

BULLETIN  
OF  
THE UNIVERSITY OF TEXAS

No. 73

ISSUED SEMI-MONTHLY

Official Series, No. 14

April 1, 1906

THIS BOOK IS NOT  
FOR CIRCULATION

CATALOGUE

1905-1906

MAIN UNIVERSITY  
AUSTIN  
DEPARTMENT OF MEDICINE  
GALVESTON



*Title & abt. to  
of Dep't 1*

ENTERED AS SECOND-CLASS MAIL MATTER AT THE POSTOFFICE  
AT AUSTIN, TEXAS

## PURE MATHEMATICS:

ing of Mathematics in secondary schools. This course will be open to those who have had Mathematics 1 or Mathematics 2.

Mr. Rice.

*For Undergraduates and Graduates.*

The following courses are not open to students who have completed less than two full courses in Mathematics:

10. *Introduction to Modern Analytical Geometry (full course).* 3.

This course is intended for those who wish to extend their study of analytical geometry further than is possible in Mathematics 4, which is a prerequisite. This course deals with the modern transformation theories of space and their applications to geometry. Lectures and parallel reading.

Mr. \_\_\_\_\_.

11. *Advanced Calculus (full course).* 3.

This course, which is open only to those who have taken Mathematics 3, aims at a rigorous presentation of the foundations of the calculus. Among the topics considered will be the convergence of infinite series and their term by term integration, improper integrals, differential geometry.

Professor PORTER.

12. *Theoretical Mechanics (full course).* 3.

The elements of Statics and Dynamics will be considered, and, as far as possible, actual problems presented by nature will be studied. For this course, which is also Course 6 in the School of Physics, Mathematics 3 and 4 and Physics 1 are prerequisite, and Civil Engineering 4 is desirable.

Professor BENEDICT.

## PURE MATHEMATICS:

*For Graduates.*

13. *Advanced Mathematics.*

Each year two or more courses of a somewhat advanced nature are given for the benefit of students making Mathematics the major subject for the Master's degree, or for those wishing to broaden their knowledge for technical or other purposes. The topics treated vary from year to year, and are usually selected from the following list (see also Course 10, *School of Applied Mathematics*):

- (a) Elementary Differential Equations.  
(b) Infinite Series and Products.  
(c) Differential Geometry.

Professor PORTER.

14. *Introduction to Modern Analysis (full course).* 3.

This course, which presupposes Mathematics 11, is intended to give the student some idea of the scope and power of function-theoretic methods and some insight into the dominant ideas of modern Mathematics.

Professor PORTER.

**SCHOOL OF APPLIED MATHEMATICS.**

HARRY YANDELL BENEDICT, PH. D., *Professor of Applied Mathematics.*

CHARLES D. RICE, M. S., *Instructor in Applied Mathematics.*

Without neglecting unduly the logical aspects of the mathematical processes, the main object of the courses in this school is to consider the applications of mathematics to physical science.

Courses 1, 2, and 3, or their equivalent, are required for all Engineering degrees.

## APPLIED MATHEMATICS:

*For Undergraduates.*

1. *Introductory Mathematics for Engineering Students* (full course). 3.

Fall Term: Plane Trigonometry.  
 Winter Term: Algebra.  
 Spring Term: Solid Geometry.

2. *Analytics for Engineering Students* (two-thirds course). 2.

This course will deal with the elements of analytical geometry, care being taken to make the course as useful as possible for technical students.

3. *Calculus for Engineering Students* (full course). 3.

In this course as many of the elementary applications of the calculus as time permits will be given along with a sufficiently careful treatment of the underlying theory.

4. *Popular Astronomy* (one-third course). Fall Term. 3.

This will be a culture course for those desiring a general, non-technical knowledge of descriptive astronomy.

An acquaintance with the elements of plane trigonometry and the amount of physics given in a good high school is prerequisite. A more extended knowledge of mathematics and physics will of course facilitate the progress of the student. The mathematical side of astronomy will not be especially emphasized. The course will be illustrated by lantern slides, and some use will be made of a five-inch equatorial.

5. *Theoretical Mechanics* (full course). 3.

In this course the elements of mechanics will be considered, including a few easy applications of the equations of Lagrange. As far as possible actual problems presented by nature will be studied.

1905-06

Applied Math

## APPLIED MATHEMATICS:

A first-year course in calculus and two full courses in physics are prerequisite. This course is also Mathematics 12 or Physics 6.

(Omitted in 1907-1908.)

*For Graduates.*

10. *Advanced Applied Mathematics.*

Whenever a sufficient number of students apply and time permits, a course, more or less advanced, will be given. It will deal with one or more of the following topics: (a) Advanced Mechanics; (b) Least Squares; (c) Calculation of Orbits; (d) Celestial Mechanics. As far as possible, the course will be arranged to meet the needs of the students electing it. Credit will vary according to the work done.

**SCHOOL OF PHILOSOPHY.**

SIDNEY EDWARD MEZES, PH. D., *Professor of Philosophy.*

WILLIAM KELLEY WRIGHT, PH. D., *Instructor in Philosophy.*

Courses in Philosophy are not open to Freshmen, nor to Sophomores unless their rank is high.

Courses 1, 2, and 3 form a general introduction to philosophical study, and are recommended as a preparation for further work in Philosophy. Courses 30 and 9 lead also to advanced work, but not to work in Psychology. Course 40 is designed for those desiring only a one-third course in Laboratory Psychology.

Students beginning Philosophy must register for 1, 9, or 30. Those desiring only a one-third course in Philosophy must register for 1 or 30. For Courses 10, 20, and 36, the prerequisites are either Courses 1, 2, and 3, or Course 9. For 33, 12, and 13 the prerequisites are 1, 2, and 3. For Course