

Baldwin High School Personalized Learning

ACADEMIC ACADEMIES



Personalized learning through academic academies enables learning in a dynamic, technology rich, and small school environment. The academies provide our students with relevant educational and vocational experiences, leading to the development of strong academics, leadership, communication and career skills. Our students connect the classroom to the real world of work through:

- Professional Shadow Days
- Internships
- Inter-School, Regional and National Competitions
- Co-Curricular Activities
- Extracurricular Clubs and Activities

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“Academic Academies enable learning to occur through a dynamic, technology rich, college and business preparatory small school environment that provides authentic and relevant educational and vocational experiences.”

What is an Academy?

Academic Academies are small learning communities that teach rigorous academic subjects within an industry context. The goal of the Academic Academies Program is to provide students with a multitude of learning experiences to gain the skills and knowledge necessary to succeed in the challenges of the emerging global community. Required courses are linked with interdisciplinary instruction and capstone projects. Academy electives provide career focus to existing curriculum to enhance the development of the skills required for the chosen profession. Extracurricular clubs, shadow days and internships provide real world experiences to help connect the classroom to the world of work.



Academic Academies in the News!

Baldwin UFSD's Academic Academies continually garner accolades and media placements, capturing the attention of educators and political leaders nationwide due to the unique curriculum and real-world application of this highly innovation program. **Scan this QR code with your cell phone camera or QR reader app.**



STEM/ Engineering Academy

Mission Statement

The mission of the STEM/Engineering Academy is to educate a cross-section of students with a variety of interests and strengths to infuse traditional school curricula with real world problem-solving, collaboration and inquiry-based learning, and to prepare the engineers, researchers, inventors and entrepreneurs of the 21st century. The STEM/Engineering Academy aims to provide students with a multitude of learning experiences to gain the skills and knowledge necessary to succeed in the challenges of the emerging global community through a dynamic, technology based, and college preparatory, small school environment.

STEM/Engineering Course Sequence

The STEM/Engineering Academy Electives are linked to a student's science class. Specific electives are required each year and additional electives may be added to a student's program if they have a free period during any year.

First Year

Required:

Design and Discovery 1 Half Year
Design and Discovery 2..... Half Year

Elective:

Coding 1:
Programming Concepts & Problem Solving Full Year

Second Year

Required:

Either College Level Robotics Full Year
or College Level CAD Full Year

Electives:

Introduction to the World of Drones..... Half Year
Coding 1:
Programming Concepts & Problem Solving Full Year

Third Year

Required:

College Level Engineering Full Year

Elective:

Introduction to the World of Drones..... Half Year
AP Computer Science Principles..... Full Year

Fourth Year

Required:

College Level Architecture..... Full Year

Electives:

Introduction to the World of Drones..... Half Year
AP Calculus Full Year
AP Computer Science Principles..... Full Year
AP Computer Science Full Year

Co-Curricular and Extra Curricular Experiences

Students participate in visitations to local engineering firms such as Northrop Grumman and National Grid, attend panel discussions, visit STEM & Engineering fairs and symposiums, are presented with guest speakers, participate in shadow days and competitions, and complete volunteer work and/or an internship.

The FIRST Robotics Team, 1546 CHAOS Inc., provides an after school activity for students. They also compete in the FIRST Robotics Competition Regional competitions in New York City or at Hofstra University. The students started an in-house VEX robot competition for underclassmen, with the support of the Baldwin Foundation for Education, in 2015.

Honors, Awards, and Competitions

Reconstruction & Resiliency Project:

Baldwin's team placed first in the LISTEM Hub's engineering competition (2014).

Spark! Challenges:

Baldwin has participated successfully in two Industrial Engineering competitions sponsored by North Shore LIJ Health System (2014-2015).

First Robotics:

Baldwin has participated in the FIRST Robotics Competition since 2005. The team has won the Rookie All-Star award, Entrepreneurship Award, Sportsmanship Award and reached the semi-finals or finals in 6 of their 10 years of competition.

LI STEM Hub Expo:

Baldwin has demonstrated its FIRST Robotics robots at the LI STEM Career Expo for the past three years.

National Grid Pipeline Program:

Two female Baldwin engineering students were selected for the National Grid Pipeline Program (2013).

Partners

Northrop-Grumman Corp.

National Grid

Cameron Engineering

Dept. of Public Works

Junior Achievement

Hofstra University

FIRST Robotics

Cradle of Aviation Museum

LI STEM Hub

Baldwin Foundation for Education



Global Business & Entrepreneurship Academy

Mission Statement

The goal of the Global Business & Entrepreneurship Academy is to prepare its students to manage and/or own business enterprises in a 21st century global economy. Students will gain an understanding of successful business practices, including finance, investment, research and development, quality control, growth, sales, and returns of investment, as well as the legal aspects of business management and/or entrepreneurship.



Watch Video

Scan this QR code with your cell phone camera or QR reader app to watch a video from a Virtual Enterprise competition.

Global Business & Entrepreneurship Course Sequence

The Global Business & Entrepreneurship Academy electives are linked to a student's social studies class. Specific electives are required each year and additional electives may be added to a student's program if they have a free period during any year.

First Year

Required:

Business and Global Economy Half Year

Electives:

21st Century Entrepreneurial Skills Half Year

Principles of Hospitality and Tourism Half Year

Second Year

Required:

Personal Financial Literacy Half Year

Elective:

21st Century Entrepreneurial Skills Half Year

Sports and Entertainment Marketing Half Year

Third Year

Required:

Professional Business Ethics & Accounting Full Year

Electives:

College Level Business Management Full Year

College Level Business Law Full Year

Fourth Year

Required:

Virtual Enterprise and Senior Internship Full Year

Electives:

College Level Accounting Full Year

College Level Mathematics for Business

and Personal Finance Full Year

Co-Curricular and Extra Curricular Experiences

Students participate in site visitations to local businesses, attend panel discussions, visit career fairs and symposiums, are presented with guest speakers, participate in shadow days and competitions, and complete volunteer work and/or an internship. The Future Business Leaders of America (FBLA) provides an after school activity.

Honors, Awards, and Competitions

Reconstruction & Resiliency Project:

Placed 1st in the LI STEM Hub's Engineering competition (2014)

Spark! Challenges: Baldwin UFSD participates in Spark! Challenges every year (Northwell Health System)

Molloy College Boot Camp: Nine students accepted over the past three years

Career Opportunities in the Accounting Profession: Twenty-seven students accepted in the past three years

Nassau County Comptroller Entrepreneurial Challenge: 3rd in Business Plan Competition (2016); Honorable Mention (2017); 1st in Social Entrepreneurship (2018)

Virtual Enterprise (2017-2018): Regional Awards: Silver Awards in E-Commerce Website, Booth Design, Employee Manual Handbook; Gold Awards in Impact Marketing Board and Company Newsletter; National Awards: Gold Award in Sales Materials; Silver Awards in Sales Pitch Competition

Emerging Business Leaders Competition: 2nd for Human Resources; 2nd for Entrepreneurship; 3rd for Travel & Tourism (2018)

Partners

Madison Square Garden

Nassau County Comptroller's Office

Northwell Health

Baldwin Chamber of Commerce

Baldwin Civic Association

Jack and Jill in Nassau County

Hofstra University

Molloy College

Junior Achievement

FedEx

Microsoft Wander Inn



Medical & Health Sciences Academy

Mission Statement

The mission of the Medical & Health Sciences Academy is to provide a program that will serve a diverse student population with the educational and practical experiences that motivate, educate and prepare students for higher education in the field of medicine. The goal of the program is to introduce students to the many different areas of the health care field and give them an opportunity to develop the skills and knowledge necessary to succeed in a chosen area of health care, including allied health, EMT, radiology, phlebotomy, medical technician, nursing, physician assistant, pharmacy, doctor, and surgeon.



Watch Video

Scan this QR code with your cell phone camera or QR reader app to watch a video of a shadow day at Mercy Medical Center.

Medical & Health Sciences Course Sequence

The Medical & Health Sciences Academy electives are linked to a student’s science class. Specific electives are required each year and additional electives may be added to a student’s program if they have a free period during any year.

First Year

- Required:**
Allied Health Full Year
- Elective:**
Mindfulness..... Half Year

Second Year

- Required:**
EMT Half Year
Health Half Year
- Electives:**
AP Seminar..... Full Year
AP Environmental Science Full Year

Third Year

- Required:**
Medical Technology Half Year
Radiology Half Year
- Electives:**
AP Biology Full Year
AP Chemistry Full Year
AP Research Full Year

Fourth Year

- Required:**
Anatomy and Physiology Full Year
- Electives:**
AP Biology Full Year
AP Chemistry Full Year
AP Research Full Year

Co-Curricular and Extra Curricular Experiences

Students participate in site visitations to local hospitals and medical facilities, attend panel discussions, visit health fairs and symposiums, are presented with guest speakers, participate in shadow days and competitions, and complete volunteer work and/or an internship.

The Mercy Medical Explorers Club provides an after school activity for the students. The students sponsor blood drives at the high school and are planning a community health fair in the future.

Honors, Awards, and Competitions

- District of Distinction:** The Medical & Health Sciences Academy has been named a District of Distinction by District Administration magazine, a national publication (2015).
- Reconstruction & Resiliency Project**
Baldwin’s team placed first in the LI STEM Hub’s Engineering competition (2014).
- Spark! Challenges**
Baldwin has participated successfully in over six competitions sponsored by Northwell Health.
- Medical Marvels Competition**
Freshmen and sophomores participate in Northwell Health Feinstein Institute’s competition each spring.
- White Coat Ceremony**
Northwell Health presented the Medical & Health Sciences Academy with white lab coats.

Partners

- Northwell LIJ Health System
- Mercy Medical Center
- North Shore LIJ Franklin Hospital
- South Nassau Communities Hospital
- Catholic Health Services
- Hofstra University
- Molloy College
- Cold Spring Harbor Laboratory



Partners

Northwell Health Legal Dept.

Hofstra University Law Dept.

Molloy College

Nassau County Court System

Nassau County Police

Government & Law Academy

Mission Statement

The mission of the Government & Law Academy is to provide students with a program that fosters college and career readiness through rigorous coursework and practical experiences in the areas of law and politics. The goal of this program is to expose students to career possibilities in the fields of politics, law, law enforcement, and criminal justice through educational and authentic activities. This program will prepare students for the challenges of post-secondary education and empower students to be independent thinkers and leaders, make good public policy decisions, and create a better community.

Government & Law Course Sequence

The Government & Law Academy electives are linked to a student's social studies class. Specific electives are required each year and additional electives may be added to a student's program if they have a free period during any year.

Law Track

First Year

Required:

Introduction to Law Half Year

Second Year

Required:

Justice in the Modern World Half Year

Electives:

College Level Public Speaking Half Year

AP Seminar Full Year

Third Year

Required:

College Level Law and Crime Half Year

Electives:

AP Research Full Year

College Level Business Law Half Year

College Level Sociology Half Year

College Level Psychology Half Year

AP Psychology Full Year

College Level Public Speaking Half Year

Fourth Year

Required:

See You in Court Half Year

College Level Criminalistics Half Year

Electives:

AP Research Half Year

College Level Sociology Half Year

College Level Psychology Half Year

AP Psychology Full Year

College Level Public Speaking Half Year

Senior Internship Full Year

Government Track

First Year

Required:

Introduction to Law Half Year

Second Year

Required:

Justice in the Modern World Half Year

Electives:

College Level Public Speaking Half Year

AP Seminar Full Year

Third Year

Required:

College Level Law and Crime Half Year

Electives:

AP Research Full Year

Facing History and Ourselves Half Year

College Level Sociology Half Year

College Level Psychology Half Year

AP Psychology Full Year

College Level Public Speaking Half Year

Fourth Year

Required:

College Level Public Affairs Half Year

Either: College Level Eco. Issues and Ideas Half Year

Or: AP Government, Politics, and Economics Full Year

Electives:

AP Research Half Year

College Level Sociology Half Year

College Level Psychology Half Year

AP Psychology Full Year

College Level Public Speaking Half Year

Senior Internship Full Year

Co-Curricular and Extra Curricular Experiences

Students participate in site visitations to local law and government offices and police departments, attend panel discussions, visit colleges and academic departments, attend symposiums, are presented with guest speakers, participate in shadow days and competitions, and complete volunteer work and/or an internship.

The Youth for Political Awareness Club, Mock Trial Team, and Debate Club provide after-school activities for students.

Honors, Awards and Competitions

1st Semester: Baldwin UFSD's Mock Trial Team competes in The Wheatley SWS Mock Trial Tournament against other public and private schools in Nassau County including Roslyn, Manhasset, East Williston, and Kellenberg. Old cases from the NYS Mock Trial Tournament are utilized in this competition.

2nd Semester: Baldwin UFSD's Mock Trial Team competes in the annual New York State Mock Trial Tournament, co-sponsored by the New York Bar Foundation.



New Media Academy

Mission Statement

The mission of Baldwin's New Media Academy is to provide students with opportunities to foster college and career readiness through rigorous coursework and practical experiences in the area of new media. In partnership with Molloy College, the academy strives to map a clear path for students to successfully transition from high school to college, and finally, into the job market as leaders in this rapidly evolving field.

New media exposes students to the design of digital based content; media that supports advocacy and advance social justice; the possibilities and potential of social media; and applications of new media in both traditional and non-traditional careers.

New Media Course Sequence

Broader New Media themes are weaved into a student’s English class as four modules: Multi-modal Composition, Social Media, Digital Storytelling, and Online Expression. These modules will be infused through existing courses in 9th and 10th grades.

First Year

Required:

Media Production Half Year

Elective:

Digital Journalism Half Year

Second Year

Required:

Introduction to New Media Half Year

Electives:

College Level Public Speaking Half Year

Digital Storytelling Half Year

AP Seminar Full Year

Photo 1 and/or Photo 2 Half Year

Third Year

Required:

AP English Language and Composition Full Year

TV Studio Full Year

Electives:

Digital Storytelling Half Year

AP Research Full Year

Introduction to the World of Drones Half Year

Graphic Design and Marketing Full Year

Fourth Year

Required:

Video Production Full Year

Civic Empowerment (PIG) Half Year

Electives:

Digital Journalism Half Year

AP Research Full Year

AP English Literature and Composition Full Year

AP English Language and Composition Full Year

Introduction to the World of Drones Half Year

Co-Curricular and Extra Curricular Experiences

Students participate in site visitations to various new media institutions, attend panel discussions, visit colleges and academic departments, attend symposiums, are presented with guest speakers with expertise in the emerging field, partake in competitions, complete volunteer work, engage in opportunities for independent study and/or an internship, participate in annual New Media Summits, and take part in shadow days and internships as part of the entrepreneurship and career pipelines. There is also the yearbook club, the school newspaper, as well as the literary magazine, *The Phoenix*.

Honors, Awards, and Competitions

During the course of the program, students engage in a number of activities that may lead to special recognition, awards, and opportunities to participate in new media related competitions as they become available.

Partners

Molloy College Center
for Social Innovation

NYS Regional Economic
Development Council

Business Instructor Association
of New York State





Education Academy

Mission Statement

The mission of the Education Academy is to provide students with a program that fosters college and career readiness through rigorous coursework and practical experiences in the area of education. The district strives to create competent, caring, reflective practitioners, who advocate for children and youth; develop learning environments characterized by trust and genuine concern; initiate and respond creatively to change; value service to others; and teach confidently in a changing world.



Education Course Sequence

The Education Academy electives are linked to a student's English classes and college courses through Molloy College. Specific electives are required each year and additional electives may be added to a student's program if they have a free period during any year.

First Year

Required:

Contemporary Topics in Education Half Year

Elective:

Mindfulness Half Year

Second Year

Required:

Introduction to Teaching Half Year

Elective:

AP Seminar Full Year

Third Year

Required:

Critical Issues in Education Full Year

Electives:

AP Psychology Full Year

College Level Psychology Half Year

AP Language and Composition Full Year

AP Research Full Year

Fourth Year

Required:

Foundations in Education Full Year

Electives:

AP Psychology Full Year

College Level Psychology Half Year

AP Literature and Composition Full Year

AP Language and Composition Full Year

College Level Sociology Full Year

AP Research Full Year

Co-Curricular and Extra Curricular Experiences

Students participate in site visitations to K-12 schools and colleges. Students will also be involved in shadowing teachers, and they will participate in student teacher experiences within schools in Baldwin UFSD.

They will also provide after-school tutoring and mentoring for other Baldwin High School students so they can gain a deeper insight into pedagogical practices and the science of learning.

Partner
Molloy College





Fine & Performing Arts Academy

The Fine & Performing Arts Academy will allow our students to explore and refine their specific skills and interests in the arts. There are four distinct concentration paths that will allow our students to best prepare for post-secondary readiness in their given artistic career: **Performing Arts, Fine Arts, Digital Design, and Dramatic Arts**

A key component of the academy experience is for each student to maintain and be recognized for their out of school participation in artistic events, such as NYSSMA festivals, art exhibitions, musicals and drama productions. These experiences are key real-world developmental components to the refinement of what students are learning in curricular courses. Students will also experience shadow days connected to the Long Island University School of Performing Arts or School of Visual Arts, Communications and Digital Technologies and opportunities to collaborate with professional musicians and artists (master classes), which will allow them to develop a sense of the next steps in their artistic career.

Performing Arts Concentration: Instrumental and vocal students will have the opportunity to reach their personal best as musicians through participation in rigorous performance ensembles. All students will be required to participate in after school ensembles on and off campus.

Fine Arts Concentration: Creative arts students will have the ultimate opportunity to develop their own artistic voice, vision and artistic process. Through rigorous, progressive course opportunities and public exhibition opportunities, students will prepare for post-secondary life as an artist.

Digital Design Concentration: Students will explore the world of digital design through a range of courses in photography, computer graphics, and marketing and design. Each of these courses learn how to use Adobe Photoshop to enhance their artistic development. Students will have the opportunity to advance their photographic skills through the use of DSLR cameras while honing their editing skills in a state-of-the-art Apple computer lab. Through rigorous, progressive course opportunities and public exhibition expectations, students will prepare for post-secondary life as an artist in the digital domain.

Dramatic Arts Concentration: Students will explore various roles in theatre arts. Whether on the stage or designing elements for the stage, students will have an opportunity to develop theatrical skills. Leveraging Baldwin High School's extensive, high quality co-curricular musicals and drama productions, students will weave their artistic and theatrical curricular experiences into extensive preparation for a post-secondary portfolio for theatrical life.

Fine & Performing Arts Course Sequence

The Fine & Performing Arts Academy electives are linked to a student's particular classes and college courses through Long Island University. Specific electives are required each year and additional electives may be added to a student's program if they have a free period during any year.

Performing Arts

First Year Required:

Ensemble.....Full Year

Second Year Required:

Ensemble.....Full Year

Third Year Required:

Music Theory/Ensemble.....Full Year

Fourth Year Required:

AP Music Theory.....Full Year

Fine Arts

First Year Required:

Art 1.....Full Year

Second Year Required:

Art 2.....Full Year

Third Year Required:

Art 3.....Full Year

Fourth Year Required:

AP Studio.....Full Year

AP Art History.....Full Year

Digital Design Focus

First Year Required:

Art 1.....Full Year

Second Year Required:

Either Photo 1 and 2.....Half Year

or Computer Graphics 1 and Advanced Computer

Graphics.....Full Year

Third Year Required:

Photo 3 and 4.....Half Year

Either AP Art History.....Full Year

Graphic Design and Marketing.....Full Year

Fourth Year Required:

AP 2D.....Full Year

Dramatic Arts Focus

First Year Required:

Art or Ensemble.....Full Year

Second Year Required:

Stagecraft.....Full Year

Third Year Required:

Theater Arts 1.....Full Year

Fourth Year Required:

Theater Arts 2.....Full Year

Co-Curricular and Extra Curricular Experiences

College and/or professional experience will take place during all four years with the following examples:

- Perform in Metropolitan Youth Orchestra Nassau Suffolk Performing Arts (Performance Demonstration)
- Participate in Master Experiences
- Participate in Nassau County and New York State Ensembles
- After-School Ensembles and Productions
- Long Island University Partnership Courses
- Long Island University Partnership Internship Experience (Shadow Day)

Partner

Long Island University (LIU)



STEM/ENGINEERING ACADEMY PARTNERS

Northrop-Grumman Corporation,
National Grid, Cameron Engineering, Department of Public Works, Junior Achievement, Hofstra University, FIRST Robotics, Cradle of Aviation Museum, LI STEM Hub, Baldwin Foundation for Education

GLOBAL BUSINESS & ENTREPRENEURSHIP ACADEMY PARTNERS

Madison Square Garden, Nassau County Comptroller's Office, Northwell Health, Baldwin Chamber of Commerce, Baldwin Civic Association, Wander Inn, Jack and Jill in Nassau County, Hofstra University, Molloy College, Junior Achievement, FedEx, and Microsoft

MEDICAL & HEALTH SCIENCES ACADEMY PARTNERS

Northwell Health System, Mercy Medical Center, Northwell Health LIJ Franklin Hospital, South Nassau Communities Hospital, Catholic Health Services, Hofstra University, Molloy College, Cold Spring Harbor Laboratory

GOVERNMENT & LAW ACADEMY PARTNERS

Northwell Health Legal Department,
Hofstra University Law Department,
Molloy College, Nassau County Court System,
Nassau County Police

NEW MEDIA ACADEMY PARTNERS

Molloy College, Center for Social Innovation, NYS Regional Economic Development Council, Business Incubator Association of New York State

EDUCATION ACADEMY PARTNER

Molloy College

FINE & PERFORMING ARTS ACADEMY PARTNER

Long Island University

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