Statistical Methods and Health in Chicago

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The neighborhoods of Chicago lend themselves to a rich study of epidemiology. In this unit, students learn to apply core statistical methods to health data sets. Students will work to understand the purpose and the power of summarizing these data sets as they represent and model complex health situations in their surrounding community. Through team exploration and guided research, they will complete and present an in depth statistical study into a relevant health topic of their choice. Teams will then work to communicate their findings to their school community as they learn to advocate for themselves and their health. Students in this 11th Grade IB Diploma Program Mathematics course will also be expected to make interdisciplinary connections in their IB Diploma Program Biology course throughout the school year as they investigate the biological underpinnings of health and disease.

Note: The scope and sequence of this 11th Grade Diploma Program Mathematics course is similar to that of an Honors Precalculus course. Prerequisites for this course are High School Algebra, Geometry, and Advanced Algebra with Trigonometry.

(Developed for Diploma Program Mathematics Standard Level, grade 11; recommended for Statistics, Algebra I-II, and Biology and related Life Science, grades 9-12)