

<p>HONEOYE FALLS-LIMA CENTRAL SCHOOL DISTRICT</p> <p>Quality Education Design: A Student-Centered Approach to Program Budget Development for the 2018-19 School Year</p> <p>Operational Plan 2018-19</p>	
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Decision Input Unit Name:	Mathematics
Site:	9-12
DIU Chairperson:	Jacquelyn Davern

Name/Title of Committee Members	Name/Title of Committee Members
Jada Balmer, Student Representative	Deborah Mackey, Math Teacher
Linda Chapman, Math Teacher	John Maloney, Math Teacher
Russell Clair, Math / Computer Science Teacher	Sharon Mosher, Math Teacher
Jacquelyn Davern, Math Teacher	Lori Talbott, Math Teacher
Michael Eastman, Community Member	Kara Utegg, Math Teacher
Cheryl Glamack, Special Education Teacher	Aileen Whitney, Math Teacher
Joan Kelley, Math Teacher	

The DIU/PBAC process is one of continuous improvement. Please developed goals by considering the questions listed in the diagram below. For additional information, see the presentation on *“What is a Strong Goal”* and the *HFL PBAC Guidelines* document.



Goals for 2018 - 2019

Select approximately three goals to prioritize for the 2018-2019 budget year. For each goal, describe how you will know if you accomplish each goal. Please detail the budget impacts and resources you will need to accomplish each goal.

1. During the 2018-19 school year, each member of the high school math department will increase his or her knowledge of vertical curriculum alignment. The goal is for each faculty member to develop a better understanding of how students entering his or her class have been prepared by prior courses, and the preparation expected of students in subsequent courses.

How will we know this has been accomplished?

- The following curriculum maps will be updated in e-Doctrina and shared with department members: Algebra I Extended Year 1 and Year 2, Pre-Calculus Honors, MCC Statistics, AP Calculus AB, and AP Calculus BC
- Math teachers from different grade levels and buildings will collaborate on vertical alignment
- High School teachers will utilize department meeting time to familiarize themselves with all three Regents exams.

Budget impacts and resources needed

- Curriculum writing time during the summer of 2018 to revise existing curriculum maps
- Provide collaboration opportunities across grade levels and buildings during Superintendent Conference Days

2. Incorporate an online program into math lab curriculum to enhance differentiated instruction and support district technology initiatives.

How will we know this has been accomplished?

- Students will be using the online program in math lab
- In labs with students taking different courses, students will have more time on task because the students will get instant feedback on what they are studying from the computer program
- Lab teachers will be able to review student progress and identify areas of weakness to differentiate instruction

Budget impacts and resources needed

- Funds allotted to purchase the online program for approximately 50 students
- Math department will need a cart of tablets to share among the math lab students
- Staff development time for (3) math lab teachers to learn how to use the program and create lesson plans
- Lab teachers will develop a method to assess if the online program has enhanced student learning

3. By the end of the 2018-19 school year, we will increase our preparedness to support student wellness and address needs related to mental health, substance abuse, and inclusion from a weighted average of 2.1 to 3, as evidenced by the HS Staff Preparedness Survey.

How will we know this has been accomplished?

- Teachers will be provided instruction on how to identify students who are struggling with mental health issues including anxiety and substance abuse
- Teachers will be provided with strategies to use in the classroom that support student wellness

Budget impacts and resources needed

- Targeted professional development to build awareness and preparedness to support student wellness
- Substance Abuse Task Force to identify trends and needs
- Target student program development to promote student wellness

Goals for the current School Year (2017-2018)

Please list your DIU goals for the current school year. For each goal, please indicate if we are on plan with this goal and what measures you are tracking.

1. Better utilize the math lab to help struggling students enrolled in math classes that culminate in a Regents exam in June.

- Math Lab is functioning well this year, due to advance planning and good communication. Math lab teachers who also teach courses that lab supports is beneficial. We are currently exploring online programs to enhance our ability to differentiate instruction. Since all math lab sections have students taking more than one course, the computer program will make instruction more efficient. If the department finds an online program to adopt, we will need more devices available for student use. Tablets are preferred, because the pen will be easier for students to show work compared to a touch screen.

2. Increase the number of students who achieve mastery on all three Regents exams.
 - The number of students who achieved mastery on the June 2017 Regents exams dropped for two out of three exams. Our department performed a data analysis of each exam and brainstormed ways to address the standards that our students scored significantly lower than BOCES. We recognize that all cohorts perform differently and that the areas of weakness for last year's group may not be the same as current students, but, we will revisit the data analysis as we approach midterms and the Regents exams in June and use it to drive our instruction. Although the implementation of common core is behind us, it remains critical that common planning time be provided when a new teacher is assigned to that course to ensure opportunities for collaboration and horizontal alignment between sections.
3. Implement the recommendations from the Math Program Evaluation Committee, which will complete their work in the spring.
 - The evaluation was not completed until the end of last year. Joan Kelley, Sharon Mosher, and Aileen Whitney represented the Math Department on the Program Evaluation Committee. Goals for 2018-2019 will come from the recommendations in the Program Evaluation.

Goals for the previous School Year (2016-2017)

Please list your DIU goals for the school year just finished this past June. For each goal, please indicate if we achieved this goal and the measures you tracked.

1. Pre-Calculus and Pre-Calculus Honors classes will implement the Common Core curriculum.
 - The Common Core standards were implemented in both the Pre-Calculus and Pre-Calculus Honors classes. The midterm and final exam were deemed to be very good tests of the standards. The teachers are reflecting as they teach the course for the second year and make necessary adjustments to the curriculum map. Incoming Calculus AB students performed well on their summer projects. This is the first group of students who have had the Common Core for Algebra I, Geometry, Algebra 2 and now Precalculus. These courses have had a positive impact on student learning.
2. In order to provide more opportunities for students to study Computer Science, the Math Department will offer AP Computer Science Principles. This course is designed not as a programming course, but as an introduction to all aspects of computer science from hardware to software to networking to programming.
 - AP Computer Science Principles had a successful first year at HF-L. The first 12 students to take the newly offered course achieved the following AP scores: level 5 (2 students), level 4 (5), and level 3 (5). Unfortunately, there were not enough students to offer the AP Computer Science Principles course this year. There are two students this year who are following an online curriculum. The math department recognizes that computer science courses are an elective and have discussed some ideas to help market the courses and maintain enrollment. One idea was to visit the Algebra classes in the middle school to advertise the computer science courses that are available to incoming freshmen who have taken Algebra as an 8th grader.
3. The Math Lab will have iPads for the students to use to develop their skills. In addition, the physical appearance of the classroom will be updated to make it more inviting to students.
 - New furniture all arrived by the end of last year. District technology goals are evolving and will have an effect on the technology available for use in Math Lab.