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*Pologne.* — Maîtrise en philosophie (sciences).

*Roumanie.* — Licence ès sciences.

*Suède.* — Licence ès sciences.

*Suisse.* — 1. En vue du doctorat ès sciences mathématiques: Doctorat ès sciences mathématiques des universités romandes. Doctorat en philosophie des universités alémaniques et de l'Ecole polytechnique fédérale (avec thèse de mathématiques). Licence en mathématiques des universités de Genève, Fribourg et Neuchâtel.

2. En vue du doctorat ès sciences physiques: Doctorat ès sciences physiques des universités romandes. Doctorat en philosophie des universités alémaniques et de l'Ecole polytechnique fédérale (avec thèse de physique ou de chimie). Licence physique et chimique et licence physique et naturelle de l'Université de Genève. Licence physique de l'université de Lausanne.

3. En vue du doctorat ès sciences naturelles: Doctorat ès sciences naturelles des universités romandes. Doctorat en philosophie des universités alémaniques et de l'Ecole polytechnique fédérale (avec thèse de sciences naturelles). Licence ès sciences naturelles des universités de Genève et Neuchâtel.

*Tchéco-Slovaquie.* — Trois examens de doctorat (rigorosa).

*Yougo-Slavie.* — Diplôme de licencié des facultés de Belgrade, Skoplje et Subotica. Doctorat des Universités de Zagreb et Lubljana.

ANNEXE. — *Membres de l'association des universités américaines.* — University of California. — Catholic university of America. — University of Chicago. — Clark university. — Columbia university. — Cornell university. — Harvard university. — University of Illinois. — Indiana university. — State university of Iowa. — Johns Hopkins university. — University of Kansas. — Leland Stanford Junior university. — University of Michigan. — University of Minnesota. — University of Missouri. — University of Nebraska. — Northwestern university. — Ohio State university. — University of Pennsylvania. — Princeton university. — University of Virginia. — University of Wisconsin. — Yale university. — Berkeley, California. — Washington (district fédéral de Columbia). — Chicago Illinois. — Worcester, Massachusetts. — New York city. — Ithaca, New-York. — Cambridge, Massachusetts. — Urbana, Illinois. — Bloomington, Indiana. — Iowa city, Iowa. — Baltimore, Maryland. — Lawrence, Kansas. — Stanford university, California. — Ann Arbor, Minnesota. — Minneapolis, Minnesota. — Columbia, Missouri. — Lincoln, Nebraska. — Evanston, Illinois. — Columbus, Ohio. — Philadelphia, Pensylvania. — Princeton, New-Jersey. — Charlottesville, Virginia. — Madison, Wisconsin. — New Haven, Connecticut.

## Cours universitaires.

Année 1922-1923.

# ÉTATS-UNIS D'AMÉRIQUE

**Columbia University;** *New York.* — T. S. FISKE : Differential Equations (first term). — F. N. COLE : Algebra. — D. E. SMITH : History of Mathematica. — C. J. KEYSER : Introduction to mathematical philosophy (first term). — Logical foundations of mathematics. — E. KASNER : Einstein's

theory of gravitation. — W. B. FITE : Theory of Functions. — J. F. RITT : Functions of several complex variables (first term). — Algebraic numbers (second term). — G. A. PFEIFFER : Isoperimetric problems (second term). — J. DOUGLAS : Differential Geometry (first term).

**Cornell University;** (*Ithaca*). — J. I. HUTCHINSON : Entire functions. — V. SNYDER : Algebraic Geometry. — F. R. SHARPE : Vector analysis. — W. B. CARVER : Advanced calculus. — A. RANUM : Differential geometry. — D. C. GILLESPIE : The definite integral. — W. A. HURWITZ : Infinite series. — C. F. CRAIG : Probabilities. — P. W. OWENS : Projective Geometry. — H. M. MORSE : Einsteins theory (first term). — Dynamical systems (second term). — W. L. G. WILLIAMS : Modern higher algebra. — F. W. REED : Elementary differential Equations. — H. S. VANDIVER : Finite groups. — G. M. ROBISON : Advanced analytic geometry.

**Harvard University;** (*Cambridge, Mass.*). — W. F. OSGOOD : Differential and integral calculus (advanced course) ; Theory of Functions (introductory course). — J. L. COOLIDGE : Probability ; Algebra ; Algebraic plan curves. — E. V. HUNTINGTON : The fundamental concepts of mathematics. — O. D. KELLOGG : Dynamics (second course); Introduction to the Theory of potential functions and Laplaces equation ; Potential functions (advanced course). — G. D. BIRKHOFF : The analytic theory of heat and problems in elastic vibrations; Linear differential equations of the second order, real variables. — W. C. GRAUSTEIN : Introduction to modern geometry ; Differential geometry of curves and surfaces. — J. L. WALSH : Infinite series and products ; Theory of numbers ; Entire functions. — Ph. FRANKLIN : Elementary theory of differential equations ; Analysis situs.

**University of Chicago**. — E. H. MOORE : Vectors, matrices, and quaternions ; Matrices in general analysis. — L. E. DICKSON : Theory of numbers; Solid analytics; Theory of Equations. — H. E. SLAUGHT : Differential Equations; Elliptic integrals; Calculus. — G. A. BLISS : Definite integrals; Elliptic functions; Calculus. — F. R. MOULTON : Analytic differential equations; Advanced ballistics. — W. D. MAC MILLAN : Analytic mechanics. Celestial mechanics. — A. C. LUNN : Units and dimensions; Dynamics of continuous media; Canonical equations and quantum theory; Thermodynamics. — M.I. LOGSDON : Theory of algebraic invariants; Calculus. — J. W. A. YOUNG : Limits and series.

**University of Illinois;** (*Urbana*). — E. J. TOWNSEND : Real variables. — G. A. MILLER : Finites groups. — J. B. SHAW : Linear operators. — A. B. COBLE : Differential geometry. — R. D. CARMICHAEL : Linear differential equations in real variables. — A. EMCH : Antomorphic functions. — A. R. CRATHORNE : Theory of statistics. — A. J. KEMPNER : Modern algebra. — H. BLUMBERG : Introduction to higher mathematics.

**Johns Hopkins University;** (*Baltimore*). — F. MORLEY: Higher geometry (first term); Theory of functions (second term). — A. COHEN : Applications of calculus, differential equations, and mechanics. — L. S. HULBURT : Advanced calculus; Projective geometry and higher plane curves. — J. R. MUSSELMAN : Elementary theory of probability.

**Massachusetts Institute of Technology**. — F. S. WOODS : Advanced Calculus. — C. L. E. MOORE : Theoretical aeronautics. — H. B. PHILLIPS :

Thermodynamics. — J LIPKA : Analytical mechanics. — N. WIENER : Fourier's series and integral equations. — G. RUTLEDGE : Theory of functions. — S. D. ZELDIN : Vector analysis. — J. S. TAYLOR : Mathematics of investment.

**University of Michigan;** (*Ann Arbor*). — J. L. MARKLEY: Solid analytic Geometry (first term) ; Theory of functions of a complex variable ; Theory of functions of real variables. — J.W. GLOVER : Theory of probability (first term); Finites differences (second term); Advanced mathematical theory of interest and life contingencies. — W. B. FORD : Advanced calculus, with special reference to Fourier series and harmonic analysis ; Infinite series and products; Elements of the calculus of variations (first term). — L. C. KARPINSKI : Higher algebra; Theory of numbers; History of mathematics. — J. W. BRADSHAW : Introduction to modern geometry (second term); Projective geometry . — R. B. ROBBINS : Casualty actuarial theory. — R. W. BARNARD : Differential equations (first term); Mathematical Theory of statistics, advanced course. — A. ZIWET : Hydrodynamics. — P. FIELD : Projective geometry for engineers (first term) ; Vector analysis (second term). — T. R. RUNNING : Graphical methods (first term) Empirical formulas (second term); Advanced calculus (first term); — T. E. HILDEBRANDT : Theory of the potential (first term). — V. C. POOR : Theoretical mechanics. — L. J. ROUSE : Fourier series (second term).

**University of Pennsylvania;** (*Philadelphia*). — E. S. CRAWLEY : Modern analytic geometry (first term); Differential equations (first term); Higher plane curves (second term). — G. H. HALLETT : Infinite series and products (first term); Functions of a complex variable (second term). — H. B. EVANS: Quaternions and vector methods (second term). — O. E. GLEEN : Calculus of variations. — F. H. SAFFORD : Mathematical theory of elasticity. — C. G. CHAMBERS : Introduction to higher algebra. — H. H. MITCHELL : Linear groups (first term); Advanced calculus (second term). — M. J. BABB : History of Mathematics. — F. W. BEAL : Differential geometry. — J. R. KLINE : Foundations of Mathematics (first term); Continuous transformations (second term).

**University of Wisconsin;** (*Madison*). — E. P. LANE : Modern analytical geometry. — E. B. VAN VLECK : Functions of real variable. — Integral equations. — H. W. MARCH : Theoretical hydrodynamics. — C. S. SLICHTER : Potential theory. — E. B. SKINNER : Higher algebra. — A. DRESDEN : Calculus of variations.

**Yale University;** (*Conn.*). — E. W. BROWN: Mechanics; Advanced mechanics; Hydromechanics. — J. PIERPONT: Functions of a complex variable; Projective and differential geometry; Approximation methods. — P. F. SMITH : Differential equations. — W. A. WILSON : Theory of aggregates. — E. J. MILES : Advanced Calculus; Calculus of variations. — J. I. TRACEY : Advanced analytic geometry. — W. L. CRUM : Mathematical statistics. — J. K. WHITTEMORE : Advanced differential geometry.

## FRANCE

**Paris,** *Collège de France.* — Les cours publics et gratuits commenceront le 1er décembre.

*Sciences mathématiques.* — M. LEBESGUE, de l'Institut: Mathématiques.