High School Electives

Television Production, Automotive, & Science Research

Presentation to the Board of Education

November 12, 2019
Television Studio Production 1

Students learn the basics of filmmaking which include:

- camera use/techniques
- editing
- scriptwriting
- storyboarding
- shot composition
- lighting fundamentals
- sound fundamentals

Students then make short films, commercials, public service announcements, music videos, movie trailers, documentaries and/or animations. In the second half of the course, they learn how to produce live broadcasts which include:

- equipment utilization of the following:
  - sound engineering
  - lighting set up and utilization of board
  - teleprompter
  - graphics
  - video switcher
  - color correction
  - PTZ camera use
  - studio camera use

- students learn and rotate through positions in the control room and studio of the following:
  - floor manager
  - camera operator
  - news anchor
  - shader
  - graphics operator
  - sound engineer
  - teleprompter operator
  - video switcher
Television Studio Production 2

Students apply the knowledge they learned in TV 1 and produce more professional quality productions based on more advanced techniques and theories. A focus on producing an enormous amount of content to add to college/professional portfolios/student competitions and to create packages to play on The Morning Wave, is the goal.

A focus on:

- multi-camera set up and edits
- advanced filmmaking techniques
- drone use

Television Studio Production 3

Students produce a morning informational show that we call "The Morning Wave". This show is completely student run as they rotate through the following jobs:

- floor manager
- camera operator
- news anchor
- shader
- graphics operator
- sound engineer
- teleprompter operator
- video switcher

The show is streamed every day to Smartboards in every classroom in the high school. School news, sports news, weather, etc. is broadcast. "The Morning Wave" highlights students that have completed extraordinary accomplishments both academically and athletically. Administrators, teachers, coaches, and club advisors can all submit announcements. Each show is archived on YouTube for posterity and to showcase work.
Television Studio Production 4

This class is for those students that have taken all four years of Television Studio Production and have started as a freshman. Students take on the role of the producer and oversee every element of creating a live broadcast. This level, as well as TV 3 can be taken as college credit through Suffolk Community College.

To view the archive of all The Morning Wave shows search "Long Beach MVP" on YouTube: https://www.youtube.com/channel/UC3Jxkx5A4X4MbEVZ0iuz3hA/videos
School Film Festival Accolades:

**Commercial:** 3 Locust Valley High School Film Festival wins, 1 honorable mention

**Comedy:** 1 Locust Valley High School Film Festival win, 2 honorable mentions

**Documentary:** 1 LIU Post Student Film Festival win, 1 Locust Valley High School Film Festival win, 1 Locust Valley High School Film Festival honorable mention

**Animation:** 2 Locust Valley High School Film Festival wins

**Public Service Announcement:** 10 Locust Valley High School Film Festival honorable mentions, 2 Locust Valley High School Film Festival wins

**Live Broadcast:** 3 Broadcasting Awards for High School (BASH Awards) wins

**Music Video:** 2 Locust Valley High School Film Festival wins

**Drama:** 8 Locust Valley High School Film Festival honorable mentions, 3 Locust Valley High School Film Festival wins, 1 LIU Post Student Film Festival win, 3 Long Island Media Arts Show wins
Professional Film Festival Accolades:

- short film "Flip" screened at the Long Island International Film Expo in Bellmore, NY (competed against other professional filmmakers work, not just students)
- compilation of short films screened at the Long Island International Film Expo
- short film "Lost & Found" screened at the First Exposure Film Festival in Huntington, NY (shown against other professional filmmakers work, not just students)
- documentary "Nepal Visual Documentary" screened at the Long Beach International Film Festival in Long Beach, NY (shown against other professional filmmakers work, not just students)
- commercial "Operation S.P.L.A.S.H." produced for the Town of Hempstead
SUCCESSFUL LBHS GRADS IN TV/FILM

Christina Raia '07
Founder of Congested Cat Productions, has produced "Summit" a feature film, awarded Best Horror Film at 2015 Manhattan Film Festival, she was awarded Best Director for the same film for the Rhode Island Film Festival. Christina has numerous other awards for other short films and webisode shows she's produced. She was awarded the "10 to Watch Filmmakers in 2018" by Independent Magazine, as well as selected for the prestigious New York Film Festival Artist Academy.

Brian Adamkiewicz '10
Brian produced a short documentary "Build Ramps Not Walls" that won best student film at the Cannes Film Festival in France.
"Flip" short film (7 minutes):
This film won first place for the 2019 Locust Valley Film Festival, an extremely hard category to win which was out of 400 submissions and 14 schools. It also won Best in Show for the Long Island Media Arts Show, out of over 100 films from 18 schools in both Nassau and Suffolk County. It was chosen from the Long Island Media Arts Show as a finalist and was then screened at the Long Island International Film Festival at the Bellmore Movies Theater this summer, which competed against professional film makers. Pretty impressive that high schoolers created something to compete with professionals! Produced by Charles Mandell, James O'Connor, Melody Moy

https://drive.google.com/file/d/1C93I7T0mlUwS8C8AcqH1iBaXXiwIU5oJ/view?usp=sharing

"Get Signed" short film (2:30 minutes):
This film shows the struggles that many young students may face as they arrive home from school to an abusive family member. It's very deep for a teen to create a film like this. Ashanti Sherred is the filmmaker and she is now in her freshman year at the TISCH school at NYU.

https://drive.google.com/file/d/1p3d2-mF0vrqExz-pFjPT3wsoW5EnoyF0/view?usp=sharing

"Mission Luna" animation (1 minute):
This is a short animation film created by Rachel Cheung who is currently a sophomore at the TISCH school at NYU. This film is comprised of over 500 frames of movements of paper or drawings to depicts a motivational story.

https://drive.google.com/file/d/1Y7PFeE5yf17Ka1JEzKWXikA2M4kFCopS/view?usp=sharing

The Morning Wave documentary (3 minutes):
This documentary offers an inside look into the pre-production and production of Long Beach High School's daily morning show called The Morning Wave.

https://drive.google.com/file/d/1-ZQEufSXChMtl8JIlIcdc1RsxCr8fI_p/view?usp=sharing
AUTOMOTIVE FUNDAMENTALS

This course covers the working parts of a car and consumer-related information about parts and services provided by car repair shops. An understanding is developed regarding how the car operates and how to complete simple maintenance procedures.

AUTOMOTIVE SYSTEMS

This course takes an in-depth look into what components and systems make up the automobile and automotive technologies. Students perform hands on tasks ranging from auto body repair to engine rebuilding.
AUTOMOTIVE MECHANICS

Two-period course designed for students interested in a career in the automotive field.

Students will be prepared for entering into the workforce as an entry level automotive technician - realistic work environment

Areas covered:

Vehicle Diagnostic Equipment, Wheel and Tire service, Engine and Transmission service, Performance and Accessories
This unique four-year program offers students an opportunity to perform authentic scientific research as part of their high school experience. Students identify their topic of research, read scientific literature, create hypotheses, perform experiments; record, analyze and discuss results, and state clear conclusions. They will learn time management skills, sophistication in dealing with professional and bibliographic research using online services. The ultimate goal of this program is to prepare students for participation in Intel and other science related competitions.
Research can be wide and varied - Chemistry, Biology, Human Behavior, etc.

Work with outside organizations:

Global Research Project
Barcode Long Island
CSH DNA Lab
Department of Conservation and Waterways - Town of Hempstead
Lab work at SUNY Farmingdale
Culminating presentations at the conclusion of the school year

Science Competitions
Long Island/New York State International Science and Engineering Fair
Long Island Science Congress
Molloy College Toshiba Exploravision
Regeneron Science Talent Search

Culminating presentations at the end of each year
Long Beach Science Research Awards 2018-2019

Jaylyn Umana presented his paper entitled, \textit{DFT+U+J electronic structure calculations of correlated Bi$_2$CrAl$_3$O$_9$} at the 2019 American Physical Society meeting.  
[https://meetings.aps.org/Meeting/MAR19/Session/V40.10](https://meetings.aps.org/Meeting/MAR19/Session/V40.10)

NYS Science and Engineering Fair

Joshua Kapilian - 3rd place - Environmental and Engineering

\textit{Analyzing the Environmental Benefits of a More Efficient Model of United States Airspace Control.}

Long Island Science and Engineering Fair

Paige Carpenter - special award from the Association for Women Geoscientists

\textit{Investigating shoreline dynamics}

Joshua Kapilian - special award from the American Meteorological Society

\textit{Analyzing the Environmental Benefits of a More Efficient Model of United States Airspace Control.}

Toshiba/NSTA Exploravision Competition

Benjamin Armus and William King - Honorable Mention - A Better Hurricane Classification System.
Future Ready Skills

Participation in hands-on learning applicable to careers
Partnerships with experts in the field
Leadership opportunities and collaborative learning
Authentic assessments
Sharing and presenting final products