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Le nouveau décret concernant ces examens date du 29 février 1908. Il insiste sur le but de l'examen de maturité qui ne doit pas être un examen portant sur des détails, mais uniquement sur la culture générale acquise, sur le développement intellectuel atteint par le candidat.

La commission d'examen se prononce d'après l'impression d'ensemble des épreuves orales qui sont précédées d'épreuves écrites et en tenant compte des notes trimestrielles de la dernière année. Lorsqu'un candidat échoue, il peut se présenter une seconde fois au bout d'un semestre ou d'une année; mais il ne peut s'inscrire plus de deux fois à l'examen.

## Cours universitaires.

### ÉTATS-UNIS D'AMÉRIQUE

*Cours annoncés pour l'année universitaire 1910-1911.*

**University of Chicago** (summer quarter, June 20 to September 2). — Prof. E. H. MOORE: General analysis, 4 hours; Seminar on the foundations of mathematics, 4; Graphical methods in algebra, 4, all second term. — Prof. L. E. DICKSON: Theory of substitutions, 4; Differential calculus, 5. — Prof. J. W. A. YOUNG: Critical review of secondary mathematics, 4; Advanced algebra, 5. — Prof. G. A. BLISS: Functions of a complex variable, 4; Modern analytic geometry, 4. — Prof. E. J. WILCZYNSKI: Projective differential geometry, 4; Integral calculus, 5; Synoptic course in mathematics, 5. — Prof. A. L. UNDERHILL: Differential equations, 5; Plane analytic geometry, 5; College algebra, 5.

*Courses announced for the academic year 1910-1911.* — Prof. E. H. MOORE: Introduction to general analysis: Theory of functions of infinitely many variables; Integral equations in general analysis; Seminar on the foundations of pure mathematics; each 2 hours throughout the year. — Prof. L. E. DICKSON: Finite groups, 4 h., 1<sup>st</sup> term; General algebra, 4 h., 2<sup>nd</sup> term; Quadratic forms, 4 h., 3<sup>rd</sup> term. — Prof. F. R. MOULTON: Modern theories of analytic differential equations with applications to celestial mechanics, 4 h., all 3 terms. — Prof. E. J. WILCZYNSKI: Theory of plane curves, 4 h., 1<sup>st</sup> term; Projective differential geometry of ruled surfaces and space curves, 4 h., 2<sup>nd</sup> term; Projective differential geometry of non-ruled surfaces and congruences, 4 h., 3<sup>rd</sup> term. — Prof. K. LAVES: Analytic mechanics, 4 h., 1<sup>st</sup> and 2<sup>nd</sup> terms. — Prof. H. E. SLAUGHT: Differential equations, 4 h., 1<sup>st</sup> term. — Prof. G. A. BLISS: Elliptic integrals, 4 h., 2<sup>nd</sup> term; Theory of definite integrals, 4 h., 3<sup>rd</sup> term; Fundamental existence theorems, 2 h., 2<sup>nd</sup> and 3<sup>rd</sup> terms. — Dr A. C. LUNN: Hydrodynamics, 4 h., 1<sup>st</sup> term; Differential equations of mathematical physics, the conduction of heat, 4 h., 3<sup>rd</sup> term.

**Columbia University, New-York.** — Prof. T. S. FISKE: Theory of functions of a real variable, 3 h.; Functions defined by linear differential equations, 3 h. — Prof. F. M. COLE: Theory of functions of a complex variable, 3 h.; Theory of plane curves, 3 h. — Prof. JAMES MACLAY: Differential equations, 3 h., 2<sup>nd</sup> half-year; Differential geometry, 3 h., 2<sup>nd</sup> half-year.

— Prof. D. E. SMITH : History of mathematics, 2 h. ; Seminar in the history and teaching of mathematics. — Prof. C. J. KEYSER : Modern theories in geometry, 3 h. ; Principles of mathematics, 3 h. — Prof. EDWARD KASNER : Vector Analysis, 2 h., 1<sup>st</sup> half-year ; Geometry of differential equations, 2 h.

**Cornell University**, (Ithaca, New-York). — Prof. J. McMAHON : Theory of probabilities, 2 ; Vector analysis, 2. — Prof. J. H. TANNER : Theory of equations, 3. — Prof. J. I. HUTCHINSON : Theory of functions of a complex variable, 2. — Prof. V. SNYDER : Descriptive Geometry, 3 ; Birational transformations, 2, first term. — Dr. F. R. SHARPE : Mechanics, 2. — Dr. W. B. CARVER : Advanced calculus, 3. — Dr. A. RANUM : Theory of groups, 2. — Dr. D. C. GILLESPIE : Differential geometry, 2. — Dr. C. F. CRAIG : Applications to mechanics and physics, 2. — Dr. F. W. OWENS : Differential equations, 2. — Dr. J. V. McKELVEY : Advanced analytic geometry, 3. — Dr. L. L. SILVERMAN : Algebra of logic, 2.

**Johns Hopkins University** (Baltimore). — Prof. F. MORLEY : Higher geometry, 3 hours, first half year ; Theory of functions, 3 hours, second half-year. — Prof. A. COHEN : Differential equations, 2 ; Calculus of variations, 2, first half-year. — Prof. A. COBLE : Theory of groups, 2 ; Theory of probabilities, 2, second half-year.

**University of Illinois**. — Prof. S. W. SHATTUCK : Differential equations, 3 hours, first semester. — Prof. E. J. TOWNSEND : Theory of functions of a complex variable, 3. — Prof. G. A. MILLER : Higher algebra, 3 hours, first semester ; Theory of groups, 3. — Prof. E. J. WILCZYNSKI : Synoptic course, 3 ; Differential geometry, 3. — Prof. H. L. RIETZ : Actuarial theory, 3 hours, first semester ; Theory of statistics, 3. — Prof. J. W. YOUNG : Elliptic functions, 3. — Prof. C. H. SISAM : Algebraic surfaces, 3. — Dr. A. R. CRATHORNE : Advanced calculus, 3 hours, second semester ; Theory of linear differential equations, 3. — Dr. R. L. BÖRGER : Projective geometry, 3. — Dr. G. E. WAHLIN : Partial differential equations, 3 hours, second semester. Dr. T. BUCK : Solid analytic geometry, 3 hours, second semester.

*Summer of 1910*. — Prof. G. A. MILLER : Theory of equations and determinants, 5 hours ; Elementary theory of groups, 3. — Dr. E. B. LYTLE : Teachers' course, 5. — Dr. G. E. WAHLIN : Differential equations, 5.

**Indiana University**. — Prof. S. C. DAVISSON : Advanced calculus ( $a, w, s$ ), 3 h. ; Fourier series ( $a$ ), 3 h. ; Fundamental concepts of mathematics ( $w, s$ ), 2 h. — Prof. D. A. ROTHROCK : Systems of geometry ( $a, w$ ), 3 h. ; Calculus of variations ( $s, sm$ ), 3 h. ; History of mathematics ( $w$ ), 3 h. — Prof. U. S. HANNA : Theory of numbers ( $a$ ), 3 h. ; Substitution groups and Galois theory ( $w, s$ ), 3 h. — Mr. K. P. WILLIAMS : Functions defined by differential equations ( $a, w$ ), 2 h. ( $a, w, s, sm =$  autumn, winter, spring, summer.)

**Princeton University**. — Prof. H. B. FINE : Theory of algebraic numbers, 3 hours, first term. — Prof. H. D. THOMPSON : Coordinate geometry, 3. — Prof. L. P. EISENHART : Mechanics, 3 ; Differential geometry, 3. — Prof. O. VEBLEN : Linear groups and invariants, 3, second term ; Projective geometry, II, 3 hours, first term ; Projective Geometry, I, 3. — Prof. G. D. BIRKHOFF : Differential equations, 3 ; Differential equations of physics, 3. — Prof. E. SWIFT : Theory of functions of a complex variable, I, 3. — Prof. J. H. McL. WEDDERBURN : Theory of functions of a complex variable, II, 3, second term.

**Yale University**, (New-Haven, Conn.) — Prof. J. PIERPONT : Abelian func-

tions, 2; Thermodynamics, 2; Theory of functions of a complex variable, 2; Modern analytic geometry, 2. — Prof. P. F. SMITH: Geometrical analysis, 1; Differential geometry, 2; Elementary differential geometry, 2. — Prof. E. W. BROWN: Elementary mechanics, 2; Advanced mechanics, 2; Advanced calculus, 3. — Prof. W. R. LONGLEY: Calculus of variations, 2; Potential theory and harmonic analysis, 1. — Dr. A. W. GRANVILLE: Elementary differential equations, 1. — Dr. G. M. CONWELL: Finite groups, 2; Partial differential equations of physics, 1. — Dr. G. F. GUNDELFINGER: Advanced analytic geometry, 2. — Dr. D. D. LEIB: Transformations of space, 2.

## ITALIE <sup>1</sup>

*Année universitaire 1910-1911.*

**Bologna; Università.** — ARZELA: Integrali di Lebesgue; meccanica superiore, 3. — DONATI: Elettromagnetismo; equazioni per i corpi in movimento dal punto di vista del postulato di relatività, 3. — PINCHERLE: Operazioni lineari in generale, equazioni integrali; equazioni differenziali lineari con riguardo speciale alle equazioni del second'ordine (nel campo complesso e nel reale), 3.

**Catania; Università.** — DE FRANCHIS: Geometria differenziale con applicazioni alla geometria noneuclidea, 4. — LAURICELLA: Teoria dell'elasticità; applicazioni varie, 4. — PENNACCHIETTI: Meccanica celeste, 4. — SEVERINI: Teoria delle funzioni, 4.

**Genova; Università.** — LEVI: Fondamenti della teoria delle funzioni di variabile reale; calcolo delle variazioni, 3. — LORIA: Teoria dei gruppi di trasformazioni, 3. — TEDONE: Problemi speciali di equilibrio e di movimento dei corpi solidi elastici, 3.

**Napoli; Università.** — AMODEO: Storia dell'evo antico fino al 1200, 3. — MARCOLONCO: Omografie vettoriali e loro applicazioni all'Idromeccanica, all'Elasticità, all'Elettrodinamica, 3. — MONTESANO: Teoria delle corrispondenze birazionali nello spazio; la geometria della retta e delle coniche nello spazio, 4 1/2. — PASCAL: Equazioni differenziali specialmente in rapporto alla teoria dei gruppi di trasformazioni. — PINTO: Ottica fisica con speciale riguardo ai fenomeni di diffrazione, 4 1/2. — TORELLI: Teoria analitica dei numeri (serie di Dirichlet, funzione  $\zeta(s)$  di Riemann, distribuzione dei numeri primi), 4 1/2.

**Padova; Università.** — D'ARCAIS: Teoria generale delle funzioni di variabili complesse; funzioni ellittiche, 4. — CISOTTI: Teoria matematica dell'elasticità ed applicazioni tecniche, 3. — FAVARO: La lettura delle matematiche nello Studio di Padova dal secolo XIV<sup>o</sup> al XVII<sup>o</sup>, 3. — GAZZANIGA: Teoria dei numeri, 3. — LEVI-CIVITA: Meccanica statistica, teoria cinetica dei gas, 4 1/2. — RICCI: Metodi di calcolo differenziale assoluto; funzioni armoniche e poliarmoniche; teoria generale della elasticità, 4. — SEVERI: Teoria delle funzioni algebriche di due variabili e dei loro integrali, 4. — VERONESE: Fondamenti di geometria, 4.

<sup>1</sup> 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.