## City College Bulletin 1915-1919

## MATHEMATICS.

- \*Starred courses are offered in the Evening Session also.
- \*20. Solid Geometry.

Text-book: Durell, Plane and Solid Geometry. One term, three hours a week; counts 3.

\*21 TRIGONOMETRY.

Text-book: Crawley, Short Course in Trigonometry. One term, three hours a week; counts 3.

\*22. ADVANCED ALGEBRA.

Text-book: Hawkes, Advanced Algebra.

Science students who do not present Advanced Algebra for entrance. Prescribed

Arts students who do not present Advanced Algebra for for:

entrance, aless Mathematics 3a is elected.
One term, three hours a week; counts 3.

3a. Analytic Geometry (Outline).

Text-book: Wentworth, Analytic Geometry.

Prerequisite: Entrance Trigonometry or Mathematics 21.

Elective for students in Arts.

One term, three hours a week; counts 3.

4a. DIFFERENTIAL AND INTEGRAL CALCULUS (Outline).

Text-books: Fisher, Infinitesimal Calculus, Osborne, Differential and Integral Calculus.

Prerequisite: Mathematics 3a. Elective for students in Arts. One term, three hours a week, counts 3.

\*1. Analytic Geometry and Calculus.

Text-books: Wentworth, Analytic Geometry, Osgood, A First Course in the Differential and Integral Calculus.

Prerequisites: Entrance Trigonometry or Mathematics 21, and Entrance Advanced Algebra or Mathematics 22.

Prescribed for students in Science, elective for students in Arts.

One term, five hours a week; counts 5.

## CCNY 1915-1919

## \*2. CALCULUS.

Text-book: Osgood, A First Course in the Differential and Integral Calculus, or Osborne, Differential and Integral Calculus

Prerequisite: Mathematics 1.
Prescribed for students in Science, elective for students in Arts. One term, five hours a week; counts 5.

ARITHMETIC. Professor Saurel Text-books: Tannery, Leçons d'Arithmétique; Fine, College Algebra.

Prerequisites: Mathematics 2 or 4a, and a good reading knowledge of French.

Fall term, two hours a week; counts 2. [Not offered in 1916-1917]

HISTORY OF MATHEMATICS.

Professor Allen.

Prerequisite: Mathematics 2 or 4a. Spring term, two hours a week; counts 2.

ADVANCED DIFFERENTIAL CALCULUS. Professor Reynolds. Text-book: Williamson, Differential Calculus. Prerequisite: Mathematics 2.

Fall term, three hours a week; counts 3.

ADVANCED INTEGRAL CALCULUS.

Professor Reynolds.

Text-book: Williamson, Integral Calculus. Prerequisite: Mathematics 2.

Spring term, three hours a week, counts 3.

9 Ordinary Differential | Fall term, Professor Saurel. EQUATIONS \ Spring term, Professor Reynolds

Text-book: Murray, Differential Equations.

Prerequisite: Mathematics 2.

One term, three hours a week; counts 3.

∫ Fall term, 10. VECTOR ANALYSIS. Professor Reynolds. Spring term, Professor Saurel.

Text-book: Gibbs, Vector Analysis.

Prerequisite: Mathematics 2.

One term, three hours a week; counts 3.

11. DIFFERENTIAL GEOMETRY. Professor Saurel.

Text-book: Kommerell and Kommerell, Theorie der Raumkurven und Flächen.

Prerequisites: Mathematics 9 and a reading knowledge of German. Fall term, three hours a week; counts 3.

Professor Saurel. 12. Partial Differential Equations. Text-books: Johnson, Differential Equations; Byerly, Fourier's Series and Spherical Harmonics.

Prerequisites: Mathematics 9 and 11. Spring term. three hours a week; counts 3.

[Not offered in 1916-1917]

3. MATHEMATICAL THEORY OF INVESTMENT.

Professor Reynolds.

Text-book: Skinner, The Mathematical Theory of Investment. Prerequisite: The Completion of the Prescribed Mathematics.

Fall term, two hours a week; counts 2.

Professor Saurel.

14. THEORY OF PROBABILITY. Prerequisite: Mathematics 2 or 4a. Spring term, three hours a week; counts 3.

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