Continuity between 1955 which had semesters, and 1965, suggests 1965 also had semesters confirmed.

work during Years IV and V. Further, these them to the study of practical and theoretical and the faculty leaders and lecturers finding who are personally experienced in

t will devote a nine-week summer session at guage they studied as undergraduates.

> the students will make the transition to IS is least active. Housing problems will be gistered before the autumn term begins.

at SAIS in Washington, but will devote ward concluding undergraduate degree re-
ninar (or two one semester seminars) super-
rs and culminating in a senior thesis. The will be spent in the regular SAIS graduate he B. A. degree at the end of Year IV.
to graduate studies in Washington, though tool’s Bologna Center in Italy. At the end the Master’s degree by the SAIS faculty.

ips, graduate fellowships, and student loans sism program. In accordance with University based upon:
cademic achievements, school background, and for financial assistance.

studies

id in its School of Advanced International program. The SAIS program, leading to to the Ph.D., is based on area studies, well fundamental disciplines such as international plomacy; and by critical analyses of United principally toward meeting some of the tioners and scholars who know the social, pects of the areas in which they will work, t methods of critical analysis and policy

a new building on Massachusetts Avenue site academic facility includes classrooms, quarters, cafeteria, etc.

admission to both programs in the normal page 51 of this catalog. Those desiring the 2 Relations should to specify.

J. Hopkins 1965-66

MATHEMATICS

Depending on a student’s preparation and interests, the first year of mathematics is usually either (a) Analytic Geometry, Calculus 5, Calculus 6, or (b) Calculus 6-7, or (c) Algebra 15H-16H and Calculus 6H (second term). The choice (b) or (c) is recommended by most physical science departments, the choice (b) by most engineering departments. The courses Algebra 16H-16H and Calculus 6H-6H are open only to qualified students (not necessarily mathematics majors) interested in an enriched program in mathematics. The courses Calculus 6, Calculus 7, Advanced Calculus 19, and Advanced Calculus 20 are offered both terms.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

In order to obtain a B. A. degree a major in the department of mathematics must satisfy the following minimal requirements together with the general degree requirements set forth on page 76.

MATHEMATICS. In addition to the topics in advanced calculus, the candidate should have a knowledge of algebra and theory of functions of real and of complex variables, equivalent to that provided by Mathematics 303-304, 910, and 925.

PHYSICS. The candidate should have a knowledge of at least one topic beyond general physics, such as modern physics or thermodynamics and kinetic theory.

Students who expect to study mathematics beyond the B. A. degree are advised to obtain a reading knowledge of both French and German.

COURSES

Trigonometry 1. Two hours weekly.

Analytic Geometry 5. Four hours weekly. 

Prerequisites: Trigonometry (may be taken concurrently).

Calculus 6-7. Four hours weekly.

Differential and integral calculus of functions of one real variable (including elements of analytic geometry).

Algebra 15H-16H. Four hours weekly.

Algebraic structures and linear algebra. This course is open only to students qualifying for an enriched mathematics program. Algebra 16H can be taken simultaneously with Calculus 5 or 6H in the second term.

Advanced Calculus 19-20. Three hours weekly.

Functions of several variables, partial derivatives and multiple integrals, sequences and series of functions, improper integrals. Vector analysis and related topics. Fourier series. Prerequisites: Calculus 7.

Linear Algebra 16. Four hours weekly.

Vector spaces, linear transformations, matrices, and their normal forms. Prerequisites: Calculus 7.

This presumably means 2 terms.
Differential Equations 301. Associate Professor HAVILAND. Three hours weekly. 
**Prerequisite:** Advanced Calculus 19 and Linear Algebra 15.

**Introduction to Advanced Algebra 303-304. Three hours weekly.**
**Prerequisite:** Consent of the instructor.

**Functions of a Complex Variable 310. Three hours weekly.**
Cauchy-Riemann differential equations, Cauchy's integral theorem and integral formulæ, power series, analytic continuation, poles, essential singularities, residues and contour integrals, entire functions. **Prerequisite:** Advanced Calculus 20.

**Introduction to Basic Analysis 325. Three hours weekly.**
The real number system, limits and continuity, derivatives, Riemann integrals, implicit functions, infinite series and products, uniform convergence, multiple limits, the elementary functions, definite integrals containing a parameter.

**Fourier Analysis (for Physicists) 327. Three hours weekly.**

**Finite Matrices (for Physicists) 329. Three hours weekly.**

**Linear Differential Equations (for Physicists) 330. Three hours weekly.**

**Functions of a Complex Variable (for Physicists) 332. Three hours weekly.**

**Introduction to Linear Analysis 335-336. Three hours weekly.**
**Prerequisite:** Advanced Calculus 20.

*Artist's rendering of new Oceanography Building.*