifelong learning, civic responsibility, and leadership. Each course within the Academy curriculum includes a dedicated project and one course per school year will address the fundamentals necessary for the practical experience.

Familiarization tours

Familiarization tours (aka FAM tours) are used to help students identify with a variety of potential career choices within the hospitality industry and to become familiar with a city, region, state or popular tourist destination. FAM tours are an excellent way to discover the geographic and cultural differences that attract tourists



Academy of Hospitality and Tourism Course Descriptions

AOHT: Principles of Marketing

9037 (Fall) Grade 10

½ credit

↔ **DUAL ENROLLMENT OPTION AVAILABLE**

BUS320: Principles of Marketing (3 credits)



Marketing provides a bridge between business and consumers. This course will open the student's eyes to the world of marketing that is all around and to become educated decision makers. Content revolves around the basic marketing functions, selling, public service announcements, promotion, market research, social media, customer service and buying behavior. Marketing is a course for anyone to take who is and will continue to be a consumer.

★ Students completing AOHT Principles of Marketing have the potential to earn college credit from SUNY Buffalo State University through their CAP program while still enrolled in high school. Credits are transferable to any SUNY University. Transcripts are issued by SUNY Buffalo State University after completing all enrollment and academic requirements.

AOHT: Marketing with Sports and Entertainment

9040 (Spring) Grade 10

½ credit

↔ **DUAL ENROLLMENT OPTION AVAILABLE**

BUS368: Sports Management and Marketing (3 credits)



This course is designed to study marketing principles as it relates to the sports and entertainment industry. Instructional areas will include marketing, advertising, promotion, internet/social media marketing, sponsorship and endorsements, event marketing, and branding an image. A basic understanding of the principles of marketing is helpful to enroll in this course, but not a requirement. Classroom instruction will be reinforced using group/individual projects, guest speakers, possible field trip experiences, current periodicals, computer work, and lecture/discussions.

★ Students completing AOHT Marketing with Sports and Entertainment have the potential to earn college credit from SUNY Buffalo State University through their CAP program while still enrolled in high school. Credits are transferable to any SUNY University. Transcripts are issued by SUNY Buffalo State University after completing all enrollment and academic requirements.

AOHT: Success Strategies

9923 (Fall) Grade 10

½ credit

This one semester course helps orient students to the world of work and school and is the first course offered in the Hospitality Academy. Success Strategies addresses the need for students to develop good work and study habits, helps students to understand their strengths and weaknesses, effectively manage time, set priorities, and establish the foundation habits of successful people. Students prepare portfolios, learn about school resources, develop career plans, start planning for college and develop solid interpersonal skills as they prepare for the world beyond the classroom.



AOHT: Introduction to the Food and Beverage Industry

9913 (Spring) Grade 10

½ credit

Adapted and more in-depth version of Food and Nutrition designed especially for students interested in a career in the hospitality industry. Throughout this course, students will:

- Learn/practice kitchen safety procedures and food preparation skills including how to read/follow a recipe using proper measuring techniques
- Be able to identify and safely use various kitchen tools and equipment
- Understand and practice safe food handling procedures
- Learn essential kitchen and restaurant management skills including culinary professionalism, meal management, food purchasing and meal service techniques.
- Explore a variety of careers related to food, nutrition, and the hospitality industry

AOHT Introduction to the Hospitality Industry

9915 (Fall) Grade 11

½ credit

This course takes a management perspective in introducing students to the organization and structure of hotels, restaurants, food service operations, clubs, cruise ships, convention bureaus, conference centers and casino hotels. Other topics include: business ethics, franchising, management contracts, and areas of management responsibility such as human resources, marketing and sales, and advertising.

★ Students completing Introduction to the Hospitality Industry have the potential to earn college credit from SUNY Buffalo State University through their CAP program while still enrolled in high school. Credits are transferable to any SUNY College or University. Transcripts are issued by SUNY Buffalo State University after completing all enrollment and academic requirements.

AOHT Hotel & Hospitality Information Systems

9916 (Fall) Grade 11

½ credit

↔ **DUAL ENROLLMENT OPTION AVAILABLE**

HTR368: Hotel Operations (3 credits)



Provides an overview of the information needs of lodging properties and food service establishments; addresses essential aspects of computer systems, such as hardware, software, and generic applications; focuses on computer-based property management systems for both front office and back office functions; examines features of computerized restaurant management systems; describes hotel sales computer applications, revenue management strategies, and accounting applications; addresses the selection and implementation of computer systems; focuses on managing information systems and examines the impact of Internet and private intranets on the hospitality industry.

★ Students completing Hotel & Hospitality Information Systems have the potential to earn college credit from SUNY Buffalo State University through their CAP program while still enrolled in high school. Credits are transferable to any SUNY College or University. Transcripts are issued by SUNY Buffalo State University after completing all enrollment and academic requirements.



AOHT: Geography and World Cultures**9914 (Spring) Grade 11****½ credit**

This one semester course introduces students to the impact that geography, culture, and cuisine have in the hospitality and tourism industry. From high level business negotiations to casual conversations among friends, every interpersonal interaction is shaped by cultural norms and expectations. This thought-provoking class will present a framework for understanding the impact of culture, geography and resources available on food preparation, food supply, communication, travel and tourism. This course will also help students build inter-cultural awareness by allowing students to engage in research related to a multitude of world cultures and create “culture kits” to demonstrate an understanding of customs, traditions, and lifestyle.

AOHT: CEIP (Career Exploration Internship Program)**9051 (Spring) Grade 11****½ credit****↔ DUAL ENROLLMENT OPTION AVAILABLE****UNC100 Mastering the Academic Environment (3 credits)**

The AOHT-CEIP (Career Exploration Internship Program) is designed to give students hands-on experience in a hospitality related career. Students are placed in an unpaid training internship with an employer from a local company for a practical on-the-job experience. This course is in preparation of the student’s paid internship experience as it includes classroom learning on important workplace topics, such as resume preparation, effective interviewing techniques, teamwork, projecting a professional image, job motivation and employee benefits. Academy students must meet eligibility requirements to take this course. This program is registered with the New York State Education Department.

★ Students completing AOHT CEIP have the potential to earn college credit from SUNY Buffalo State University through their CAP program, while still enrolled in high school. Credits are transferable to any SUNY College or University. Transcripts are issued by SUNY Buffalo State University after completing all enrollment and academic requirements.

AOHT: Business Planning**9041 (Spring) Grade 12****½ credit**

If you like Entrepreneurship, this is the course for you! This course will go more in-depth and students will create and present a detailed business plan. We will work with Junior Achievement of WNY, and student will be eligible to compete in a business plan competition for scholarships and other prizes. Other topics will include identifying and meeting a market need, marketing your business, distribution, promotion, selling and operations management.



AOHT: Advanced Food and Beverage

9920 (Fall) Grade 12

½ credit

↔ **DUAL ENROLLMENT OPTION AVAILABLE**

HTR200: Sanitation and Safety in Food Service (3 credits)



Students will build upon the prior information and activities from their previous cooking classes. Food labs will include preparation of meat and poultry, soups, salads, pastries, candies and seasonal specialties. Additional topics include the role of science in the world of food, meal management and food purchasing, careers in the food industry, advanced culinary and gourmet food techniques.

★ Students completing AOHT Advanced Food and Beverage have the potential to earn college credit from SUNY Buffalo State University through their CAP program while still enrolled in high school. Credits are transferable to any SUNY College or University. Transcripts are issued by SUNY Buffalo State University after completing all enrollment and academic requirements.

AOHT: Event Management and Planning

9918 (Spring) Grade 12

½ credit

↔ **DUAL ENROLLMENT OPTION AVAILABLE**

HTR375: Events Management (3 credits)



This course will give you a look into the almost invisible but greatly important career of event planning. This course will explore the various aspects of event planning as well as the characteristics and skills necessary to be a successful event planner. Topics include: Defining event planning and its characteristics, exploring why clients use event planners, types of events, your job as an event planner, financial aspects, contracts, and insurance issues, and the importance of networking. Students will assist with planning and managing an event relevant to the course topics.

★ Students completing Event Management and Planning have the potential to earn college credit from SUNY Buffalo State University through their CAP program while still enrolled in high school. Credits are transferable to any SUNY College or University. Transcripts are issued by SUNY Buffalo State University after completing all enrollment and academic requirements.

AOHT: CFM Financial Literacy

9911 Grade 12

½ credit

Students will acquire the lifelong skills necessary to manage their personal and professional lives. Students are given the opportunity to explore careers based upon their interests and aptitudes. An emphasis will be placed on providing students with the opportunity to learn about the features of our economy, explore a variety of careers, learn the skills and competencies needed for success in the workplace and to begin to become financially literate. Students will realize the significance of their part in the economic system. Important management and economic concepts are defined in relation to business transactions and to the individual as an entrepreneur, employee, consumer, and citizen.



AOHT: Student Practical / COOP

9922 Grade 12

½ credit

- The Cooperative Career & Technical Education Work Experience Program is a work-based learning program for students age 16 and above, consisting of 150 of paid, school-supervised work experience, supported by related in-school instruction in a specific career & technical discipline. Students may earn ½ unit of credit towards a CTE sequence. This program is registered with the New York State Education Department.



Academy of the Visual and Performing Arts (AVPA)

Overview

The Lancaster Academy of the Visual and Performing Arts is a unique organization designed for students with a strong interest in the visual or performing arts. Our mission is to provide students with a solid foundation in the arts through a sequence of academic courses, career exploration opportunities, and inspiring interactions with fellow students, faculty, and professional artists.

The Arts Academy curriculum was designed by the LHS art and music teachers and implemented in the Fall of 2008. With no national model to follow, we created coursework and planned extra-curricular activities that would help our students prepare for careers in the visual or performing arts. Since that time, our program has become a model for other districts wishing to implement an academy for the arts. The LHS Arts Academy is so unique that Gary Stith, a well-known music educator and author, included an article about our program in his 2017 publication of *The Conductor's Companion: 100 Rehearsal Techniques, Imaginative Ideas, Quotes, and Facts*.



No matter what career path they ultimately choose, there are numerous benefits for students who participate in the Arts Academy. During the three year program, students increase their knowledge and understanding of the arts and improve their artistic and/or musical abilities. They gain a strong work ethic and leadership skills, learn how to communicate ideas and plan for long-term projects, and develop self-confidence as they collaborate with teachers, peers, alumni, and professional artists.

Throughout the courses in the Arts Academy curriculum, students perform for their peers, critique each other's artwork, and work together to prepare projects and presentations about topics related to the visual and performing arts. All Arts Academy students take college-level courses in Music Theory or Drawing, 2D Design and 3D Design. In addition to the course curriculum, students interact with guest artists and musicians, job shadow at area businesses, prepare for college applications and auditions, and complete internships. Outside of the classroom, students perform in a recital or participate in an art exhibition during their sophomore, junior, and senior years. The visual arts students operate a professional art gallery in our school, and many music students volunteer to perform at a variety of school and community events. All students serve on various committees to plan, organize, and facilitate the Festival of the Arts each year. Students visit art galleries and attend numerous professional performances as well.



Visual Arts - Highlights

Benefits to participation:

- Unique career exploration and internship placement opportunities based on availability in diverse art fields including:
 - Art Service...Art Education, Art Therapy
 - Fine Arts...Gallery docent, Exhibiting artists.
 - Craft Arts...Jeweler, Clay artist, Woodworkers
 - Graphics...Web designer, Publication/print design
 - Illustration...Fashion, Costume, Theatre design, Advertising
 - Digital/Film...Photography, TV station, Editing
- College Credit Courses: Visual Arts Academy students can earn AP credit by taking either AP Drawing, AP 2D Design or AP 3D Design.
- Involvement with the running of our LHS Arts Academy Art Gallery and Senior Exhibition.

★ 8th grade students interested in applying for the Visual Arts Academy must be enrolled in Studio in Art as a freshman.

Performing Arts - Highlights

Benefits to participation:

- A solid foundation for many real-world settings including college and performance venues.
- Advanced (college-level) music courses with both written and aural components
- Collaboration with peers, teachers, alumni, and professional musicians

Job Shadowing and internship placements in highly specific performing arts fields including:

- Music Education (Instrumental, Choral, General)
- Music Business
- Musical Theatre
- Music Therapy
- Drama/Dance
- Radio
- Television
- Technical Theatre

★ Students applying for acceptance into the Performing Arts track of the Arts Academy need to have some prior experience in performing ensemble(s).



Visual Arts – Course Descriptions

⊗ Students required to have completed Studio in Art in Grade 9

AVPA: Visual Arts Seminar

6125 Grade 10

1 credit

⊗ Prerequisite: Studio in Art and Enrollment in AVPA

This full year introductory course is designed to orient students to the Academy of Visual and Performing Arts. During the year, students will develop their creative problem solving and critical thinking abilities by exploring the creative process through production of a body of their own individual, unique work of art. A strong art history component is integrated into the course, giving students the opportunity to examine great works of art in a variety of different cultures. There is a focus on visual arts career exploration, allowing students to explore and learn about the vast array of career opportunities available to them in the field of Art and Design. Students develop strong leadership and communication skills by working together to complete shared tasks. They will also get involved in the world of art and experience it firsthand through meeting with visiting artists, participating in career-driven field trips, exhibiting their own work to the public, and attending art shows and musical performances.

AVPA: Drawing and Painting

6132 Grade 10

1 credit

⊗ Prerequisite: Studio in Art or DDP in Art

This in-depth course continues where Studio in Art left off, concentrating primarily on drawing and painting. Exploration of media and techniques is emphasized. Students are encouraged to find personal answers to art problems using skills and techniques acquired in the course. The course is designed to foster a deeper understanding of art practices. Art criticism and art assessment help the student learn to appreciate their own and others' achievements.

AVPA: Portfolio Development

6120 Grade 11

1 credit

⊗ Prerequisite: Drawing and Painting

This course ties together the student's previous art education experiences. It is designed for the highly motivated student who is serious about the study of art. It allows students to further explore areas of interest and to critically look at their own work and the works of others. Students develop a journal/sketchbook that becomes a personal resource for new work. Preparation and presentation are ongoing as students assess works to be included in a final portfolio.



Academy: Internship

9050 (Fall, Summer) Grade 11,12

½ credit

- ⊗ Prerequisite: Enrollment in AVPA, LLA or HCA.
- ⊗ Required: Own transportation to/from mentor's job site

The CEIP program is designed to give students hands-on experience in the career field of their choice. It also includes classroom learning on important workplace topics, such as resume preparation and effective interviewing techniques, teamwork, projecting a professional image, and job motivation and benefits. Students are placed with a local company in their desired field to complete the required internship hours.

AVPA: Gallery Internship

6127 Grade 11 or 6126 Grade 12

½ credit

- ⊗ Prerequisite: Enrollment in AVPA

This course fulfills the internship requirement for the Arts Academy. Student will be in charge of running our Academy Gallery at LHS. Students will be involved in all aspects of putting on an exhibition, including selecting themes, collecting/preparing artwork and signage, designing the layout of the gallery, painting walls, setting lighting, advertising and publicizing the exhibit, planning interactive activities, hosting opening receptions, and more. The Gallery will hold exhibits by both student and professional artists. Internship hours will be fulfilled during the school day as well as after school and certain evenings.

AVPA: AP Drawing, 2D Design and 3D Design

6240 Grade 12

1 credit

- ⊗ Prerequisite: Portfolio Development

AP Drawing, AP 2-D Design, and AP 3-D Design are actually 3 different courses, but they all take place during one class period. Students will choose which AP course they want to be enrolled in after the 1st week of school in September. This course is for students who wish to pursue their own independent project in a series of visually related artworks (Sustained Investigations). Students are strongly encouraged to submit these works to the College Board in May for possible college credit. Please note, even though some colleges still require students to take the college's Foundation Art courses, most colleges will allow students (both art majors, and non-art majors) to use an AP Art credit as a humanities elective.





Visual Arts Elective Choices

In addition to the AVPA required courses, students must take at least ONE of the following courses.

★ Refer to the Art Course Descriptions for additional course information

Ceramics I and Ceramics II

6113 and 6223 Grades 10, 11, 12

½ credit + ½ credit

Studio in Graphic Design

6111 Grades 10,11,12

1 credit

Photography I and II

6118 and 6124 Grades 10,11,12

½ credit + ½ credit

Illustration & Cartooning

6109 Grades 10,11,12

1 credit

Jewelry I and II

6122 and 6123 Grades 10,11,12

½ credit + ½ credit

Visual Arts Extracurricular Activities

In addition to the AVPA required courses, students are encouraged to maintain membership in one or more extracurricular activities:

- Art Club
- Art Honor Society
- Design Club
- Yearbook



Performing Arts – Curriculum Requirements

In addition to the classes listed below, students are encouraged to take other elective classes, and schedule permitting, perform in a second ensemble. *Successful completion of a performing ensemble includes learning all music, displaying a good attitude and work ethic, and attending lessons and performances.

Grade 9

1. Enrollment in and successful completion* of a full-year Performing Ensemble:
 - Concert Band
 - Symphonic Band
 - Symphony Orchestra
 - Wind Symphony
 - String Orchestra
 - Mixed Chorus
2. Application to the Academy in January

Grade 10

1. Enrollment in and successful completion* of a full-year Performing Ensemble:
 - Concert Band
 - Symphonic Band
 - Symphony Orchestra
 - Concert Choir
 - Wind Symphony
 - String Orchestra
 - Mixed Chorus
2. AVPA: Music Theory I

Grade 11

1. Enrollment in and successful completion* of a full-year Performing Ensemble:
 - Concert Band
 - Symphonic Band
 - Symphony Orchestra
 - Concert Choir
 - Wind Symphony
 - String Orchestra
 - Mixed Chorus
2. AVPA: AP Music Theory
3. Optional: The Internship may be completed during a student's junior or senior year.

Grade 12

1. Enrollment in and successful completion* of a full-year Performing Ensemble:
 - Concert Band
 - Symphonic Band
 - Symphony Orchestra
 - Concert Choir
 - Wind Symphony
 - String Orchestra
 - Mixed Chorus
2. AVPA: Leadership in Music
3. Internship: CEIP or Gallery Internship or Education Intern for Intro to Music or other music courses



Performing Arts – Course Descriptions

AVPA: Music Theory I

6540 Grade 10

1 credit

★ Recommended: Band, Orchestra or Choir Experience

This course helps students develop an understanding of the elements of music while putting those elements to practical use. Students will learn more about reading, writing, and analyzing music utilizing written and aural examples from all time periods of music. Basic piano skills, an overview of music history, and the incorporation of music technology will enhance each student's learning experience.

AVPA: AP Music Theory

6528 Grade 11

1 credit

⊗ Prerequisite: Music Theory I

↔ **DUAL ENROLLMENT OPTION AVAILABLE**

MUS210 Music Theory for Non-Majors (3 credits)



AP Music Theory is an expansion and continuation of topics covered in Music Theory I. This college level course includes instruction in musical terminology as well as notational, compositional, musical analysis, and aural skills. Students may earn college credit by taking the AP Music Theory Exam, or they may choose a dual enrollment option to earn credit for MUS210-Music Theory for Non-Majors (3 credits) at SUNY Buffalo State University. Any student planning to take a music course in college should definitely enroll in AP Music Theory!

AVPA: Leadership in Music

6550 Grade 12

1 credit

⊗ Prerequisite: Enrollment in AVPA, approval from AVPA director

This course is the final class for AVPA performing arts students. During the first quarter, students will explore career options and prepare for college by researching various schools, degree programs, and course sequences. Students will create resumes, gather application materials, and prepare for auditions and interviews. They will learn about the Common App and FAFSA and complete a financial literacy unit. During the second and third quarters, students will propose and develop a recital project. Students will learn about music through history, research standard and modern repertoire for their instrument/voice, and complete a project and presentation about a piece of their choosing. Students will have several opportunities to perform for the music faculty and their classmates, and the project will culminate with the AVPA Senior Recital performance. During the 4th quarter, students will propose topics/projects for the remainder of the course. The final weeks of the class will be reserved for pursuing community service projects and topics based on students' needs and interests.



Academy: Internship

9050 (Fall, Summer) Grade 11,12

½ credit

⊗ Prerequisite: Enrollment in AVPA, LLA or HCA.

⊗ Required: Own transportation to/from mentor's job site

The CEIP program is designed to give students hands-on experience in the career field of their choice. It also includes classroom learning on important workplace topics, such as resume preparation and effective interviewing techniques, teamwork, projecting a professional image, and job motivation and benefits. Students are placed with a local company in their desired field to complete the required internship hours.

Performing Arts Extracurricular Activities

In addition to the AVPA required courses, students are strongly encouraged to maintain membership in one or more extracurricular activities:

- Brass Choir
- Carnival Kids Steel Orchestra
- Handbell Choir
- Jazz Combo
- Jazz Ensemble
- Marching Band
- Musical
- Performing Arts Society
- Pit Orchestra
- Show Choir
- Stage Crew
- String Quartets
- Swing Choir
- Swingin' Strings
- Tenor Bass Choir
- Winter Guard
- Woodwind Choir



Healthcare Academy- (HCA)

The Lancaster Healthcare Academy is designed for students who are interested in exploring health-related careers. During the three year curriculum, classes will visit healthcare facilities, host various health professionals, and discuss current trends in healthcare. It is the perfect opportunity to get a head start in the competitive and rewarding healthcare field.

Students in the academy complete a series of 3 courses - Introduction to Health Careers, Anatomy & Physiology I and Anatomy & Physiology II with lab.

In addition to course work, students are required to attend monthly academy meetings and complete 20 service hours. These service hours can be completed at healthcare facilities, volunteering for healthcare related events (such as Relay for Life or a benefit event), or for helping with academy activities. Students may also complete internships in healthcare fields.

Many of the HCA Alumni are currently enrolled in pre-medical programs and other healthcare majors such as Occupational Therapy, Physician Assistant, PT and nursing. Most students are accepted to their first choice school and program.

Healthcare Academy Course Descriptions

HCA: Introduction to Health Careers

4574 Grade 10

1 credit

- ⊗ Prerequisite: Regents exam credit for Living Environment
- ⊗ Prerequisite: Acceptance to Healthcare Academy

This course is designed to be the entry course for the Healthcare Academy. Students wishing to be enrolled in the Academy must take this course. The course will explore the opportunities that are available in the healthcare Field. Careers which work to support the doctor, the patient and the healthcare facility will be discussed. Practicing healthcare professionals will discuss their fields and share their experiences with the class. The course will meet for one period every day. The final assessment for this course is written by the instructor.

HCA: Anatomy and Physiology I

4110 Grade 11

1 credit – Life Science

- ⊗ Prerequisite: Regents credit for Living Environment
- ⊗ Prerequisite: Course credit for HCA Introduction to Health Careers
- ⊗ Prerequisite: Acceptance to Healthcare Academy

This course will introduce students to the basic principles related to the structure and function of the human body. Anatomical terminology, cell structure, basic biochemistry, histology and all levels of structural organization of the integumentary and skeletal systems will be emphasized. Common pathology of each system will also be discussed. Medical terminology and ethical issues relating to each studied system will be covered within each unit of study. This course meets for a single class period each day. Final assessment is created by the instructor. Life Science credit.



HCA: Anatomy and Physiology II

4111 Grade 12

1 credit – Life Science

- ⊗ Prerequisite: Regents credit for Living Environment
- ⊗ Prerequisite: Regents credit for Chemistry
- ⊗ Prerequisite: Course credit for HCA Introduction to Health Careers
- ⊗ Prerequisite: Course credit for HCA Anatomy and Physiology I
- ⊗ Prerequisite: Acceptance to Healthcare Academy

This course is a continuation of HCA Anatomy and Physiology I. All levels of structural organization of the Nervous, Endocrine, Cardiovascular, Digestive, and Urinary systems will be emphasized. Common pathology of each system will also be discussed. Medical terminology and ethical issues relating to each studied system will be covered within each unit of study. This course has five class periods and two double lab periods every six days. The final assessment for this course includes material covered in both HCA Anatomy and Physiology I & II and is created by the instructor.



Leadership Academy (LLA)

A Unique Leadership Learning Experience

The Lancaster Leadership Academy is an exciting Academy at Lancaster High School designed to provide students with coursework and other educational experiences that will enhance their leadership skills. These experiences will enable them to become highly successful in college, in their chosen career and in future community involvement.

The focus of the Leadership Academy will be to develop individual student leaders in the areas of responsible citizenship, communication, goal setting, group processes, as well as business, organizational and managerial skills. Students in this Academy will be required to take an active role both in the high school and the greater Lancaster community.

Lancaster Leadership Academy Mission

The purpose of the Lancaster High School Leadership Academy is to provide a structured learning environment that will allow (help develop) student leaders to (who will) make a positive impact on our school's climate and our community as well as to enhance those skills necessary for them (our students) to become active, productive citizens.

Leadership Academy students must complete a 4.5 credit sequence over the course of their sophomore, junior and senior years with a cohort group of students in their grade. Candidates for this Academy should be positive, highly self-motivated individuals who are willing to take risks and who are willing to put in the time necessary to make a positive difference for others.

Complimentary Courses

To complete the Leadership Academy credit sequence, Academy students must choose an additional 1 credit from a selection of complementary coursework in other departments. Acceptable courses are listed within the course descriptions section (below) but students may request optional courses on a case by case basis. These courses have been chosen because they augment the work done in the core Academy courses. One additional credit is utilized as to not overwhelm the student's choice of elective courses throughout their high school experience.

"Why be part of leadership?"

As a member of the Leadership Academy you will develop skills for success in college, career and life:

- Communication
- Time management
- Problem solving
- Teamwork
- Commitment
- Organization
- Self-discipline
- Responsibility
- Risk-taking
- Stress management
- Goal setting
- Conflict resolution
- Meeting management
- Professional writing skills
- Presentation skills
- Public speaking
- Community service

Leadership Academy Internship Program

Experience an Internship Program where you will interact with adult leaders in the community that will lead to valuable on-site leadership experiences and future networking opportunities.

NASC Distinguished Leader Program

Students in the Leadership Academy complete the NASC Distinguished Leaders Program throughout their Sophomore and Junior years through their Academy Classes. The topics are broken up as outlined below and augment the curriculum for each class. At the conclusion of their junior year the students meet with the Academy Directors and present their application. Over the past 10 years over 200 students in the Leadership Academy have earned the designation as a NASC Distinguished Leader. This program is structured so that the students will receive the designation of “National Distinguished Student Leader”, a designation that less than 1% of graduating seniors have nationally, in time to place it on their college and scholarship applications.



Leadership Academy Course Descriptions

LA: Effective Communication for Leadership

1325 Grade 10

1 credit

This one-credit, introductory course will challenge students to develop speaking, listening, and writing skills to become successful leaders. Students will expand upon their prior character education experiences by examining and adopting the qualities and characteristics of successful leaders. Students will develop and exhibit time management, organizational and managerial skills, personal growth, strategies for professional interaction with others, as well as goal-setting techniques.

Classroom experiences will include but not be limited to class and school-wide projects and events, journal writing, speeches, interview skills, electronic, phone, and interpersonal communication, goal setting, time management, organization, stress management, and team building. Students will make periodic contributions to their Leadership Portfolios in preparation for the National Distinguished Student Leader Program.

Additionally, students will complete the following service hours opportunities.

- ☐ 1st & 2nd quarters
 - Complete 5 school service hours each quarter
- ☐ 3rd & 4th quarters
 - Complete 5 school & 5 community service hours each quarter

LA: Processes of Leadership

30 Grade 11

1 credit

In this one-credit course, students will develop and expand effective group process techniques and business and marketing skills. The class will explore topics such as motivating others, goal setting, group process, problem solving, conflict resolution, marketing strategies, meeting structures, etc. Classroom experiences will include but not be limited to journal writing, oral presentations, group projects, school-wide events, and written tasks.

Additionally, students will complete the following service hours opportunities.

1st & 2nd quarters

- ☐ Complete 10 school service hrs each quarter
- ☐ Complete 5 community service hrs each quarter

3rd & 4th quarters

- ☐ Complete 10 school service hrs each quarter
- ☐ Complete 10 community service hrs each quarter

This course will introduce students to the project-planning model with steps such as goal setting, proposals, objective charts, and evaluations. Student work is a mixture of traditional assignments and hands-on projects, group project planning and implementation (including running various school events), as well as involvement in the planning of the annual Leadership Academy Trip. Students also have an opportunity to attend various local and national leadership conferences throughout the year. Active school involvement and service-learning hours are required.

Leadership in Action

1416 Grade 12

1 credit

This one-credit course is project-based, with students utilizing a project-planning model to make a positive difference in the school and community. Students will exhibit responsibility, perseverance, respect and integrity while working as teams to set goals, design timelines, write proposals, create publicity, evaluate outcomes and write final reports.

Leadership in Action students work in teams and complete one major project per quarter. Examples of past projects include:

- Lancaster-Depew Week and Spirit Week activities such as the Bonfire, Motorcade, Spirit Assemblies, Powder Puff Game, Homecoming Dance, Spirit Bowl, Mr. Lancaster, Building Decorations, etc.
- Social activities such as the Courtyard Dance, Freshman Mixer, Spring Courtyard Dance, Prom, Homecoming, etc.
- Holiday projects such as Jingle Links, Cookie Marathon, Coloring Contest, Holiday Food Drive, Santa Grams, Christmas Tree Contest, Building Decorations, etc.
- Senior Class projects such as Red Cross Blood Drives, Senior Mural, Senior Dinner Dance, Senior Apparel Sale, Senior Day, Senior Recognition Program, etc.
- Community service projects such as Group Home Socials, Food Drives, US Troop Support Program, Project Clean Your Locker, Lancaster Youth Bureau Holiday Distribution, etc.
- School service projects such as Freshman Orientation, 8th Grade Information Night, Recycling, and Appreciation Luncheons for various LCSD employee groups, Class Mural Revitalization, SOAR, etc.

Students complete assignments outside of class time as a component of their quarterly grade. Each quarter, students must:

- ☐ Complete 15 school service hours
- ☐ Complete 10 community service hours

Over the years the Leadership in Action class has become a very active and high-profile class that demands much time and effort as well as constant commitment. This course will be rewarding for those who enjoy a mental, emotional, and physical challenge. It may be too stressful for those students who would like to enjoy a relaxing senior year; however the rigor is an excellent way to prepare students for college and life beyond high school.

Academy: Internship

9050 Grade 11 (Spring), Grade 11/12 (Summer) or Grade 12 (Fall)

½ credit

⊗ Prerequisite: Enrollment in AVPA, LLA or HCA.

⊗ Required: Own transportation to/from mentor's job site

► Note 1: Not all internship locations are located in Lancaster, NY

► Note 2: Students must understand the time commitment and therefore schedules must be considered prior to registering

The CEIP program is designed to give students hands-on experience in the career field of their choice. It also includes classroom learning on important workplace topics, such as resume preparation and effective interviewing techniques, teamwork, projecting a professional image, and job motivation and benefits. Students are placed with a local company in their desired field to complete the required internship hours.

Foundations Teachers' Assistant

1002 Grades 11,12 (full year – every day, same class period)

½ credit

The Foundations for Success Program has been designed to help underclassmen adjust to life in the High School and equip each student with skills and knowledge to be successful throughout their high school career and beyond.

Each Foundations classroom (25-28 students) has a teacher who serves as the guide as the students grow together through different lessons, exercises, and experiences. A major factor in the effectiveness of this "different" type of class is a Student Mentor or Teacher's Assistant (TA). Each classroom (you will be assigned to the same class period, every day, for the entire school year) will have one or two upperclassmen TA(s) who will assist the teacher in planning and implementing many of the classroom exercises and lessons.

The Role of a Foundations Teachers' Assistant

The intention is to have Upperclassmen mentors to serve as Role Models for the underclassmen students participating in the class and as "Teaching Assistants" for the classroom Teacher. Your responsibilities will include attending your Foundations Class, assisting the teacher in designing and the implementing classroom activities and lessons, and various tasks all with the goal of helping the students in your class grow and become more comfortable at LHS. At the conclusion of the school year you will earn 1/2 credit for serving in this capacity.

Leadership Academy Complimentary Choices

To complete the Leadership Academy credit sequence, Academy students must choose an additional 1 credit from a selection of complementary coursework in other departments. Acceptable courses are listed below but students may request optional courses on a case-by-case basis.

★ Refer to the Course Description Guide for additional course information

Microsoft Excel & PowerPoint (Formerly 'Applied Digital Skills')

Microsoft Office Suite including Certifications.

7523 Grades 9, 10, 11, 12

½ credit

Communication Systems

► Note: This course may not be offered every year, check description guide.

9132 Grades 9,10,11,12

1 credit

Keyboarding & Microsoft Word (Formerly 'Digital Communications')

Microsoft Word Certification & Google Applications

9012 Grades 9, 10, 11, 12

½ credit

Journalism I

1316 Grades 10, 11, 12

½ credit

↔ **DUAL ENROLLMENT OPTION AVAILABLE**

Journalism II

1336 Grades 10, 11, 12

½ credit

↔ **DUAL ENROLLMENT OPTION AVAILABLE**

Public Speaking

1414 Grades 10, 11, 12

½ credit

Senior Prep for Success

1004 Grade 12

½ credit

Computer Graphics

9127 Grades 9,10, 11, 12

½ credit

Computer Graphics II

► Note: This course may not be offered every year, check description guide

⊗ Recommended: Computer Graphics I

9128 Grades 9,10, 11, 12

½ credit

AP Psychology

⊗ Recommended: Regents or AP American History and/or teacher recommendation

2029 Grades 11, 12

1 credit

Community Service Credit

⊗ ½ credit upon completion of an additional 90 hours of documented community service.



Manufacturing & Construction Skilled Trades Academy (LTA)

Overview

The Lancaster Manufacturing & Construction Skilled Trades Academy is designed for students who are interested in exploring careers in the Manufacturing & Construction industries. During the three-year curriculum, classes will visit local facilities, host various professionals, and discuss current trends in Manufacturing & Construction.

Students in the Skilled Trades Academy will complete a series of courses designed to offer practical experiences. The focus will be on acquiring both the soft skills as well as technical skills for entry-level employment in the manufacturing and construction fields.

The Manufacturing and Skilled Trades Academy (MSTA) realizes not every student wants to go to college. There are students that want to enter the workforce and begin their careers, or they may still want to go to college but may not be prepared, or can afford, that educational rigor and cost. The MSTA is here to help prepare them for that reality by giving them the rudimentary skills to succeed in both.

Manufacturing and Skilled Trades Mission

The mission of the Lancaster High School Manufacturing and Skilled Trades Academy is to develop the student's skills and talents to be successful in the manufacturing and/or trades industries while creating active, productive citizens.

To be more specific the MSTA is being created to:

- prepare students for the realities of the "outside" world be it college or the workforce.
- prepare students for the manufacturing and trades jobs of today and tomorrow.

► **Please Note: You do not have to be a member of the Trades Academy to take Academy classes, however without taking five courses in Technology you may not qualify for an Advanced Regents diploma. Please talk to your counselor.**

Manufacturing & Construction Skilled Trades - Course Descriptions

Trade Apprentice 1 Credit

9103 Grade 10 Semester 1

½ credit

A foundation class for the Trades Academy: This Apprentice course introduces the concepts and terminology of site planning, foundation elements, wall and ceiling structure, roofing styles, through various projects. This class introduces pattern development for sheet metal work; students will then create various sheet metal projects using industry standard tools.

**Skills Covered:* Various Materials Processing, Sheet Metal Fabrication, Basic Construction Concepts

***Sheet metal projects have included trays, cell phone holder, wall hanging shelf*

9101 Grade 10 Semester 2

½ credit

A foundation class for the Trades Academy: This Apprentice course is a survey course that introduces the hands-on skills for a career in trades using carpentry tools, planning, implementing and execution of a project, and beginning concepts of manufacturing. Students will create various projects using industry standards.

**Skills Covered:* Various Materials Processing, Manufacturing Concepts

*** Example project: students each create individual coat rack*

Trade Journeyman 1 Credit

9104 Grade 11 Semester 1

½ credit

Journeyman explores the manufacturing process used in the creating and development of products, either for commercial or industrial use. These concepts are further developed in the CNC Machining & Manufacturing class. The students will also learn about plumbing concepts for both residential and commercial buildings. Projects in both copper and PVC pipe are explored.

**Skills Covered:* Various Materials Processing, Plumbing, Architectural Concepts

***Example projects have included PVC toys for the Lancaster Youth Board, copper sprinkler, copper candle holder*

9102 Grade 11 Semester 2

½ credit

This is a course that explores the manufacturing process more in depth from design to production. Students further their manufacturing skills integrating the design of products with moving parts.

**Skills Covered:* Various Materials Processing, Manufacturing Concepts, Project Management

*** Example project: students each create folding step stool*

Trades: Construction Drawings & Modeling

9106 Grade 11

½ credit

Construction Drawings & Modeling is a course that focuses on understanding drawings related to architecture and building trades, such as plumbing, electrical, and mechanical (MEP). Students will learn plan symbols, review sets of plans of Lancaster High School, and build scale models. They will work in teams and utilize tools, materials, and resources related to the trades.

Trades: Advanced Manufacturing

9105 Grade 11

½ credit

Manufactured items are part of everyday life, yet most students have not been introduced to the high-tech, innovative nature of modern manufacturing. This course illuminates the opportunities to understand manufacturing and puts the students in a position to utilize modern manufacturing processes to create projects. Students will be introduced to technologies such as Injection molding, laser cutting, 3D rapid prototyping, and CNC machining.

Trades: Senior Project.....1 Credit**9107 Grade 12 Semester 1*****½ credit***

In the senior level coursework, the personal management skills needed to gain employment or be successful in college are discussed. Topics include entrepreneurship, lifestyle choices and financial management. In addition, the class will design, develop, and build projects using concrete and metal. Students will practice welding skills and concepts in masonry.

*Skills Covered: Welding, Masonry

**Example projects have included a concrete table with welded legs, a concrete tabletop fire pit

9108 Grade 12 Semester 2***½ credit***

In the senior level coursework, the personal management skills needed to gain employment or be successful in college are discussed specifically concentrating on the soft skills needed to work individually or as a team member. In addition, the class will design, develop, and build projects to meet a personal or community need. Projects are designed around group work and are more complex in design and production and intended to simulate the manufacturing environment.

* Skills Covered: Advanced Materials Processing, Project Management

** Example project: Students work together to manufacture an Adirondack Chair

Other relevant coursework pertinent to the Trades includes:

- Basic Electricity and Electronics
- Home Repair and Maintenance
- Architectural Drafting
- 3D Architecture
- Computer Graphics

Project Lead the Way (PLTW)

Overview

[Project Lead The Way](#) is a national initiative to prepare high school students for a future in the exciting and ever-changing world of Technology and Engineering Technologies. Project Lead The Way is currently being offered in over 5000 schools in all 50 states across the USA.

When you take a PLTW class you will not only be working with hundreds of Lancaster classmates, but you will also be working with tens of thousands of classmates across the United States. So, sign up today for your first class in Project Lead The Way, and take a step in the right direction for your future! See your Counselor today.

You may also consider following our Twitter page [@LHSNYtech](#)



PLTW as an Academy

PLTW is recognized as an academy and requires an application for continuation in the program. As in the past, you can still take PLTW in tandem with another Academy. Just be aware that this may cause scheduling conflicts and you will likely sacrifice a lunch period in that year.

Applications are done in February and acceptance letters are sent out (via email for PLTW applicants) in early March. Check your school email for your letter at that time and confirm receipt in the email. If accepted, sign up for the next PLTW course with your counselor for the upcoming school year...and start engineering greatness!

Program Notes

- ★ Any Project Lead The Way courses may be used to fulfill the third year of Math or Science as required by NYS Regents.
- ★ Project Lead The Way classes may be eligible for RIT college credit.
- ★ Project Lead The Way students can apply for AP College Board Recognition.
- ★ All students will need to complete the application process for the Engineering Academy during their freshman year.



Project Lead the Way Course Descriptions

Engineering Design and Drawing for Production (DDP) - Honors

A Solid Modeling Approach

9162 Grades 9,10, 11, 12

1 credit - honors

★Recommended: Currently maintaining an 80%+ in 8th grade Math

►Note 1: Students apply to the Engineering Academy (PLTW) during their freshman year to continue the Program.

►Note 2: Course satisfies the 1 Regents credit for Art/Music, regardless of advancing into the PLTW program.



For all students interested in the Project Lead The Way or Manufacturing and Skilled Trades Academies or any career path in Science, Technology, Engineering, or Mathematics.

Students use the engineering design process, science, and engineering principles to complete hands-on projects. You will work both individually and in teams to design solutions to a variety of problems using 3D modeling software, 3D printing technology creating drawing sheets to document their work. Software utilized: Autodesk Inventor.

Computer Science Essentials (CSE)

9119 Grades 9, 10, 11, 12

½ credit- honors

★Recommended: (1) For all students with a general interest in Computer programming and robotics.
(2) Strong background in Math and Science



Students will experience the major topics, big ideas, and computational thinking practices used by computing professionals to solve problems and create value for others. This course will empower students to develop computational thinking skills while building confidence that prepares them to advance to Computer Science Principles and Computer Science A.

Principles of Engineering (POE)

9172 Grades 10, 11, 12

1 credit- honors

★Recommended: Honors DDP or Teacher permission from DDP Tech

★Recommended: Permanent or probationary acceptance into the PLTW program



Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

AP Computer Science Principles (CSP)

9129 Grades 10, 11, 12

1 credit

★ Strongly recommended: Honors Computer Science Essentials or 1 year of programming experience.

★ Recommended: Strong background in Math and Science



Open doors in any career with computer science! CSE implements the College Board's 2013 CS Principles framework. Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. In CSE, students create apps for mobile devices, automate tasks in a variety of languages, and find patterns in data. Students collaborate to create and present solutions that can improve people's lives and weigh the ethical and societal issues of how computing and connectivity are changing the world.

Digital Electronics (DE)

9120 Grades 11, 12

1 credit- honors

★ Recommended: Honors DDP and POE, can take POE or CIM concurrently

★ Recommended: Enrolled or Passed level 2 Math

★ Recommended: Permanent or probationary acceptance into the PLTW Academy.



From smartphones to appliances, digital circuits are all around us. This course provides a foundation for students who are interested in electrical engineering, electronics, or circuit design. Students study topics such as combinational and sequential logic and are exposed to circuit design tools used in industry, including logic gates, integrated circuits, and programmable logic devices.

Possible career opportunities consist of Digital Electronics Engineers/Technicians, ranging from designing and manufacturing electrical systems to installing to repairing them. Digital electronic engineers design an assortment of electronic equipment, such as control systems, music players and global positioning systems.

Computer Integrated Manufacturing (CIM)

9130 Grades 10, 11, 12

1 credit- honors

★ Recommended: Honors DDP or permission from DDP Tech

★ Recommended: Permanent or probationary acceptance into the PLTW Academy.



Manufactured items are part of everyday life, yet most students have not been introduced to the high-tech, innovative nature of modern manufacturing. This course illuminates the opportunities related to understanding manufacturing. At the same time, it teaches students about manufacturing processes, product design, robotics, and automation.

Design and Prototyping Lab (DPL)

9113 Grades 10,11,12

½ credit

★Highly Recommended: All PLTW students should take this course to enhance their program experience.

★This is not an official PLTW course

Fabrication Studio is hands-on experience in designing and manufacturing a product. Students will work as a team to design a product and organize all the production needs from materials needed to processing tools and machines. Students may be exposed to cutting edge production methods like CNC Machining, Laser Cutting, and 3D Printing.

Engineering Design and Development (EDD) – The Capstone Class

9173 Grade 12

1 credit- honors

★Recommended: Instructor approval – Honors DDP, DE, POE. Students can take POE, CIM, CSP, or DE concurrently.

★Recommended: Permanent or probationary acceptance into the PLTW Academy.

EDD is a college preparatory course designed to prepare students for the rigor of an engineering program. Students will work in one team for the entire year to solve a real-world problem. In addition to completing the design project, students will learn valuable skills for competing in a demanding college environment. Student grades will be based on a combination of individual and group work.