

MATHEMATICS.

Prescribed.

Note.—All the subjects in the Academic Department must have been satisfactorily completed before these are begun; and the successful completion of every term's work is a prerequisite for the following term's work.

1-2. *Plane and Solid Analytic Geometry.*

Text-book: Wentworth, *Analytic Geometry.*

Prescribed in all courses in the Freshman Class for both terms.

Arts: Two recitations per week, counts 2 each term, total 4.

Science: Four recitations per week, counts 4 each term, total 8.

3-4. *Differential and Integral Calculus.*

Text-book: Osborne, *Differential and Integral Calculus.*

Prescribed in all courses in the Sophomore Class except in Science II.

Arts I. and II.: Two recitations per week for one term, counts 2.

Arts III.: Two recitations per week for two terms, counts two each term, total 4.

Science I. and III.: Four recitations per week for two terms, counts 4 each term, total 8.

Elective.

Note.—All prescribed work must be satisfactorily completed before any elective may be taken.

3-4. Elective in Arts I., II., III., and in Science II., in the Junior and Senior Classes.

Three recitations per week for two terms, counts 3 each term, total 6.

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Note.—All the subjects in the Academic Department must have been satisfactorily completed before these are begun; and the successful completion of every term's work is a prerequisite for the following term's work. All prescribed work must be satisfactorily completed before any elective may be taken.

1-2. Plane and Solid Analytic Geometry. Text-book: Wentworth, *Analytic Geometry.* C

Prescribed: } Arts Fresh.; two terms, two hours a week, counts 4.
 } Science, Fresh.; two terms, four hours a week, counts 8.

3-4. Differential and Integral Calculus. Text-book: Osborne, *Differential and Integral Calculus.*

Prescribed: } Arts I., II., Soph.; one term, two hours a week, counts 2.
 } Arts III., Soph.; two terms, two hours a week, counts 4.
 } Science I., III., Soph.; two terms, four hours a week, counts 8.

Elective: } Arts I., II., III., Jr. and Sr., } two terms, three hours
 } Science II., Jr. and Sr., } a week, counts 6.

5. Arithmetic. Text-books: Tannery, *Leçons d'Arithmétique*; Fine, *College Algebra.* Requires a reading knowledge of French.

Elective: } Arts, Jr. and Sr., }
 } Science, Jr. and Sr., } Fall term, two hours a week, counts 2.

6. History of Mathematics. Lectures: A reading knowledge of French and German is desirable.

Elective: } Arts, Jr. and Sr., }
 } Science, Jr. and Sr., } Spring term, two hours a week, counts 2.

7-8. Advanced Differential and Integral Calculus. Text-books: Williamson, *Differential Calculus* and *Integral Calculus.*

Prerequisite: **3-4**, as given in Science I., or its equivalent.

Elective: } Sci. I., III., Junior, }
 } Arts and Sci., Sr., } two terms, three hours a week, counts 6.

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9. Ordinary Differential Equations. Text-book: Murray, *Differential Equations.*

Prerequisite: **3-4**, as given in Science I., or its equivalent.

Elective: } Sci. I., III., Junior, }
 } Arts and Sci., Sr., } one term, three hours a week, counts 3.

10. Vector Analysis. Text-book: Gibbs, *Vector Analysis*.

Prerequisite: **3-4**, as given in Science I., or its equivalent.

Elective: { Sci. I., III., Junior, } one term, three hours a week, counts 3.
{ Arts and Sci., Sr., }

11. Differential Geometry. Text-book: Kommerell and Kommerell, *Theorie der Raumkurven und Flächen*.

Prerequisite **9** and a reading knowledge of German.

Elective: Sci. I., III., Senior; Fall term, three hours a week, counts 3.

12. Partial Differential Equations. Text-books: Murray, *Differential Equations*; Byerley, *Fourier's Series and Spherical Harmonics*.

Prerequisite **9** and **11**.

Elective: Sci. I., III., Senior; Spring term, three hours a week, counts 3.

13. Theory of Functions. Text-book: Harkness and Morley, *Theory of Functions*.

Prerequisite: **3-4**, as given in Science I., or its equivalent.

Elective: { Sci. I., III., Junior, } one term, three hours a week, counts 3.
{ Arts and Sci., Sr., }

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