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NOTES ET DOCUMENTS

Cours universitaires.

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ÉTATS-UNIS D'AMÉRIQUE

University of Chicago. — Courses which continue for more than one quarter are indicated with Roman numerals, as I, II, III, IV. Prof. E. H. MOORE : Hermitian matrices in General Analysis, I, II, III, IV, V; Vectors, matrices, and quaternions. — Prof. L. E. DICKSON : Hypercomplex numbers, I, II; Theory of equations. — Prof. H. E. SLAUGHT : Differential equations; Definite integrals; Elliptic integrals; Advanced calculus. — Prof. G. A. BLISS : Theory of functions of a real variable; Calculus of variations; Integral equations; Advanced calculus. — Prof. E. J. WILCZYNSKI : Seminar on Geometry; Metric differential geometry; Solid analytic geometry. — Prof. F. R. MOULTON : Modern theories of analytic differential equations, I, II; Advanced ballistics, I, II. — Prof. W. D. MACMILLAN : Analytic mechanics, I, II; Celestial mechanics; Dynamics of rigid bodies; Theory of the potential. — Prof. A. C. LUNN : Vector analysis; Applications of vector analysis in the theory of electromagnetism; Thermodynamics; Vector analysis in Riemann-Einstein space. — Prof. J. W. A. YOUNG : Selected topics in mathematics. — Dr. MAYME I. LOGSDON : Theory of functions of a complex variable; Introduction to higher algebra. Courses in research are also offered by Professor Moore in Foundations of mathematics and in General Analysis, by Professor Bliss in Analysis, by Professor Dickson in Algebra and Theory of Numbers, by Professor Wilczynski in Geometry, and by Professor Lunn in Applied mathematics.

Columbia University; (New York). — Prof. T. S. FISKE : Differential equations. — Prof. F. N. COLE : Theory of groups (first term). — Prof. D. E. SMITH : History of mathematics; Practicum in the history of mathematics. — Prof. C. J. KEYSER : Modern theories in geometry (first term); Introduction to mathematical philosophy (first term). — Prof. Edward KASNER : Einstein's theory of gravitation. — Prof. W. B. FITE : Infinite series (second term). — Prof. J. F. RITT : Elliptic functions (first term); Analytic theory of numbers (second term). — Dr. G. A. PFEIFFER : Topics in projective geometry (second term). — Dr. Jesse DOUGLAS : Topics in higher geometry (second term).

Cornell University; (Ithaca). — Prof. J. H. TANNER : Mathematics of finance. — Prof. Virgil SNYDER : Algebraic geometry. — Prof. F. R. Sharpe :

Hydrodynamics and Elasticity. — By Professor Arthur RANUM : Line geometry. — Prof. W. B. CARVER : Advanced calculus. — Prof. D. C. GILLESPIE : Theory of functions of a complex variable. — Prof. W. A. HURWITZ : Differential equations of mathematical physics. — Prof. C. F. CRAIG : Projective geometry. — Prof. F. W. OWENS : Advanced analytic geometry. — Prof. H. M. MORSE : Analysis situs (first term); The restricted problem of three bodies (second term); Elementary differential equations. — Dr. G. M. ROBISON : Calculus of variations (first term); Infinite series (second term). — Mr. D. S. MORSE : Modern higher algebra.

Harvard University; (*Cambridge, Mass.*). — Prof. W. F. OSGOOD : Advanced calculus; Theory of functions (second course). — Prof. J. L. COOLIDGE : Line geometry (first half-year); Probability (second half-year); Kinematics (second half-year). — Prof. G. D. BIRKHOFF : Space, time, and relativity (first half-year); Advanced dynamics and Quantum theory (second half-year). — Prof. E. V. HUNTINGTON : The fundamental concepts of mathematics (first half-year). — Prof. O. D. KELLOGG : Dynamics (second course); Introduction to the theory of potential functions and Laplace's equation (first half-year); Theory of point sets (second half-year). — Prof. W. C. GRAUSTEIN : Introduction to modern geometry; Projective geometry (first half-year); Geometrical transformations (second half-year). — Dr. J. L. WALSH : The partial differential equations of mathematical Physics (second half-year). — Dr. Philip FRANKLIN : The analytical theory of heat and problems in elastic vibrations (second half-year); Relativity, advanced course (second half-year). There will also be a seminary in Analysis conducted by Dr. Walsh and Dr. Franklin, and the following courses of research : Topics in the theory of functions, Professor Osgood; Topics in Postulate-Theory, Professor Huntington; Topics in geometry, Professor Coolidge; Topics in the theory of potential functions, Professor Kellogg; Topics in the theory of differential equations, Professor Birkhoff; Topics in geometry, Professor Graustein.

University of Illinois; (*Urbana*). — Prof. E. J. TOWNSEND : Functions of a complex variable; Differential equations and advanced calculus. — Prof. C. A. MILLER : Theory of groups; Theory of equations and determinants (first semester). — Prof. J. B. SHAW : Vector methods. — Prof. A. B. COBLE : Projective geometry. — Prof. R. D. CARMICHAEL : Linear difference equations. — Prof. A. EMCH : Algebraic surfaces; Constructive and projective geometry (second semester). — Prof. A. R. CRATHORNE : Statistics (first semester); Acturial theory. — Prof. G. E. WAHLIN : Calculus of variations (second semester). — Prof. A. J. KEMPNER : Theory of numbers. — Prof. H. BLUMBERG : Graphical and numerical methods (second semester); Introduction to modern mathematics. — Prof. E. B. LYTLE : Teacher's course (first semester); Fundamental concepts of mathematics (second semester).

Massachusetts Institute of Technology; (*Cambridge, Mass.*). — Prof. F. S. WOODS : Advanced calculus and differential equations; Higher geometry, — Prof. C. L. E. MOORE : Theoretical Aeronautics; Rigid dynamics. — By Professor H. B. PHILLIPS : Thermodynamics; Statistical Mechanics; Quantum Theory; Theory of the gyroscope. — Prof. Joseph LIPKA : Analytical mechanics; Mathematical laboratory. — Prof. F. L. HITCHCOCK : Application of mathematics to Chemistry. — By Dr. George RUT-

LEDGE : Modern algebra; Theory of functions. — Dr. J. S. TAYLOR : Mathematics of investment. — Dr. N. WIENER : Fourier's series and integral equations. — Dr. S. D. ZELDIN : Vector analysis.

University of Pennsylvania; (*Philadelphia*). — Prof. E. S. CRAWLEY : Higher plane curves. — Prof. G. H. HALLETT : Infinite series and products (first term); The theory of functions of a complex variable (second term). — Prof. O. E. GLENN : The theory of invariants. — Prof. F. H. SAFFORD : The mathematical theory of elasticity. — Prof. G. G. Chambers : Synthetic projective geometry. — Prof. H. H. MITCHELL : The analytic theory of numbers. — Prof. M. J. BABB : Introduction to the theory of numbers. — Professor F. W. BEAL : Linear differential equations of the second order (first term); Advanced calculus (second term). — Prof. J. R. KLINE : Point-set theory (first term) : Integral equations (second term).

Princeton University. — Prof. J. H. M. WEDDERBURN : Complex variables. — Prof. L. P. EISENHART : Differential geometry. — Dr. C. E. HILLE : Advanced course in analysis. — Dr. C. C. MACDUFFEE : Algebraic invariants. — Dr. B. KERKJARTO : Analysis situs. — Prof. O. VEULEN : Seminar on mathematical physics.

Yale University (*New Haven, Conn.*); Prof. J. K. WHITTEMORE : Differential geometry; Special topics in advanced differential geometry. — Prof. W. A. WILSON : Functions of a real variable; Special topics in the theory of aggregates. — Prof. E. J. MILES : Advanced calculus of variations, — Prof. E. W. BROWN : Celestial mechanics. — Prof. J. I. TRACEY : Higher algebra. — Prof. James PIERPONT : Non-Euclidean geometry and Einstein's theory. — Mr. MIKESH : Teachers' course.

University of Wisconsin (First Semester). — Prof. E. B. SKINNER : Advanced calculus; Theory of numbers. — Prof. H. W. MARCH : Harmonic analysis. — Prof. E. B. VAN VLECK : Differential equations; Theory of analytic functions; Integral equations. — Prof. A. DRESDEN : Calculus of variations. Prof. C. S. SLICHTER : Mechanics. — Prof. L. W. DOWLING : Projective geometry.

FRANCE

Paris; Faculté des Sciences. (Ouverture des cours le 5 novembre 1923). — C. GUICHARD : Géométrie supérieure. Les travaux pratiques afférents au certificat de géométrie supérieure seront dirigés par M. THYBAUT. — GOURSAT : Calcul différentiel et intégral et éléments de la théorie des fonctions analytiques. M. JULIA fera des conférences en vue du certificat de calcul différentiel et intégral. — DRACH : Applications géométriques du calcul différentiel (1^{er} semestre); la déformation des surfaces et les problèmes connexes (2^e semestre). — MONTEL : Mécanique rationnelle. Conférences de mécanique rationnelle par M. THYBAUT, en vue du certificat de mathématiques générales, et par M. CAHEN. — VESSIOT : Des transformations infinitésimales et de leurs applications à la théorie des équations aux dérivées partielles. — DENJOY : Mathématiques générales préparatoires aux sciences physiques, avec conférences et travaux pratiques dirigés par MM. THYBAUT et CAHEN. — BOREL : Théorie de l'élasticité. — G. KÖENIGS : Principes généraux de la mécanique appliquée et des moteurs soit hydrauliques, soit thermiques. Travaux pratiques au laboratoire de mécanique