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Cours universitaires<sup>1</sup>.

Semestre d'hiver 1904-1905.

## ÉTATS-UNIS D'AMÉRIQUE

*Cours annoncés pour l'année universitaire 1904-1905.*

**University of California** (Berkeley, Cal.) — By Professor I. STRINGHAM: Theory of functions of a complex variable, three hours; Logic of mathematics, three hours; Seminar, two hours. — By Professor G. C. EDWARDS: Differential equations, three hours. — By Professor M. W. HASKELL: Elliptic and other special functions (first half year), three hours; Analytic projective geometry, three hours; Quaternions (second half year), three hours. — By Professor C. A. NOBLE; Theory of equations, two hours; Advanced analytic geometry (first half year), three hours; Differential geometry, three hours. — By Mr. A. W. WHITNEY: Theory of probabilities, one hour. — By Dr. D. N. LEHMER: Synthetic geometry (first half year), three hours; Theory of numbers, three hours. — By Dr. T. M. PUTNAM: Partial differential equations (first half year); two hours; Theory of groups (second half year), three hours.

**Clark University** (Worcester, Mass.). — By Professor W. E. STORY: Advanced analytic geometry, five hours; Algebraic invariants (first half year), two hours; Finite differences (second half year), two hours; Seminar. — By Professor H. TABER: Theory of functions and elliptic functions, five hours; Transformation groups (second half year), two hours; Seminar. — By Mr. J. DE PEROTT: Theory of numbers (first half year), two hours; Algebraic substitutions and their application to the theory of equations (second half year), two hours.

**Cornell University** (Ithaca, New-York). — By Professor L. A. WAIT: Advanced analytic geometry, three hours; Advanced differential calculus, three hours. — By Professor J. W. JONES: Algebra, three hours. — By Professor J. McMAHON: Algebraic plane curves, three hours; Theory of potential and spherical harmonics, two hours. — By Professor J.-H. TANNER: Theory of equations, two hours. —

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<sup>1</sup> Nous prions nos collègues des Universités et Ecoles techniques supérieures de bien vouloir insister auprès du Secrétariat de leur établissement pour que la liste des cours, les thèses (dissertations) et les communiqués pouvant intéresser les mathématiciens soient adressés régulièrement et dans le plus bref délai possible à M. H. FERR, Directeur de *l'Enseignement Mathématique*, 19, rue Gevray, Genève.

By Professor J. I. HUTCHINSON: Projective geometry, two hours; Theory of functions, three hours. — By Professor V. SNYDER: Elementary differential equations, two hours. — By Dr. W. B. FITE: Theory of groups, three hours; Definite integrals, two hours. — By Dr. C. N. HASKINS: Advanced differential equations, three hours; Calculus of variations, two hours. The Olivier mathematical club will hold weekly sessions.

**University of Minnesota** (Minneapolis). — By Professor J. F. DOWNEY: Advanced calculus (first semester), three hours; Curve tracing (second semester), three hours. — By Professor G. N. BAUER: Determinants and solid analytic geometry, three hours. — By Dr. J. E. MANCHESTER: Differential equations, three hours. — By Professor F. P. LEAVENWORTH: Method of least squares (first semester), three hours. — By Professor H. T. EDDY: Fourier's series and spherical harmonics (first semester), three hours; Theoretical mechanics, three hours.

**University of Nebraska** (Lincoln). — By Professor W. E. DAVIS: Number theory, Three hours (first semester); Finite differences, three hours (second semester). — By Professor CANDY: Analytic geometry, three hours; Differential equations, three hours. — By Professor MORITZ: Mathematical pedagogy, three hours. — By Mr. H. A. MORRISON: Algebra, three hours.

**University of Pennsylvania** (Philadelphia). — By Professor E. S. CRAWLEY: Advanced methods of plane analytic geometry, two hours; Theory of numbers, three hours. — By Professor G. E. FISHER: Differential equations, two hours; Theory of functions of a complex variable (first half year), three hours; Elliptic functions (second half year), three hours. — By Professor I. J. SCHWATT: Theory of functions of a real variable, three hours. — By Dr. G. HALLETT: Theory of surfaces, two hours; Theory of groups, two hours. — By Dr. B. S. EASTON: Theory of higher equations, two hours; Algebra (Netto's book will be read in German), one hour, — By Dr. F. H. SAFFORD: Fourier's series and spherical harmonics, three hours. — By Dr. L. I. NEIKIRK: The Galois theory of equations, two hours; An introduction to the theory of modular functions, two hours.

**Princeton University** (New Jersey). — By Professor H. B. FINE: Elements of the theory of functions; Theory of functions of a complex variable; Ordinary differential equations. — By Professor H. D. THOMPSON: Theory of curves and surfaces; Advanced infinitesimal geometry; Special topics in metrical geometry. — By Professor E. O. LOVETT: Partial differential equations (second semester); Lie's transformation groups and applications; Analytic

mechanics. — By Mr. A. H. WILSON: Elliptic functions. — By Dr. GILLESPIE: Theory of substitutions and of invariants. — By Dr. L. P. EISENHART: Deformation of surfaces (second semester); Congruences and complexes (second half year). — Each course is given two hours a week.

**Stanford University** (Palo Alto, San Francisco, Calif.). By Professor R. L. GREEN: Theory of equations, three hours; Modern analytic geometry, two hours. — By Professor G. A. MILLER: Elementary theory of groups, three hours; Projective geometry, two hours (first semester); Theory of numbers, two hours (second semester). — By Professor H. F. BLICHFELDT: Differential equations, three hours. — By Professor L. M. HOSKINS: Theoretical mechanics, five hours.

**Syracuse University** (New-York). — By Professor W. H. METZLER: Advanced analytic geometry (first half year), three hours; Modern geometry (second half year), three hours; Elliptic integrals and elliptic functions, three hours; General theory of functions of a complex variable, three hours. — By Professor E. D. ROE: Symmetric functions and invariants, three hours; Advanced calculus and differential equations, three hours; Analytic mechanics, three hours; Theory of equations, three hours; Analytic trigonometry (first half year), one hour; Determinants (second half year), one hour. — By Professor W. G. BULLARD: Projective geometry and higher plane curves, three hours.

**University of Virginia** (Charlottesville, Virg.). — By Professor W. H. ECHOLS: Theory of functions, three hours; Geometry, three hours. — By Professor J. M. PAGE: Differential equations, three hours; Differential geometry, three hours. By Mr. W. B. STONE: Advanced differential and integral calculus, three hours.

**University of Wisconsin** (Madison, Wisc.). — By Professor C. V. VAN VELZER: Differential equations, three hours; Theory of numbers, two hours. — By Professor C. S. SLICHTER: Theoretical mechanics, three hours; Newtonian potential function, two hours; Theoretical hydrodynamics, two hours. — By Professor E. B. SKINNER: Quaternions, three hours; Differential geometry (first semester), three hours; Theory of invariants, two hours; Theory of groups of a finite order, three hours. — By Professor L. W. DOWLING: Projective geometry, two hours; Theory of functions, two hours; Advanced projective geometry, two hours.

(Summer session). — By Professor C. S. SLICHTER: Differential equations; Analytic mechanics. — By Professor L. W. DOWLING: Invariants; Theory of functions. — Each course will be given five hours a week.



## ILES-BRITANNIQUES

**Bangor.** *University College of North Wales* (1904-1905). — Mathematics. Prof. : G. H. BRYAN; Assistant Lecturer: HAROLD HILTON. — I. *Intermediate Course*: Geometry, Algebra, Plane Trigonometry, 3 h. — II. *Final Courses*: A. Pure mathematics, ordinary course: Algebra, Trigonometry, Geometry, Differential and Integral Calculus, 3 h. — Special course: Pure coordinate Geometry, Differential and integral Calculus, Elementary Differential Equations, Solid Geometry, spherical Trigonometry, 3. — B. Applied mathematics. Ordinary course: Dynamics, statics, Plane Astronomy, 3 h. — Special course: Analytical statics, Uniplanar rigid Dynamics, Hydrostatics, Dynamics of a Particle, 3 h. — III. Honours course.

**Edinburgh.** University. — Prof. CHRYSTAL: Sen. Mathematics. — Prof. CHRYSTAL et Ch. TWEEDIE: Math. Intermediate Honours; Adv. Hon. — HORSBURGH: Math., Interim. Honours, Technical Division. — Prof. MAC GREGOR: Natural Philosophy, nat. Phil. et Applied mathem.; Honours; Thermodynamics. — Dr KNOTT: Dynamics, Applied math., Advanced science. — COPELAND A. HALM: Astronomy.

**Oxford.** University. — Mathematics, Lecture List for Michaelmas Term. begin 17 oct. 1904. — Waynflete Professor of Pure Mathematics, E. B. ELLIOTT: Theory of Numbers, 2 hours; Infinite Series and Products, 1 hour. — Savilian Professor of Astronomy, H. H. TURNER: Elementary Mathematical Astronomy, 2 hours. — Professor TURNER and H. C. PLUMMER: Practical Work. — Savilian Professor of Geometry, W. ESSON: Analytic Geometry of Plane Curves, 2 hours; Synthetic Geometry of plane Curves, 1. — Sedleian Professor of Natural Philosophy, A. E. H. LOVE: Harmonic Analysis, 3 hours. — C. E. HASELFOOT: Algebra, 2 hours. — C. LEUDESORF: Projective Geometry (elementary), 3 hours. — A. E. JOLLIFFE: Analytical Geometry, 2 hours. — J. W. RUSSELL: Differential Calculus, 2 hours. — R. F. McNEILE: Curve Tracing, 1 hour. — A. L. PEDDER: Problems in Pure Mathematics, 1 hour. — C. H. SAMPSON: Higher Solid Geometry, 2 hours — J. E. CAMPBELL: Differential Equations, 2 hours. — C. H. THOMPSON: Integral Calculus, 2 hours. — E. H. HAYES: Analytical Statics, 3 hours. — A. L. DIXON: Hydrostatics, 1 hour. — H. T. GERRANS: Tridimensional Rigid Dynamics, 2 hours. — P. J. KIRKBY: Attractions and Electrostatics, 2 hours.

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