

Missing: School of
Applied Math
School of Pure Mathematics
BULLETIN

OF
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CATALOGUE

1905-1906

MAIN UNIVERSITY
AUSTIN
DEPARTMENT OF MEDICINE
GALVESTON



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

1905-06

EMILY MAVERICK, *Student Assistant in Spanish.*
 WILLIAM MEACHUM POWELL, *Student Assistant in French.*
 ALBERT DAKE ROBERTSON, *Student Assistant in History.*
 WILLIAM EDMUND THOMAS, *Student Assistant in Geology.*
 JOHN GAILLARD WEBB, *Student Assistant in Physics.*
 CLAUDE OCTAVUS SMITH, *Laboratory Assistant in Botany.*

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CONDITIONS OF ADMISSION.

See page 24.

REQUIREMENTS FOR DEGREES.

In the Department of Literature, Science, and Arts, two degrees are offered: Bachelor of Arts (B. A.) and Master of Arts (M. A.).

No honorary degrees will be conferred by The University of Texas.

Degrees will be conferred publicly on Commencement Day.

No degree will be conferred without a residence of at least one year at the University.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS.

An application must be filed at the opening of the session in which the degree is sought.

To attain the degree of Bachelor of Arts the candidate must satisfactorily complete twenty courses or their equivalent, with an average grade of at least C during his Senior Year, if he is to graduate in 1906 or 1907, and with the same average grade during his Junior and Senior Years, if he is to graduate thereafter. In striking an average, one A and two D's, or one B and one D, will average C (see note on page 47). Some of these courses are prescribed, some are limited electives, and some are free electives.

G
year courses

1. Prescribed Courses.

Freshman Year.

- English 1, 1 course.
- Mathematics 1, 1 course.
- A Foreign Language, 1 course.

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A Science, or a second Foreign Language, or History, 1 or 1 1-3 courses.

Physical Culture.

Two foreign languages may not be begun by regular Freshmen.

Only the following courses are open to regular Freshmen: Botany 1 and 7; Chemistry 1; English 1; Geology A and 1; Greek AB and 1; History 1 and 2; Latin 1 and 2; Mathematics 1 and 2; Oratory 7; Physics 1; French, German, and Spanish A and 1; Zoology 1 and 9.

Sophomore Year.

English 2 or 3 or 4, 1 course.

A Foreign Language, 1 course. (If a modern language was begun in the Freshman year, it must be continued here.)

A Science, 1 course (if not completed in the Freshman year).

2. Limited Electives.

The candidate must elect:

(a) Three numbered courses in Foreign Language (at least two in one language).

(b) One course in a Natural Science requiring laboratory work.

(c) One course in Political Science (not compulsory for women).

(d) A one-third course in Philosophy.

(e) Five advanced courses, which may be taken in one school or in several schools. An advanced course is one (a) which is elected in any school after the completion of two numbered courses in that school (except that one previous course is sufficient in the school of Philosophy), and (b) which no student is admitted below the rank of a Junior, un-

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less he has previously had two numbered courses in the subject (except that one previous course is sufficient in the school of Philosophy).*

No course selected to remove an entrance condition or to satisfy a Freshman requirement may be taken in the Senior year.

3. Free Electives.

The remainder of the twenty required courses may be freely elected from among the courses offered in the Academic Department, and, as set forth below, in the Law and Engineering Departments; provided that, of the twenty courses presented for this degree, four and no more may be taken outside of the Academic Department.

Academic students who intend to enter the Law Department may, during their Junior and Senior years, substitute for four free electives the Law work of the Junior year in the Law Department, and count the same towards their Academic degrees; provided that little, if any, more than one-half of the Junior Law work may be carried and counted in either year.

Academic students who do not intend to enter the Law Department may, during their Junior and Senior years, substitute for three of their free electives such courses in the Law Department as the Deans of that and of the Academic Department may approve, and count the same towards their Academic degrees; provided that not more than the equivalent of two full Academic courses may be thus taken and counted in either year.

Academic students may carry and count the following courses of the Engineering Department: Civil Engineering

*This requirement will be made of all applicants for the new B. A. degree independent of the time of their admission.

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SCHOOL OF PURE MATHEMATICS.

MILTON BROCKET PORTER, PH. D., *Professor of Pure Mathematics.*

HARRY YANDELL BENEDICT, PH. D., *Associate Professor of Mathematics and Astronomy.*

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

FLORENCE P. LEWIS,* M. A., *Tutor in Pure Mathematics.*

MARY E. DECHERD, M. A., *Tutor in Pure Mathematics.*

JOHN W. CALHOUN, B. A., *Tutor in Pure Mathematics.*

FRANZ JOSEPH DOHMEN, PH. D., *Honorary Lecturer in Mathematics.*

Mathematics 1 or 2 is required for all Academic degrees.

The attention of undergraduate students of Mathematics is called to the courses in the School of Physics and in the Department of Engineering.

This School will hesitate to recommend for high-school positions in Mathematics persons who have not had at least three full courses in the subject.

For Undergraduates.

1. *Introductory Mathematics (full course).* 3.

Fall Term: Solid Geometry.

Winter Term: Plane Trigonometry.

Spring Term: Algebra with Introduction to Analytical Geometry.

Owing to the number of students in this course it is divided into several sections, meeting at various hours. Although under different instructors, each section covers practically the same ground.

Professor PORTER, Mr. RICE, Miss DECHERD, and Mr. CALHOUN.

*Absent on leave during the session of 1905-1906.

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MATHEMATICS:

2. *Introductory Mathematics for Technical Students (full course).* 3.

Fall Term: Plane Trigonometry.

Winter Term: Algebra and Analytic Geometry.

Spring Term: Solid Geometry.

Associate Professor BENEDICT and Mr. RICE.

NOTE.—Mathematics 1 and 2 will not both count if taken by the same student.

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

This course should be taken in the second year by all who intend to go on in Mathematics, and particularly by students of Engineering and of Physics. It will deal largely with the mechanism of the calculus as a practical tool, and will include a large amount of problem-solving.

Professor PORTER and Associate Professor BENEDICT.

4. *Analytical Geometry (two-thirds course).* Fall and Winter Terms, 3.

Mathematics 1 or Mathematics 2 is a prerequisite for this course, which will deal with the classic topics of plane and solid geometry.

Professor PORTER, Mr. RICE, Miss DECHERD.

5. *Analytical Geometry (one-third course).* Spring Term, 3.

This course, a continuation of 4, will include some of the modern methods of abridged notation.

Mr. RICE.

6. *Algebra (full course).* 3.

This course, which is open to anyone who has completed Mathematics 1 or Mathematics 2, will treat of the elementary

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MATHEMATICS:

Theory of Equations, Determinants, Symmetric Functions,
Theory of Polynomials, etc.

Mr. RICE

7. *Popular Astronomy (two-thirds course).*

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

Mathematics 1 or Mathematics 2 is prerequisite, but the mathematical side of astronomy will not be especially stressed.

Associate Professor BENEDICT

8. *Spherical Trigonometry and Astronomy (one-third course).*
Spring Term, 3.

This course will include the applications of spherical trigonometry to various practical problems in astronomy, navigation, and geodesy. Especial attention will be paid to the theoretical determination of time, latitude, and azimuth, and to the use of the American Ephemeris and Nautical Almanac. Mathematics 1 or Mathematics 2 is a prerequisite.

Associate Professor BENEDICT

9. *The Teaching of Elementary Mathematics (one-third course).*
Spring Term, 3.

This course is intended for those wishing to become teachers of Mathematics. There will be given a discussion of the underlying principles and fundamental concepts of the subject showing the bearing of such principles and concepts on correct methods of teaching. A practical application of these discussions will be made to public-school work. It is hoped that this course will be of benefit to prospective teachers and superintendents. Special attention will be given to the teaching of Mathematics in secondary schools. This course will be open to those who have had Mathematics 1 or Mathematics 2.

Mr. RICE

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MATHEMATICS:

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.

Dr. DOHMEN.

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.

Associate Professor BENEDICT.

For Graduates.

13. *Advanced Mathematics.*

Each year two or more courses of a somewhat advanced nature are given for the benefit of students making Mathe-