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Cours universitaires.

ÉTATS-UNIS D'AMÉRIQUE

Cours annoncés pour l'année universitaire 1908-1909.

University of Chicago (summer quarter, June 21 to September 3, 1909).

— Prof. E. H. MOORE: General analysis, 4 h; Synthetic geometry, 4; Graphical algebra, 4; all first term. — Prof. L. E. DICKSON: Theory of numbers, 4; Solid analytic geometry, 5. — Prof. J. W. A. YOUNG: Critical review of secondary mathematics, 4; Limits and series, 4. — Prof. J. B. SHAW: Elliptic integrals and Fourier series, 4; College algebra, 5; Trigonometry, 5. — Prof. O. D. KELLOGG: Theory of fonctions of a complex variable, 4; Integral calculus, 5; Analytic geometry, 5. — Dr. A. C. LUNN: Vector analysis, 4; Differential calculus, 5. — Prof. K. LAVES: Analytic mechanics, 4. — Dr. W. D. Mac MILLAN: Introduction to celestial mechanics, 5.

Columbia University: New-York. — Prof. T. S. FISKE: Advanced calculus. Introduction to the theory of functions of a real variable, 3; Theory of functions of a complex variable, 3. — Prof. F. N. COLE: Theory of groups, 3; Theory of invariants, 3. — Prof. JAMES MACLAY: Application of the calculus to the theory of surfaces, 3. — Prof. D. E. SMITH: History of mathematics, 2. — Prof. C. J. KEYSER: General theory of assemblages, 3; Modern theories on geometry, 2. — Prof. H. B. MITCHELL: Geometrical analysis, 3. — Prof. EDWARD KASNER: Geometry of dynamical systems, 2; Contact transformations and applications, 2. — Prof. G. H. LING: Theory of numbers, 3; Modern higher algebra, 3.

Cornell University; *Ithaca, New-York*. — Prof. J. McMAHON: Vector analysis, 2; Applications of vector fields, 2; Theory of probabilities, 2. — Prof. J. H. TANNER: Teachers' course (assisted by Dr. F. W. OWENS), 3. — Prof. J. I. HUTCHINSON: Differential geometry, 3 (first term). — Prof. V. SNYDER: Algebraic curves, 3. — Prof. W. B. FITE: Theory of functions of a real variable, 2. — Dr. F. R. SHARPE: Introduction to mathematical physics, 3. — Dr. A. RANUM: Algebra, 3 (first term). — Dr. D. C. GILLESPIE: Series, 3 (first term); Linear differential equations, 3 (second term). — Dr. C. F. CRAIG: Analytic geometry, 3. — Dr. F. W. OWENS: Differential equations, 2. — Mr. J. V. MCKELVEY: Projective geometry, 3.

Harvard University, *Cambridge, Mass.* — Each course is three hours per week. — Prof. W. É. BYERLY: Introduction to modern geometry and modern algebra; Advanced calculus; Trigonometric series (with Professor Peirce). — Prof. W. F. OSGOOD: Theory of functions, I; Linear differential equations. — Prof. C. L. BOUTON: Theory of numbers (first half year); Elementary differential equations (second half year); Geometric transformations. — Prof. J. K. WHITTEMORE: Differential geometry of curves and surfaces (first half year); Properties of polynomials and invariants (second half year); Celestial mechanics (first half year). — Prof. J. L. COOLIDGE: Probability; Algebraic

plane curves. — Prof. E. V. HUNTINGTON: Fundamental concepts of mathematics (second half year). — Dr. H. N. DAVIS: Elements of mechanics. — Mr. G. C. EVANS: Vector analysis and quaternions. Courses of reading and research are offered by Professors Byerly, Osgood, Bouton, Whittemore and Coolidge. A seminary in geometry will be conducted by Professors Bouton, Whittemore and Coolidge.

Johns Hopkins University; Baltimore. — Prof. F. MORLEY: Higher geometry, 2; Theory of functions, 2 (first half year); Vector analysis, 2 (second half year). — Dr. A. COHEN: Differential equations, 2; Elementary theory of functions, 2. — Dr. A. B. COBLE: Theory of groups, 2; Theory of probabilities, 2 (first half year).

University of Illinois; Urbana, Ill. (All courses are 3 h. a. week.) — Prof. S. W. SHATTUCK: Differential equations (first semester); calculus of variations (second semester). — Prof. E. J. TOWNSEND: Theory of functions of a complete variable. — Prof. G. A. MILLER: Theory of groups (second course). — Prof. E. J. WILCZYNSKI: Projective differential geometry. — Prof. H. L. RIETZ: Theory of statistics. — Prof. C. N. HAKKINS: Fourier series; advanced calculus. — Prof. J. W. YOUNG: Theory of automorphic functions. — Dr. C. H. SISAM: Theorie of invariants and higher plane curves. — Dr. A. R. CRATHORNE: Partial differential equations of physics. — Prof. YOUNG or Dr. R. L. BÖRGER: Projective geometry and linear transformations.

Indiana University; Blomington. — S. C. DAVISON: Theory of surfaces, 3; Differential equations, 3 (*a*, *w*). — D. A. ROTHROCK: Theory of functions, 3 (*a*, *w*); Advanced calculus, 3; History of mathematics, 3 (*s*). — U. S. HANNA: Invariants, 2. — C. HASEMAN: Applications of partial differential equations, 3 (*a* = autumn, *w* = winter, *s* = spring.)

University of Pennsylvania; Philadelphia. — E. S. CRAWLEY: Solid analytic geometry, 2; Higher plane curves, 3; Mathematics of insurance, 2. — G. E. FISHER: Advanced calculus, 2; Calculus of variations, 2. — I. J. SCHWATT: Infinite series and products, 2; Definite integrals, 3. — G. H. HALLETT: Modern higher algebra, 3 (first half year); Galois theory of equations, 3 (second half year); Theory of groups of a finite order, 3; Lie's theory of continuous groups, 3 (first half year). — F. H. SAFFORD: Mathematical theory of precision of measurements, 3 (first half year); Curvilinear coördinates, 3 (second half year). — O. E. GLENN: Invariants and covariants, 3.

Princeton University; N. J. (Each course is 3 h. per week.) — Prof. H. B. FINE: Advanced algebra (first term). — Prof. H. D. THOMPSON: Coordinate geometry. — Prof. J. H. JEANS: Mechanics and kinematics. — Prof. L. G. EISENHART: Differential geometry. — Prof. O. VEBLEN: Projective geometry, I; Projective geometry, II; Theory of functions of real variables. — Prof. G. D. BIRKHOFF: Differential equations; Advanced calculus. — Dr. E. SWIFT: Theory of functions of a complex variable.

Yale University; New Haven, Conn. — Prof. J. PIERPONT: Theory of functions of a complex variable, 2; Advanced theory of functions, 2; Elliptic functions, 2. — Prof. P. F. SMITH: Transformations of space, 2; Differential geometry, 2. — Prof. E. W. BROWN: Mechanics, 2; Advanced calculus, 3; Hydromechanics, 2. — Prof. H. E. HAWKES: Projective geometry, 2; Advanced algebra, 2. — Dr. W. A. GRANVILLE: Elementary differential geo-

metry, 2. — Dr. W. R. LONGLEY: Differential equations, 2. — Dr. G. M. CONWELL: Elementary differential equations, 1; Foundations of geometry, 2; Invariants, 2. — Dr. E. G. BILL: Integral equations, 1; Analytic geometry, 2.

ITALIE ¹

Année universitaire 1909-1910.

Bologna; Università. — ARZELA: Calcolo delle variazioni; equazioni integrali; serie di Laplace, 3. — DONATI: Termodinamica; teoria cinetica dei gas; magneto-ottica ed elettro-ottica, 3. — PINCHERLE: Funzioni ellittiche; integrali di differenziali algebrici; funzioni abeliane, 3.

Catania; Università. — DE FRANCHIS: Geometria sopra le superficie algebriche, 3. — LAURICELLA: Equazioni integrali; sviluppi in serie di funzioni fondamentali; vibrazioni delle corde e delle membrane elastiche, 4 ¹/₂. — PENNACCHIETTI: Applicazione della teoria delle funzioni ellittiche alla meccanica, 4 ¹/₂. — SEVERINI: Geometria differenziale.

Firenze; Istituto di Studi superiori. — BOGGIO: Applicazioni alla Fisica matematica delle equazioni integrali, 3.

Genova; Università. — LEVI: Equazioni differenziali ed integrali, 4. — LORIA: Teoria delle trasformazioni geometriche, 3. — TEDONE: Problemi di equilibrio elastico, 3.

Napoli; Università. — AMODEO: Storia delle matematiche da Newton a Lagrange, 3. — CAPELLI: Teoria aritmetica delle grandezze algebriche e teoria dei numeri, 3. — MARCOLONGO: Idrodinamica, 3. — MONTESANO: Teoria delle corrispondenze geometriche nello spazio, 4 ¹/₂. — PASCAL: Capitoli scelti fra quelli delle più importanti teorie analitiche, 3. — PINTO: Elettrottica, onde hertziane, 4 ¹/₂.

Padova; Università. — D'ARCAIS: Teoria delle funzioni, equazioni integrali, 4 ¹/₂. — CISOTTI: Teoria matematica dell'elasticità con applicazioni tecniche, 3. — FAVARO: La vita e le opere di Archimede, 3. — GAZZANIGA: Teoria dei numeri, 3. — LEVI-CIVITA: Equazioni della dinamica, elementi di meccanica celeste, 4 ¹/₂. — RICCI: Calcolo differenziale assoluto, teoria dell'equilibrio e del movimento dei corpi elastici, 4. — SEVERI: Gruppi continui di trasformazioni, 3. — VERONESE: Geometria iperspaziale, 3.

Palermo; Università. — BAGNERA: Funzioni automorfe, 3. — GEBBIA: Teoria della propagazione del calore, termodinamica, 4 ¹/₂. — GUCCIA: Teoria generale delle curve e delle superficie algebriche, 4 ¹/₂. — VENTURI: Forma dei pianeti e in particolare della terra con riguardo agli studi di elasticità della crosta terrestre, 3.

Pavia; Università. — ALMANSI: Teoria del potenziale, elettrostatica, magnetismo, 3. — BERZOLARI: Geometria iperspaziale, 3. — BONOLA: L'immaginario in geometria, generazione proiettiva di alcune linee e superficie, sistemi lineari di coniche e quadriche, 3. — GERBALDI: Funzioni di variabile

¹ Les cours généraux (tels que ceux d'Analyse algébrique et infinitésimale, de Géométrie analytique, projective, descriptive, Mécanique rationnelle, Géodésie) ne sont pas indiqués dans la liste.