

# 2016-17 Course Gap Analysis: Status Report and Future Recommendations



Presented to the Board of Education  
Manhasset Public Schools  
November 16, 2016

# Ongoing Commitment to the Improvement of Instruction: Course Gap Status Report and Future Recommendations 2016-17

## Purpose:

- 1) to research and compare the current course offerings in Manhasset with those of other high-performing districts in an effort to identify course gaps and/or areas in need of expansion, continued growth, further exploration, or to consider courses or programs for future implementation;
- 2) to examine student achievement and consider changes and/or modifications in programs and courses in an effort to support more students in experiencing success

# Course Gap Analysis: Where Might There Be Areas for Growth?

This examination of Manhasset's curriculum and course offerings is undertaken in an effort to remain competitive—both locally and globally—and to support and promote continued growth and additional opportunities for all students.

Manhasset administrators examine potential internal changes and contact comparator districts to compare and contrast course offerings, assess where the district is now, where we should be, and consider future recommendations—as appropriate.



## **Courses Added as a Result of the 2014 Course Gap Analysis: A Status Report**

Multivariable Calculus

AP Computer Science

Accounting I & II

# Ongoing Commitment to the Improvement of Instruction: A Course Gap Analysis



## Gap Analysis: Courses/Programs for Future Consideration

Course Name	Brief Description and Rationale for Consideration	For Possible Implementation in What Year?
AP Calculus AB with Lab	The number of students taking AP Calculus has increased dramatically. In order to support our students, we would like to have some sections of AP Calculus AB that would include a lab class. Classes would meet every day and would meet additionally every other day.	2017-18
Statistics	Statistics is a subject that has many practical applications and is the math that most people actually use in life. Many colleges require a semester of statistics. This would be a semester course available to juniors and seniors. This could also generate interest for our AP Statistics course.	2017-18
AP Computer Principles	At the exploration level. It's an entirely new course. It's AP Computer Science without the coding. Not sure if we would have enough student interest to support both this course and AP Computer Science.	?
College Level Accounting	Accounting 1 has been very successful, but we are struggling with the numbers to support an Accounting 2 class. It's still early in our process, but the ultimate goal would be to generate enough interest to support a College Level Accounting course.	?



**Courses Added as a Result of the  
2014 Course Gap Analysis: A Status Report**

Living Environment-8 and 8H

Earth Science Honors

Earth Science Honors/AP Environmental Science

Project Lead the Way (Middle School): Gateway to Technology



Gap Analysis: Courses/Programs for Future Consideration

Course Name	Brief Description and Rationale for Consideration	For Possible Implementation in What Year?
Applied Chemistry	Due to the new Science Initiative, all students will be reaching chemistry in 10 <sup>th</sup> grade. As an alternative to a lab-based, Regents-level course, this course provides an opportunity for students to study the principles and concepts of chemistry.	<b>2017-18</b>
New Electives	<p>We currently offer one credit electives for juniors and seniors not taking regents or AP level courses. Moving forward we will be offering a number of half-credit courses from which students may choose. Examples of these may be:</p> <ul style="list-style-type: none"> <li style="display: inline-block; width: 45%;">-Criminalistics</li> <li style="display: inline-block; width: 45%;">-Environmental Science</li> <li style="display: inline-block; width: 45%;">-Marine Science</li> <li style="display: inline-block; width: 45%;">-Anatomy &amp; Physiology</li> <li style="display: inline-block; width: 45%;">-Science of Natural Disasters</li> <li style="display: inline-block; width: 45%;">-Physics in Everyday Life</li> </ul>	<b>2017-18</b>
Introduction to Engineering Design (IED)	This is a high school level foundation course in the PLTW Engineering Program. In IED students are introduced to the engineering profession and a common approach to the solution of engineering problems, an engineering design process.	<b>2017-18</b>

# Ongoing Commitment to the Improvement of Instruction: A Course Gap Analysis



Course Name	Brief Description and Rationale for Consideration	For Possible Implementation in What Year?
<p>Capstone Program: AP Seminar</p>	<p><b>Rationale:</b> Possible replacement for existing Social Science Research program adding the College Board’s standards and assessments to our research curriculum</p> <p><b>Description:</b> foundational research course</p> <ul style="list-style-type: none"> <li>• sustained practice in investigating issues from multiple perspectives,</li> <li>• cultivates student analysis and writing abilities, so that they can craft, communicate, and defend evidence-based arguments</li> <li>• assessed through a team project and presentation, an individual written essay and presentation, and a written exam</li> </ul>	<p><b>2018-19</b></p>
<p>Capstone Program: AP Research</p>	<ul style="list-style-type: none"> <li>• the second course in the AP Capstone experience</li> <li>• students develop the skills and discipline necessary to conduct independent research in order to produce and defend a scholarly academic thesis</li> <li>• allows students to explore an academic topic, problem, or issue of individual interest more deeply; through this inquiry, students will design, plan, and conduct a year-long mentored, research-based investigation</li> <li>• culminates in an academic thesis paper and a presentation, performance, or exhibition with oral defense</li> </ul>	<p><b>2019-20</b></p>
<p>Additional Information</p>	<p>Students who earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of their choosing, will receive the <b>AP Capstone Diploma™</b>. This signifies their outstanding academic achievement and attainment of college-level research skills.</p> <p>Alternatively, students who earn scores of 3 or higher in AP Seminar and AP Research will receive the <b>AP Seminar and Research Certificate™</b> signifying their attainment of college-level research skills.</p>	



# Long Island Schools Currently Offering AP Capstone Program

- Amityville Memorial High School – Amityville, NY
- Division Avenue High School – Levittown, NY
- East Islip High School – Islip Terrace, NY
- General Douglas MacArthur High School – Levittown, NY
- George W. Hewlett High School – Hewlett, NY
- Huntington High School – Huntington, NY
- Island Trees High School – Levittown, NY
- Islip High School – Islip, NY
- Massapequa High School – Massapequa, NY
- Oyster Bay High School – Oyster Bay, NY
- Patchogue–Medford High School – Medford, NY
- Plainview–Old Bethpage John F Kennedy High School – Plainview, NY
- Sayville High School – West Sayville, NY
- Shoreham–Wading River High School – Shoreham, NY
- The Wheatley School – Old Westbury, NY
- Wantagh High School – Wantagh, NY
- Westhampton Beach High School – Westhampton Beach, NY



**Courses Added as a Result of the  
2014 Course Gap Analysis: A Status Report**

Journalism

Advanced Creative Writing





- The English Department appreciates the opportunity to consider additional elective courses for future years.
- The courses we added as a result of the 2014 Course Gap Analysis have met with success: we've attracted students to both Journalism and Advanced Creative Writing.
- This year we have one section of Film Studies, three of Creative Writing, three of Speech and Debate, one of Journalism and one of Advanced Creative Writing. Each section is a one-semester course.
- Given that we've experienced enrollment fluctuations this year in some electives compared to last year, (e.g. Film and Journalism), prior to consideration of new courses, the English Department wishes to enhance enrollment in current electives so as to avoid over-extension of elective offerings.
- In 2017-18 the English Department will consider the viability of additional electives in anticipation of the 2018-19 school year.



**Courses Added as a Result of the  
2015 Course Gap Analysis: A Status Report**

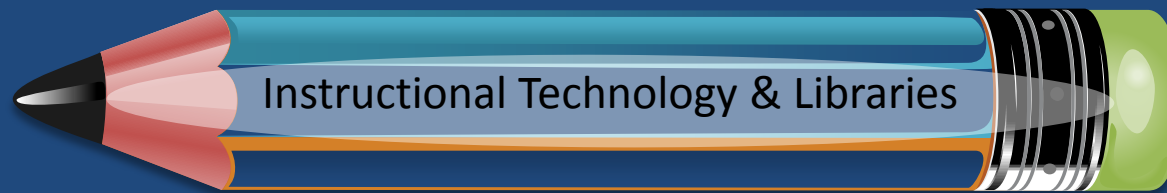
AP Italian





Gap Analysis: Courses/Programs for Future Consideration

Course Name	Brief Description and Rationale for Consideration	For Possible Implementation in What Year?
Grade 6 FLEX (Foreign Language Exploratory Program)	As a result of the 2014 Course Gap Analysis, comparative research and district discussions, community meetings occurred to investigate the feasibility of implementation for this program. It is recommended we not move forward with a FLEX Program for the 2017-18 school year due to significant scheduling challenges, competing instructional demands, daily time constraints, and several other programmatic considerations. We should continue to examine the logistics and feasibility of implementing FLES/FLEX programs periodically—for possible future implementation.	---
Mandarin Chinese	While we offered this course in 2015-2016 and did not have sufficient enrollment in 2016-2017, we would like to consider implementation in future years.	<b>2017-18</b>



### Courses Added as a Result of the 2015-16 Analysis: A Status Report

**Elementary** - in 2015-16 Unit 2 of the Code.org curriculum was introduced to students in the second grade. The response to this pilot was overwhelmingly positive; this year coding is being taught in grades two through four using the Code.org curriculum.

**Secondary – Seventh Grade Computer Applications** – now includes instruction in the use of the Google suite of tools (Docs, Sheets, Slides).

**High School** - Having first offered Introduction to Computer Programming I in 2012, the District added Introduction to Computer Programming II in 2013-14. AP Computer Programming was added in the 2015-16 school year.

## Ongoing Commitment to the Improvement of Instruction: A Course Gap Analysis



### Gap Analysis: Courses/Resource for Future Consideration

Course/Resource	Brief Description and Rationale for Consideration	For Possible Implementation in What Year?
KidOYO	This is an online platform that provides teachers with numerous computer programming resources and allows students to develop a portfolio of their computer programming projects from Grades 2 through 12.	<b>2017-18</b>
Python	A programming language very similar to Java, Python requires students to write code in a simple syntax, rather than by drag and drop coding blocks (as with Scratch & Code.org)	<b>2017-18</b>



## Courses Added as a Result of the 2014 Course Gap Analysis: A Status Report

Digital Photography (Semester)

Animation (Semester)

Advanced 8<sup>th</sup> Grade Art





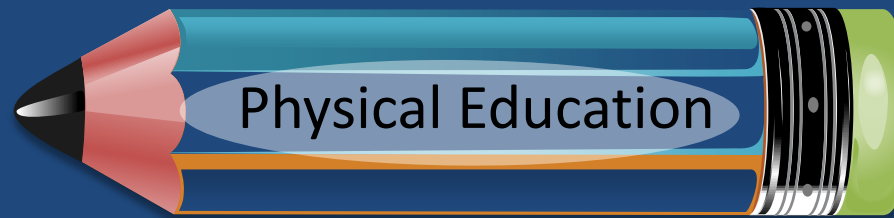
Gap Analysis: Courses/Programs for Future Consideration

Course Name	Brief Description and Rationale for Consideration	For Possible Implementation in What Year?
Digital Photography 2	To further extend the digital photography experience with an eye toward introducing an AP class.	<b>2017-18</b>
Animation 2	To further extend the animation experience.	<b>2017-18</b>



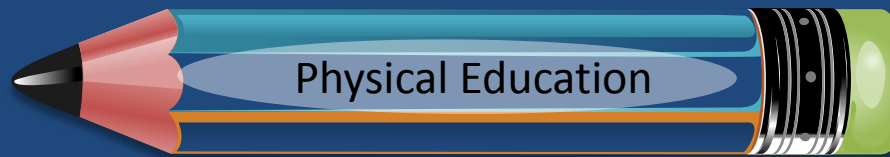
Gap Analysis: Courses/Programs for Future Consideration

Course Name	Brief Description and Rationale for Consideration	For Possible Implementation in What Year?
Shakespeare: From Page to Stage	A half-year course for juniors and seniors. Students will watch performances from and read seven of Shakespeare's plays which may include: <i>Much Ado about Nothing, Twelfth Night, The Tempest, The Taming of the Shrew, Hamlet and more</i> . There will be an emphasis on the theatrical elements of Shakespeare's work.	<b>2017-18</b>
The Writing, Directing, and Design Symposium	Students will be able to select one of the three areas of study (writing, directing, or designing) and work collaboratively on producing a one-act play.	<b>2017-18</b>



**Courses Added as a Result of the  
2014 Course Gap Analysis: A Status Report**

Fitness Elective was added for 2016-2017 School Year



Gap Analysis: Courses/Programs for Future Consideration

Course Name	Brief Description and Rationale for Consideration	For Possible Implementation in What Year?
Project Adventure	<p>One Year Course-Alternate Days; Grades 11-12.                      ½ Credit: Through a series of sequential activities, involving physical, mental, and social components students will be involved in developing group and individual decision making, problem solving, and goal setting strategies. Project Adventure incorporates the use of cooperative games, trust activities, initiatives, stunts, low and high elements. The main emphasis of the program is “Challenge” by Choice. Challenge allows students to choose their level of challenge based on their individual comfort zone. If individuals are given the opportunity to try in a supportive atmosphere, they can discover excellence within themselves as they build self-confidence, self-esteem, trust, leadership, and cooperation.</p>	<p><b>2017-18</b></p>
Leisure Time Activities	<p>One Year Course-Alternate Days; Grades 11-12. ½ Credit:                      Students will have opportunities during the school year to participate in a variety of leisure activities. Instruction will focus on activities such as tennis, golf, rollerblading, ice-skating, cross-country skiing, cycling, yoga and pilates. Information on nutrition will also be presented.</p>	<p><b>2018-19</b></p>



For additional information on the content and requirements of Manhasset's course offerings, use the link below. Please note that the 2017-18 Course Catalogue will be available in early January.

[http://www.manhasset.k12.ny.us/highschool.cfm?  
subpage=17944](http://www.manhasset.k12.ny.us/highschool.cfm?subpage=17944)



# Thank You

