

THE UNIVERSITY OF WISCONSIN



CATALOG

1925-26



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U. Wisc. 1925-26

COLLEGE OF LETTERS AND SCIENCE

149

FOR GRADUATES

200. SEMINARY IN JOURNALISM. Yr; 2 cr. Subject for 1925-26; The relation of the press to public opinion. Mr. Bleyer.

LATIN

See Classics, page 108.

MATHEMATICS

PROFESSORS SKINNER, SLICHTER, VAN VLECK (Chairman)
ASSOCIATE PROFESSORS DOWLING, DRESDEN, HART, MARCH, WEAVER
ASSISTANT PROFESSORS BABCOCK, INGRAHAM
INSTRUCTORS ALLEN, BUNYAN, DOOLE, JENSEN, KELLER, MICKELSON, MILLER, PARKINSON, POLLARD, WAIT
ASSISTANTS ERICKSON, HARTUNG
FELLOW WALL; SCHOLAR HEINEMAN

In this department, Math. 1 to 7b are planned to give a working knowledge of elementary mathematics. Math. 7a and 7b are required of students in the Course in Commerce, Math. 51 to 55 are required of students in engineering, and Math. 71 is required of students in agriculture. Students who elect the minimum amount of mathematics in fulfillment of the optional requirement for the degree of Bachelor of Arts may choose eight credits from any of the elementary courses except 7a and 71.

MAJOR: 21 credits which shall consist of Math. 5, 6, 112 or 113, and other courses numbered 100 or above, with the exception of Math. 136, 137, 238. Students entering the junior class with advanced standing from other courses numbered 100 or above, with the exception of Math. 136, 137, mathematics in four semesters should previously have completed the equivalent of Math. 5. The requirements in mathematics as a major or minor subject for the teachers' certificate are given under the School of Education on page 190.

HIGHER DEGREES: The special requirements for the degree of Master of Arts or Master of Science in mathematics are a thesis and one year of graduate courses pursued in residence with an average grade of "good," preceded by an amount of undergraduate work substantially equivalent to that required for an undergraduate major in mathematics as outlined above.

CLUBS. The Mathematical Club, for instructors and graduates, meets twice monthly; its object is to follow important recent developments in mathematics. The Junior Mathematical Club, open to all students interested in the subject, also meets twice a month.

FOR UNDERGRADUATES, COLLEGE OF LETTERS AND SCIENCE

1. ALGEBRA. I, II; 4 cr. For students presenting one unit of algebra for entrance. Prerequisite to all other courses except 2, 7a, and 7b. Mr. Skinner and staff.

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C

CONSIDER

Journalism 2 or equivalent

Open only to juniors and

Open only to juniors and

Prerequisite: English

II; 2 cr. Prerequisite: ...

... Yr; 2 cr. Read-periodicals. Prerequisites: ...

... reading and discussion of ...

... MAGAZINES. I; 2 cr.

... (Applied Arts 50-51). I,

GRADUATES

Open to seniors and graduates.

Yr; 2 cr. Prerequisite:

Open to seniors and graduates.

Open only to seniors

Open only to seniors and

Open to seniors who have done ...

Open to seniors and graduates.

... from the College of ...

U. Wisc. 1925-26

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THE UNIVERSITY OF WISCONSIN

2. TRIGONOMETRY. I, II; 4 cr. Prerequisite to all other courses except 1, 7a, 7b, and 24. Mr. Skinner and staff.
3. ANALYTIC GEOMETRY. I; 3 cr. Prerequisite: Math. 2. Recommended to students presenting one and one-half units of algebra for admission and who have taken or are taking Math. 2. Miss Allen, Mr. Bunyan, Mr. Miller.
4. ANALYTIC GEOMETRY. II; 4 cr. Prerequisite: Math. 2. Miss Allen, Mr. Bunyan, Mr. Dresden, Mr. Miller.
5. CALCULUS. Yr; 3 cr. Prerequisite: Math. 3 or 4, which can, however, be taken simultaneously with Math. 5. Begins each semester. Students who intend to specialize in mathematics or who desire calculus for application to science are advised to take Math. 5 in the sophomore year. Mr. Dowling, Mr. Dresden, Mr. Ingraham, Mr. Miller.
6. DETERMINANTS AND ANALYTIC GEOMETRY OF THREE DIMENSIONS, I; 3 cr. Prerequisite: Math. 3 or 4. Mr. Dresden.
- 7a. COMMERCE ALGEBRA. I, II; 3 cr. A course in algebra briefer than Math. 1; required of students in the Course in Commerce and open only to students in special courses. Mr. Skinner and staff.
- 7b. THEORY OF INVESTMENT. I, II; 3 cr. Prerequisite: Math. 1, 7a, or 51. Mr. Skinner and staff.
24. THEORY OF LIFE INSURANCE. Yr; 2 cr. Prerequisite: Math. 7b or its equivalent. Mr. Dowling.
90. THE TEACHING OF MATHEMATICS. I; 2 cr. Open to seniors who are preparing to teach mathematics either as major or minor subject. Mr. Hart.
91. THE CONTENT OF SECONDARY MATHEMATICS. II; 2 cr. Admission to course restricted to students enrolled in the School of Education. Mr. Hart.
100. THESIS COURSE. Yr; 2 cr. Mr. Dresden.

FOR UNDERGRADUATES, COLLEGE OF ENGINEERING

50. SUBFRESHMAN ALGEBRA. I; no cr. For students who fail to pass the examination for admission to Math. 51. Mr. Babcock and staff.
51. ELEMENTARY MATHEMATICAL ANALYSIS. I, II; 5 cr. Required of freshmen in engineering. Mr. March, Mr. Weaver, and staff.
52. ELEMENTARY MATHEMATICAL ANALYSIS. I, II; 5 cr. A continuation of Math. 51. Required of freshmen in engineering. Mr. March, Mr. Weaver, and staff.
54. DIFFERENTIAL AND INTEGRAL CALCULUS. I, II; 4 cr. Required of all sophomores in engineering. Mr. March, Mr. Weaver, and staff.
55. CALCULUS. I, II; 4 cr. Continuation of Math. 54. Required of sophomores in engineering. Mr. March, Mr. Weaver, and staff.

COLLEGE OF ENGINEERING

FOR UNDERGRADUATES

71. MATHEMATICS FOR ARCHITECTURE AND CIVIL ENGINEERING. Mr. March and staff.

FOR UNDERGRADUATES

Math. 5 or 55 is prerequisite for Math. 125, 136, 137.

110. HIGHER MATHEMATICS. For seniors, and graduate students.
111. ADVANCED CALCULUS. For students in mathematics.
112. DIFFERENTIAL EQUATIONS. For students in mathematics.
113. THEORETICAL MECHANICS. For students in engineering.
114. MODERN ANALYTIC GEOMETRY. For students in engineering.
115. PROJECTIVE GEOMETRY. Mr. Doering.
116. HIGHER ANALYSIS. Mr. March.
118. THE THEORY OF PROBABILITY. 2 cr. Mr. Slichter.
119. DIFFERENTIAL GEOMETRY. Mr. Skinner.
125. THEORY OF EQUATIONS.
136. THE MATHEMATICAL THEORY OF STATISTICS. algebra, elementary consent of the institution of statistics are departments of theoretical included. Can not major in mathematics.
137. THE MATHEMATICAL THEORY OF STATISTICS. 136, or consent of curve fitting, correct a certain amount the minimum requirement.

These courses are for the students, other than those announced.

COLLEGE OF LETTERS AND SCIENCE

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FOR UNDERGRADUATES, COLLEGE OF AGRICULTURE

71. MATHEMATICS FOR AGRICULTURAL STUDENTS. II; 4 cr. Mr. Babcock and staff.

FOR UNDERGRADUATES AND GRADUATES

Math. 5 or 55 is prerequisite to all courses in this group except 115, 125, 136, 137.

110. HIGHER MATHEMATICS FOR ENGINEERS. Yr; 3 cr. Elective for juniors, seniors, and graduate students. Mr. Babcock.
111. ADVANCED CALCULUS. I; 3 cr. Mr. Skinner.
112. DIFFERENTIAL EQUATIONS. I, II; 3 cr. Primarily a working course for students in mathematics and physics. Mr. Van Vleck.
113. THEORETICAL MECHANICS. Yr; 3 cr. Mr. Slichter.
114. MODERN ANALYTIC GEOMETRY. II; 3 cr. Given 1926-27 and in alternate years. Mr. Dowling.
115. PROJECTIVE GEOMETRY. II; 3 cr. Mr. Dowling.
116. HIGHER ANALYSIS. Yr; 3 cr. Given 1926-27 and in alternate years. Mr. March.
118. THE THEORY OF PROBABILITIES AND METHOD OF LEAST SQUARES. II; 2 cr. Mr. Slichter.
119. DIFFERENTIAL GEOMETRY. II; 3 cr. Given 1925-26 and in alternate years. Mr. Skinner.
125. THEORY OF EQUATIONS. II; 3 cr. Mr. Dresden.
136. THE MATHEMATICS OF STATISTICS. II; 3 cr. Prerequisite: College algebra, elementary statistics, a knowledge of logarithms, and the consent of the instructor. Parts of calculus necessary to the theory of statistics are developed, and the theory of probability and other portions of theoretical mathematics necessary for statistical work are included. Can not be counted toward the minimum requirement for a major in mathematics. Mr. Ingraham.
137. THE MATHEMATICS OF STATISTICS. I; 4 cr. Prerequisite: Math. 136, or consent of instructor. A course in probability, interpolation, curve fitting, correlation, dispersion, and graphical calculation, including a certain amount of laboratory work. Can not be counted toward the minimum requirement for a major in mathematics. Mr. Ingraham.

FOR GRADUATES

These courses are varied from year to year according to the needs of the students, other subjects being introduced in addition to those here announced.

N

courses except 1,

2. Recommended
criteria for admission
Miss Allen, Mr. Bunyan,

2. Miss Allen,

which can, however,
semester. Students
the calculus for ap-
sophomore year.
er.

DIMENSIONS, I; 3

criteria briefer than
commerce and open
1 staff.

Math. 1, 7a, or 51.

Math. 7b or its

seniors who are
not subject. Mr.

Admission to
Education. Mr.

ENDING

fail to pass the
and staff.

Required of
and staff.

A continua-
ing. Mr. March,

Required of
major, and staff.

Required of sopho-
staff.