

MATHEMATICS.—*Continued.*

Mathematics.

Higher Algebra—Exponential Theorem and Theory of Logarithms, Series, Probability, Theory of Equations.

Determinants—*Hall and Knight's* Higher Algebra.

Higher Trigonometry—DeMoivre's Theorem and its applications. Trigonometric Series and Factors. *Lock's* Higher Trigonometry.

(Three hours a week.)

3. SCIENCE.

PHYSICS.

FIRST YEAR—Lectures on Molecular Physics, Hydrostatics, Hydrodynamics, the Kinetic Theory of Gases, Heat, Light, Sound, Electricity, and Magnetism, Text Book, *Gage's* Physics.

Books of Reference—Deschanel's *Physics*, Tyndall's *Sound, Heat as a Mode of Motion, Light*, Schellen's *Spectrum Analysis*, and Cassell's *Electricity in the Service of Man*.

(Four hours a week with laboratory work and drawing.)

BOTANY AND BIOLOGY.

SECOND YEAR—Lectures on Morphology and Classification of Plants. Laboratory Work in Microscopic and Determinative Botany. Text Book, Gray's *Lessons and Manual*.

Books of Reference—Bessey's Botany and Sach's Text Book of Botany.

Lectures on the Properties of Living Matter and the Great Problems of Biology.

Books of Reference—Sedgwick & Wilson's *Biology* and Schäfer's *Histology*.

(Four hours a week during first term.)