PAC Meeting
April 21, 2017

Presentation by head of Math department: Kim Schjelderup

Math department provides a program that:

1. **Supports struggling and emerging learners**
   - offers smaller classes for struggling learners
   - provides additional adult support in class
   - offers 2 year Algebra 1 study
   - provides program that prepares students for college
   - record of excellent results on Algebra EOC (end of course exam)
   - requires daily practice in knowledge base and skills

2. **Meets the challenges of dedicated math student**
   - provides opportunities beyond Algebra 1
   - allows students to extend learning beyond HS sequence
   - offers opportunities for college level courses
   - offers options for college credit
   - requires independent learning
   - prepares for success in academically challenging colleges

3. **Support all math students**
   - tutoring available (tutors are MIHS teachers)
     - before and after school and evenings (Wednesday 6pm) every week
     - funded by PTSA and foundation grants
   - cooperative planning of courses
   - consistency in reviews of assessments
   - common goals and assessments

Question: what are students getting tutoring for?
Answer: will get help with whatever student needs

Tutoring primarily focused on core classes. Students in advanced courses often work directly with teacher 1-1.

Teacher paid contract is 7:45-3:15, but math department teachers will stay late if student needs help.
During the week of exams, tutoring can be very crowded, but additional teachers will help if necessary.

**Pathways:**

**If had Pre-Algebra in 8th Grade:**
9 - Alg E1-2/Alg 1  
10 - Alg E3-4/Geometry  
11 - Geometry/Alg 2  
12 - Electives available:  
   Alg 2 (for 11th grade Geo) - *Alg 2 is HS grad requirement*  
   Precalc  
   AP Stat  

**If had Alg 1 in 8th grade:**
9 - Geometry/Geo H  
10 - Alg 2/Alg 2 H  
11 - Precalc/Precalc H  
12 - Electives:  
   Intro to Calc (but not if had Precalc H in 11th grade)  
   AP Stat  
   AP Calc  

**If had Geometry in 8th grade:**
9 - Alg 2 H  
10 - Precalc H  
11 - AP Stat/AP Calc  
12 - Electives:  
   AP Stat (if not taken in 11th grade)  
   AP Calc (if AP Stat taken in 11th grade)  
   Advanced Calc (if AP Calc taken in 11th grade)  

Question regarding naming of Calculus courses: Why not a course that is just “Calculus”?
Answer: Intro to Calculus is essentially the same.

Notes:
Non-accelerated students have the option of taking honors courses and students one year accelerated can select to take regular level courses. Students 2 years or more accelerated are enrolled in honors level courses. Regardless of level,
the 3 year core program is for all students

UW releases stats on students GPA in college (by department). For MI, math is the only department where our graduates’ GPA is not lower at UW than in HS.

**Workload estimates: (avg time per week after school)**

Regular level - core courses:
- Alg E1-2/Alg E3-4 2 hours
- Alg 1 2-4 hours
- Geometry 2-4 hours
- Alg 2 3-5 hours
- Alg 3 2-4 hours
- Precalc 3-5 hours

Honors level - core courses:
- Geo H 3-5 hours
- Alg 2 H 3-5 hours
- Precalc H 4-6 hours

Advanced courses: 4-6 hours

Question: Is AP Adv Calc not being offered next year? Answer: no, MIHS will have sufficient funding. The number of sections available is always dependent on the number of students taking a class. In general, MIHS can’t offer a class for less than 20 students.