

HUFSD Secondary Math Curriculum Enhancements

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Rationale

Due to the curriculum shift of Algebra 1 instruction for all grade 8 students in the 2019-2020 school year, we are looking forward to:

- offering additional course options at the High School level in the 2020-2021 school year
- allowing students to strengthen their mathematical experiences and coursework at Huntington High School

Math Course Proposals

- Honors Precalculus (2019-2020)
- Computer Science Essentials (2020-2021)
- AP Computer Science A (2020-2021)
- Intermediate Algebra (2020-2021)
- Precalculus Beacon Program (2020-2021)
- Introduction to Statistics (2020-2021)
- SAT/ACT Math Prep (2020-2021)

Honors Precalculus

- Replaces existing Honors Precalculus AB and BC
- Course will prepare students for AP Calculus AB or BC depending on student interest and achievement
- Provides more flexibility in scheduling for students
- Implementation in 2019-2020

Project Lead the Way Computer Science Essentials

- Engages students in computational thinking practices and collaboration strategies
- Introduces students to coding fundamentals through an approachable programming language
- Empowers students to become creators of the technology all around them
- Implementation in 2020-2021 (grades 9 and 10)

AP Computer Science

- Introductory college level computer science course
- Students will use computers to design, implement and analyze solutions to problems
- This course will provide the analytical backbone that is useful for all students in any career
- Students need a foundation of mathematical reasoning as a prerequisite
- Implementation in 2020-2021

Intermediate Algebra

- Bridge course designed for students that pass the Algebra course in 8th grade, but not the Algebra Regents
- First half will prepare students for the January Algebra regents
- Second half will cover more advanced Algebra topics
- Allows students to earn high school credit for the Algebra course passed in the 8th grade (once they pass the Algebra Regents)
- Implementation in 2020-2021

Beacon Program- Precalculus

(Partnership with Suffolk Community College)

- Program for juniors and seniors enrolled in the non-honors precalculus course
- Students can opt-in to earn 3 college credits at a cost of \$171
- Course syllabus consistent with existing precalculus course
- Successful completion can satisfy the math requirement at SUNY schools for students majoring in subjects other than mathematics
- Implementation in 2020-2021



Introduction to Statistics

- Use of statistical reasoning and models relevant to the real world in the fields of medicine, business, political science, and psychology
- Topics include design of experiments, data analysis, probability, and hypothesis testing
- Increasing number of occupations require data analysis and statistical reasoning
- Implementation in 2020-2021

SAT/ACT Math Prep

- Designed to prepare students for the rigors of standardized testing
- Primary goal is to identify and implement test taking strategies to improve student performance and increase the opportunity for college acceptances and scholarships
- Increase access for students who may not be able to afford outside test prep opportunities
- Implementation in 2020-2021

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Q & A