CATALOGUE

The following bulletins, all biennial except Parts V and IX and the Appropriate the Catalogue of the University; bulletin number and date are given in parentheses:

1. Part I: Fellowships, Scholarships, Tutorships and Assistant III.

Loan Funds, Main University (No. 3403: January 15, 1934).

2. Part II: College of Pharmacy (No. 3408: February 22, 1934)

3. Part III: School of Business Administration (No. 3410. March

4. Part IV: College of Engineering (No. 3412: March 22, 1934)

5. Part V: General Information, Main University (No. 3510) 10

6. Part VI: College of Arts and Sciences and School of Education 3517: May 1, 1935).

7. Part VII: Graduate School (No. 3519: May 15, 1935).

8. Part VIII: School of Law (No. 3429: August 1, 1934).

9. Part IX: Medical Branch (No. 3505: February L. 1935

10. Appendix to Parts I-VIII: Annual Register of Students, Main University and of the Extramutal Divisions. No. 3441, with student supplement completing the Long Session of 18 and including the Summer Session of 1934).

CENERAL PURPOSE OF THE CATALOGUE

The Catalogue of the Main University is intended to give general after to record the work of the biennium about to close, and to make an other for the ensuing biennium.

As to the courses to be offered the following Long Sessions, the contains only a preliminary announcement and is superseded by Announcement of Courses, printed in September of each year.

The Catalogue contains the official regulations for the next two retains to degree requirements, these regulations are not valid beyond the

HE UNIVERSITY OF TEXAS BULLETIN

No. 3517: May 1, 1935

CATALOGUE NUMBER

Part VI: College of Arts and Sciences and School of Education

1933-1934 and 1934-1935

With Announcements for 1935–1936 and 1936–1937



Dept of Pure
Math

UNDER THE ACT OF AUGUST 24, 1912

28 Part VI: College of Arts and Sciences and School of Education

A student on final trial whose score cannot be determined because of proposed grades is dropped from the rolls of the University.

Final trial is for a definite period, during which the student, while still is attendance upon his classes, must show marked improvement in his studies in default of which his connection with the University terminates with the period.

Class attendance.—The University expects, and has a right to expendisa student on special observation or final trial will attend classes with unitaling regularity, will be punctual in reports and other written work, and an make every effort to show marked improvement in his courses. A fails student unwilling to put forth every effort to keep up with his classes should be withdrawn from the University.

In case of illness or any other imperative reason for absence, a state should file a written explanation of each absence with the Dean to be enter upon his record card.

Return after failure.—A student scholastically dropped from the favoresity by reason of failure in work may register again, if dropped during the Long Session, not earlier than the next Summer Session or the beginning the next Long Session. A student scholastically dropped at the end of the second semester may register in the next term of the Summer Session but in the next Long Session earlier than the second semester except as providender the required minimum of work rule.

A student who has been on special observation or final trial or who has been forced to withdraw by reason of failure in work is permitted to reason subsequently in good scholastic standing only if he has remained commonsly out of school as long as four semesters of the Long Session.

The foregoing requirements and the rules governing special observation at final trial apply to all students, and the Dean is without discretion excepts the case of mature students over 25 years of age.

DEGREES

In the College of Arts and Sciences six degrees are offered. Bachela Arts, Bachelor of Journalism, Bachelor of Science in Home France, Bachelor of Science in Geology, Bachelor of Science in Medicine, and Recolor of Science in Nursing.

GENERAL REQUIREMENTS

No honorary degree will be conferred by The University of Texas

No degree will be conferred except publicly and on Commencement Day, June or in August.

It is desired that all candidates attend the Commencement at which the degree is to be conferred. However, those not wishing to do so may seem exemption from attendance by giving the Registrar written notice at least many in advance and providing the address and postage for mailing the diplosition.

u Texas 1934-35

College of Arts and Sciences: Degrees

29

sublidate absent without having given such notice will not be graduated as defined but, in order to secure his degree, must apply in the regular way so, p. 30) at a later Commencement.

We terree will be conferred without a residence in the Main University of Long Session semesters, or five Summer Session terms, or one Session semester and two Summer Session terms, or an equivalent, and completion in residence of at least thirty semester hours of work in the season Arts and Sciences counting toward the degree.

All cast twenty-four of the last thirty semester hours offered for an underpoint degree must be taken in the Main University, but not necessarily in selection the case of the Degree Preparatory to Law, the degree of theory of Science in Medicine, the degree of Bachelor of Science in Nursing, selection of Degrees Preparatory to Medicine, this rule applies to the

Of the courses offered for any undergraduate degree, at least six semester is a madvanced courses in the major subject must be completed in residence to Main University.

de more than half of the semester hours required for any degree offered la College of Arts and Sciences may be done by correspondence.

descond bachelor's degree will be conferred until the candidate has comsolved likest twenty-four semester hours in addition to those counted toward in bachelor's degree.

condidate for a degree must register in the University and apply to his degree not later than May 1 if it is to be conferred in June, the than August 1 if it is to be conferred in August.

this will not be approved for graduation unless they have complied with regulations regarding physical training. See the General Information

GRADUATION UNDER A PARTICULAR CATALOGUE

audent registering either for the first time or in a later year in the creek Arts and Sciences may obtain a degree in the College of Arts Sciences according to the requirements of the catalogue then in force.

Suident registering in the College of Arts and Sciences in the Summer

Actual registering in the College of Arts and Sciences in the Summer and obtain a degree in this College according to the requirements of the catalogue applying to the previous Long Session or of the one of the catalogue applying to the previous Long Session.

A sudent completing in the Division of Extension, either in extension at hy correspondence or in both ways together, by February 15 of any a least twelve semester hours of work counting toward, a degree in the degree in accordance with the remains of the catalogue applying to that year.

If the above provisions, however, are subject to the restriction that all properties for a degree in the College of Arts and Sciences must be used within six years of the date of the catalogue chosen.

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APPLYING FOR A DEGREE

A candidate for a degree must register in the University and should apply for the degree at the time of registration. Application must be made to later than May 1 for the Long Session, or August 1 for the Summer Session.

To apply for a degree, the applicant

- (a) Must file with the Dean a "Degree Card." This card will be filed as in the Registrar's office upon request of the applicant, and should be applied for as early as March 1 of the junior year previous to graduation in June of August. Attention to this matter will save the student trouble and dear a registration.
- (b) Must register in the University with the Dean and must not withdraw before graduation.
- (c) Must fill out a "Diploma Card" at registration and get the Dean is sign it.

In advising and in registering students, the Dean and his assistants to prevent errors. Avoidance of errors is the main purpose of the Degree Gran. But the student himself is expected to remember that graduation is attained according to some one catalogue, and is expected to study the requirements of forth in that one catalogue and to register in accordance therewith, and is finally registers entirely at his own risk.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARIS

PLAN I

A. Prescribed Work

1. Twelve semester hours in English (English 1, and 12 or 13)

2. Six semester hours in mathematics or six semester hours in Latin Unit 1) or six semester hours in Greek (Greek 1 if no units in Greek were coding toward admission; Greek 12 if two units were so credited). A student in offers a course in one of the classical languages in satisfaction of this requirement may not offer the same course toward the satisfaction of Requirement 3.

- 3. Twelve semester hours of numbered courses in one foreign linears either ancient or modern. In satisfying this requirement Latin B. as a numbered course.
- 4. Twelve semester hours in the natural sciences, six being Chemismor 5 or Physics 1, 2, or 9, and six being Botany 1, or Geology 1, or Zoologs or 6. Any one may be taken first.
- 5. Three semester hours in American Government (Government ill) Three semester hours in economics; recommended, but not compiles, a women,
 - 6. Three semester hours in philosophy or psychology.
- 7. The courses set down in one of the groups below under C.
- 8. Thirty semester hours of advanced courses. Courses of senior rank can as twice their value in satisfying this requirement, but not more than a semester hours of senior courses may be counted in this manner. (See Recommendation of the seminary of the s

U Texas 1934-35

College of Arts and Sciences: Degrees

31

and Credit Value" of courses in the General Information bulletin.) Not more that welve of the thirty semester hours of advanced courses of this requirement may be taken outside of the College of Arts and Sciences. At least emission hours in advanced courses in the major subject must be completed in residence at the Main University.

9. Enough other courses to make 120 semester hours, chosen by the student when to the rules set forth in D below.

B. Special Requirements

Let The student must make an average of at least fifteen points per semester on the courses taken at the University which are required and counted and the degree, an A grade on a semester hour counting as 21 points; a B boints; a C as 15 points; a D as 12 points; an E, an F, or a G as zero. A mident whose average is at least twenty points per semester hour with an A as the major examination is graduated "with highest honors"; a student the average is at least nineteen points per semester hour with an A on the examination is graduated "with high honors"; a student whose average is at least eighteen points per semester hour with at least a B on the major the points is graduated "with honors."

In the case of students majoring in departments that do not require a major commation, honors are determined as in the preceding paragraph except the first the grade in the major examination there is substituted a grade, total by the major department, for the student's work considered as a whole.

Astudent majoring in a department which requires a major examination pass a general four-hour written examination in his major subject on of the second semester of his senior year, or on May 7 or August 10 ing the completion of the requirement in the major subject. Not later ten days before the date set for the examination the Dean sends to nairmen of the several departments a list of students eligible for the commation. The chairman of the department in which the major is taken ies the place of the examination and supervises the giving of it. August candidies may take this examination in May or on August 10. Students taking examination will not be counted as absent from classes while actually tion it. In the modern foreign language group the examination may be my oral to test the candidate's command of the spoken language. In setting examination the faculty of the department will take into account the aucular courses elected by the student, but will expect a more mature and supehensive knowledge than is required in the regular semester examinations. student who fails to pass the major examination may take the examination collowing May or August, but in no case will a special examination be

3. The student must, before May 15 of his senior year if a June candidate, August 5 if an August candidate, show such ability to write clear and most English as to satisfy the Committee on Students' Use of English. To conour the habitual use of clear and correct English, the written work

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38

32 Part VI: College of Arts and Sciences and School of Educate

(theses, reports, quizzes, examination papers, etc.) of every student in all courses is subject to inspection by the Committee. It is the dity of member of the teaching staff to require that his students shall be extended their use of English, to give due weight in making up of grades to be dents' use of English, and to report promptly to the Committee, submitting evidence, any student whose use of English is seriously defective. It student be found deficient, the Committee will prescribe for him such as in its judgment is proper, and this work must be done to the same of the Committee before the student can obtain his degree,

4. The student must show such ability to read one foreign language satisfy the Committee on Foreign Language Requirements. This requirements may be met by the student at the end of his sophomore year or late. The tion to appear before the Committee for examination should be filed with the Registrar in accordance with the dates announced in the official calculations.

It is the intent of this requirement that the student should have set trol of the language chosen by him that he can understand and understand and understand and understand in the field of his major subject.

C. Degree Groups

The courses laid down in one of these six groups must be included in 120 semester hours required for the B.A. degree.

The student is advised to choose his group as early as possible in his career but is not required to do so until the beginning of his jumos year.

All students intending to major in any subject are strongly advised it sult with the chairman of their major department well in advance of the registration for an advanced course.

The student will note that it is possible so to arrange his minors and escape as to take in effect two majors, belonging either to the same of a discrepancy. Such an arrangement is especially desirable for those who was teach two subjects.

Courses in education, law, engineering, and business administration of count either as majors or minors, except that business administration used as a minor when either economics or government is a major.

A course taken to meet the requirements under "A. Prescribed Voccounts also toward satisfying the requirements laid down in that subject these groups.

At least six semester hours of advanced courses in the major subjects be completed in residence at the Main University.

1. Classical (Greek or Latin) Group

Major Subject: Twenty-four semester hours in Greek or twenty-four ter hours in Latin. In either case at least twelve semester hours must be advanced courses.

Minor Subject: Either (a) twelve semester hours of numbered course second foreign language, preferably Greek if the major subject be to

U Texas 1934-35

College of Arts and Sciences: Degrees

33

s. 13 the major subject be Greek; or (b) twelve semester hours of advanced

smore than sixty-six semester hours may be counted in foreign language.

2. English Group

for Subject: Eighteen semester hours of advanced courses in English, semester hours of which must be in senior work.

the Subject: Twelve semester hours of numbered courses in Latin or the state of French or Italian.

Su emester hours in history.

ditional semester hours of numbered courses in foreign language moment or modern); or eighteen semester hours in social science the required history); or twelve semester hours in social science the required history) and six semester hours in journalism or in publicing

3. Pure and Applied Mathematics Group

Mos Subject. Thirty semester hours in mathematics, of which at least

Subject: Eighteen semester hours in a second subject, preferably or philosophy or chemistry or economics.

4. Modern Foreign Languages Group

Subject: Twenty-four semester hours of numbered courses in French Gamm or Spanish or Czech.

the Subjects: Twelve semester hours of numbered courses in a second pringuage (either ancient or modern), and either (a) six semester hours the courses in this second foreign language, or (b) six semester hours about courses in a third foreign language, or (c) six semester hours described courses in English, or (d) six semester hours of advanced courses in semester.

semester hours in history.

Coore than sixty-six semester hours may be counted in foreign language.

Natural Science (Botany and Bacteriology, Chemistry, Geology, Physics, and Zoology) Group

be Subject: Twenty-four semester hours in one natural science.

If the major subject be chemistry, there must be included at least six sections in general chemistry, six in quantitative analysis, six in organic in and four in physical chemistry, and at least twelve of the twenty success hours must be advanced.)

Subjects: Twelve semester hours in a second natural science, unless out subject be physics, in which case there must be twelve semester trusthematics and six semester hours in chemistry; or unless the major to the chemistry, in which case there must be either twelve semester hours

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118 Part VI: College of Arts and Sciences and School of Education

[19. Extempore Speaking.—Theory and methods. Training in thinking and speaking before an audience. Class exercises in speaking extemporaneously on assigned topics. The organization of original materials; composition for public speaking and adaptation of speaking manner to subject matter. Prerequisite: Sophomore standing. MWF 9. Mr. Griscom. (Given as 319 and 319K after 1934-1935.)]

319f. Extempore Speaking.—Theory and methods. Training in thinking and speaking before an audience. Class exercises in speaking extemporaneously on assigned topics. The organization of original material; composition of public speaking and adaptation of speaking manner to subject matter. Prerequisite: Sophomore standing. Section 1, MWF 9; Section 2, TTS 9. Section 4, TTS 10. Mr. Griscom (1935–1936), Mr. Rousse. (Formerly his half of Public Speaking 19.)

319s. Extempore Speaking.—Repetition of Public Speaking 319f. TTS 10 Mr. Rousse.

319Ks. Extempore Speaking.—Theory and methods. Training in thinking and speaking before an audience. A continuation of Public Speaking 319. Prerequisite: Public Speaking 319. Section 1, MWF 9; Section 2, TIS 9. Mr. Griscom. (Formerly last half of Public Speaking 19.)

For Undergraduates and Graduates

320f. Advanced Argumentation and Debate.—Argumentation and debiting in high schools and colleges. Analysis of current debate question. Coaching debate, extempore speaking, and declamations. Prerequisite: Six semister hours of sophomore courses in public speaking and junior standing. TIS 16.

Mr. ROUSSE. (Formerly Public Speaking 316.)

321s. Speech Problems.—Speech training in secondary schools. Emphasis upon the teaching of public speaking in high school and college. Organization and direction of school literary and public speaking societies, with study of and practice in parliamentary procedure. Prerequisite: Six semester hours of sophomore courses in public speaking and junior standing. TTS 10 Mr. ROUSSE. (Formerly Public Speaking 315.)

- 25. Seminar in Public Speaking.—Special study of subjects for the University intercollegiate public speaking and essay contests. Class exercises in the discussion of assigned topics in the field of the subject studied. Pressuisite: Six semester hours of sophomore courses in public speaking. Mr. Griscom. (Alternates with Public Speaking 27; given in 1935–1936.)
- 27. Advanced Public Speaking.—For advanced students interested in professional work. Preparation and delivery of addresses for special occasions including critical analysis of masterpieces such as great debates and platform addresses. Prerequisite: Six semester hours of sophomore courses in public speaking; junior standing. Hours to be arranged. Mr. Griscom. (Alternational Public Speaking 25; omitted in 1935–1936.)

U Texas 1934-35

College of Arts and Sciences: Pure Mathematics

119

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328]. Oratory.—For students interested in intersociety and intercollegiate atorical contests. Rhetoric of persuasive speech; oratorical masterpieces; active in writing and delivery of various types of public addresses. Prerequite: Twelve semester hours in public speaking. TTS 9. Mr. GRISCOM.

329s. History of American Oratory.—A study of the significant speeches and speakers in American history; examination of the historical, social, and placed hackground of these speeches. Special attention is given to a few reat orators as interpreters of their times. Oral and written reports required. Recognisite: Public Speaking 328. TTS 9. Mr. GRISCOM.

DEPARTMENT OF PURE MATHEMATICS

ASSOCIATE PROFESSOR BATCHELDER, Chairman

OFESSORS M. B. PORTER, 70 MOORE, DODD, ETTLINGER; ASSOCIATE PROFESSORS. VANDIVER, 71 BATCHELDER; ADJUNCT PROFESSORS DECHERD, G. H. PORTER, LÜBBEN; INSTRUCTORS BASYE, GREENWOOD, 72 JONES, KLIPPLE, VICKERY

The requirement of six semester hours in mathematics for a degree in the allege of Arts and Sciences may be satisfied by any two of the following consess. Pure Mathematics 301, 302, 303, and 304.

students without credit for trigonometry are required to take Pure Matheanies 301. This may also be taken by students with more than fifteen credits, conding trigonometry (however, note the following paragraph). But students the only fifteen credits, including trigonometry, are required to take Pure thematics 302. Pure Mathematics 302 may, indeed, be taken by all students the credit for trigonometry; and it is recommended for all such students who is interested in mathematics or its applications.

olid geometry and trigonometry, either or both, accepted as entrance credit each be counted as two semester hours toward a degree, provided (1) subjects are in excess of full admission, and (2) an average grade of at the interest is made in six semester hours of higher mathematics in the University. The Department of Pure Mathematics will not recommend for high-school actions in mathematics persons who have credit for less than eighteen extershours in the subject.

Sudents who plan to major in mathematics have a choice of several lines of the subject. In addition after Mathematics 13 (calculus), which should be included in every group tourses, the student interest in analysis may take Pure Mathematics 21, 23, 33K, 84, 85, 86, 92, 93, or 96; in algebra and number theory, 315, 323, 36, 337, 380, 381, 82, 82K, or 91; in foundations of mathematics and point-set terr, 323, 88, 89, or 90; in geometry, 327, 328, or 30; in probability, 45, 44, or 83K.

Misent on leave for the first semester of 1934-1935. Misent on leave for the session of 1933-1934. Appointment for 1934-1935 only. M

120 Part VI: College of Arts and Sciences and School of Education.

Students who plan to major in physics or chemistry may take Pure Mathematics 13, 22, 41, 92, 93, 94, 95, or 96; in business administration or social sciences, 18, 45, 46, or 47.

Students planning to teach may take Pure Mathematics 327 or 333 at Education 27.

For Undergraduates

301-302. Plane Trigonometry and Analytic Geometry.—Pure Mathematics 301 and Applied Mathematics 304 may not both be counted for credit by the same student; nor may Pure Mathematics 302 and Applied Mathematics 305 both be counted for credit by the same student.

301s. Plane Trigonometry.—Pure Mathematics 301 and Applied Mathematics 304 may not both be counted for credit by the same student.

302f. Analytic Geometry.—For students who want only one semester of analytic geometry. Prerequisite: Pure Mathematics 301. Pure Mathematics 302 and Applied Mathematics 305 may not both be counted for credit by the same student.

302-303. Analytic Geometry.—Prerequisite: Trigonometry. Pure Mathematics 302 and Applied Mathematics 305 may not both be counted for credit by the same student.

304f. College Algebra.—(Not given in 1933-1934.)

304s. College Algebra.—(Not given in 1933-1934.)

13. Calculus.—Recommended to students intending to continue mathematics and to students of physics and chemistry. Prerequisite: Pure Mathematics 302. If before taking Pure Mathematics 13 the student has credit for nine of twelve semester hours in mathematics, Pure Mathematics 13 will count at three or six advanced semester hours. Pure Mathematics 13 and Applied Mathematics 13 may not both be counted for credit by the same student. Section 1, MWF 11; Section 2, TTS 11.

315s. Theory of Equations.—Determinants, symmetric functions, theory of polynomials, etc. Recommended as a fundamental course for students specializing in mathematics. Prerequisite: Pure Mathematics 302. MWF 10. M. VANDIVER (1934-1935), Mr. BATCHELDER (1933-1934). (Not given in 1935-1936.)

18. The Mathematics of Finance.—Compound interest, annuities, amorination, sinking funds, depreciation, valuation of bonds, mortality tables, in surance, and pensions. Prerequisite: Six semester hours in mathematics. TIS 9. Mr. Dodd. (May be counted as a course in business administration if taken after junior standing is attained.)

For Undergraduates and Graduates

21. Advanced Calculus.—Rigorous treatment of the foundations of calculus. The convergence of infinite series, improper integrals, differential equations.

u Texas 1934-35

College of Arts and Sciences: Pure Mathematics

and other topics. Prerequisite: Pure Mathematics 13. If before taking Pure Mathematics 21 a student has credit for three or six semester hours of diameted courses in mathematics, this course will count as a senior course to the extent of three or six semester hours. TTS 11. Mr. Moore (1933-1934 and 1935-1936), Mr. KLIPPLE (1934-1935).

22. Differential Equations and Applications.—Solutions of differential equations of physics, chemistry, and engineering, and study of the properties of the solutions. Prerequisite: Pure Mathematics 13. Counts in the same manner a Pure Mathematics 21. The same as Applied Mathematics 22. MWF 8.

323f. Introduction to the Foundations of Algebra.—Study of the axioms of which algebra is based. Prerequisite: Twelve semester hours in mathematics. Counts in the same manner as Pure Mathematics 21. Mr. VANDIVER. (Not given in 1933-1934, 1934-1935 or 1935-1936.)

221f. Ruler and Compass Constructions.—Critical study of the constructions of plane geometry, with numerous applications. Prerequisite: Twelve semester fours in mathematics. Counts in the same manner as Pure Mathematics 21.

328s. Descriptive Geometry.—The mathematical basis of descriptive geometry, treated by the Mongean method. Prerequisite: Twelve semester hours in mathematics. Counts in the same manner as Pure Mathematics 21. Mr. HTLINGER. (Given for the first time in 1934-1935; not given in 1935-1936.)

30. Introduction to Modern Analytic Geometry. — Space transformations and invariants. The methods will be largely analytic. Prerequisite: Pure Mathematics 303 and 13, the latter of which may be taken in parallel. Counts at the same manner as Pure Mathematics 21. MWF 10. Mr. PORTER, Mrs. PORTER (1934-1935). (Not given in 1933-1934 or 1935-1936.)

333s. Teaching Problems in Mathematics.—A survey and investigation of the teaching problems of elementary and junior college mathematics. Prerequisite: Twelve semester hours in mathematics. Counts in the same manner Pure Mathematics 21. WF 4-5:30. Mr. PORTER.

336f. Elementary Number Theory.—Divisibility, linear congruences, quadratic residues, quadratic forms. Prerequisite: Eighteen semester hours in mathematics. Counts in the same manner as Pure Mathematics 21. Mr. Vanuver (1935–1986), Mr. Batchelder (1933–1934). (Not given in 1934–1935 of 1936–1937.)

337s. Topics in Modern Algebra.—Invariants and the abstract theory of matrices with applications to analytical projective geometry. Prerequisite: Pure Mathematics 336 or eighteen semester hours in mathematics. Counts in the same manner as Pure Mathematics 21. Mr. ETTLINGER (1933-1934), Mr. VANDIVER (1935-1936). (Not given in 1934-1935 or 1936-1937.)

Dept of Pure Math

121

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122 Part VI: College of Arts and Sciences and School of Educato

- [41. Analytical Mechanics.—Equilibrium and motion of a particle shid and body in two or three dimensions. Prerequisite: Pure Mathematics 13 Common in the same manner as Pure Mathematics 21. The same as Applied Mathematics 41. Mr. Ettlinger. (Not given in 1933–1934, 1935–1936, pr. 1935–1937.)]
- [45. Probability.—Distributions of Laplace, Poisson, and Pearson Strift cance tests. Kinetic theory of gases. Statistical mechanics. Prerepublic Eighteen semester hours in mathematics, including Pure Mathematics I Counts in the same manner as Pure Mathematics 21. (May be consider to course in business administration.) Mr. Dopp. (Not given in 1935-1934, 1935, or 1936-1937.)]
- 46. Mathematical Statistics.—An advanced course in statistics dealing on such topics as the consistency and association of classes, simple and multiple correlation, criteria for chance phenomena, curve fitting, periodogram indicated calculus of observations, and mathematical groundwork of economics prequisite: Eighteen semester hours in mathematics. Counts in the same manual Pure Mathematics 21. Mr. Doop. (Not given in 1934-1935 of 1936-1937).
- 47. Actuarial Mathematics.—Graduation of mortality tables, premum le life insurance and annuities upon one or more lives, varying benefits, charles Prerequisite: Eighteen semester hours in mathematics, including Pire Mathematics 13. Counts in the same manner as Pure Mathematics 21. (Mr. bounted as a course in business administration.) Mr. Dopo. (Not present 1933-1934, 1934-1935, or 1935-1936.)

For Graduates

Craduate standing is a prerequisite for all graduate courses except a permission of the instructor in charge.

- 380f. Finite Groups.—Substitution groups and the abstract theory of the groups with applications. Prerequisite: Six semester hours of advanced on in pure mathematics and consent of the instructor. A considerable degree mathematical maturity will be required. Mr. Vandiver. (Not given in 1934, 1934–1935, or 1936–1937.)
- 381s. Algebraic Solvability.—Algebraic solution of algebraic equation Discussion of the quintic. Theory of algebraic fields, Prerequisite Par Mathematics 380 and consent of the instructor. A considerable degree mathematical maturity will be required. Mr. Vandiver. (Not given in 1934, 1934–1935, or 1936–1937.)
- 82. Theory of Algebraic Numbers.—Prerequisite: Consent of the instruction A considerable degree of mathematical maturity will be required. Mr. VIII DIVER. (Not given in 1934–1935 or 1935–1936.)
- [82K. Research in Algebraic Numbers.—Prerequisite: Pure Mathematics 2 and consent of the instructor. Mr. Vandiver. (Given for the first line of 1934–1935; not given in 1935–1936 or 1936–1937.)]

W Texas 1934-35

College of Arts and Sciences: Pure Mathematics

123

Theory of Functions of Real Variables.—Prerequisite: Six semester real senior or graduate courses in mathematics and consent of the instruc-ITS 10. Mr. Dodo. (Not given in 1933-1934 or 1935-1936.)

66. Analytic Probability.—Foundations of probability from the standpoint analysis. Prerequisite: Pure Mathematics 21 or 83, and consent the instructor. Mr. Dono. (Not given in 1934–1935.)

M. Inalytic Functions.—Prerequisite: Pure Mathematics 21 and consent the instructor, Mr. Porter. (Not given in 1934-1935 or 1935-1936.)

definite Processes.—Infinite series and products. Prerequisite: Pure lemants: 21 or 83. Mr. Dodd. (Not given in 1933–1934, 1934–1935, or 106-1937.)

to Modern Analysis.—Designed to give the student some to the scope and power of function-theoretic methods and some insight the leading ideas of modern mathematics. Prerequisite: Pure Mathematics A. Mr. Porter. (Not given in 1933-1934, 1934-1935, or 1936-1937.)

- Continuous Groups.—Lie theory of continuous groups, infinitesimal informations, criteria for invariance of certain ordinary and partial differtial equations under infinitesimal transformation, differential invariants, and plations to polynomial invariants of binary forms. Prerequisite: Pure the parties 21 or 22 or Applied Mathematics 325 and 326. Mr. Cooper. 10 1933-1934 or 1934-1935.)
- Conditions of Mathematics.—Critical study of the foundations of the matics. Prerequisite: Consent of the instructor. A considerable degree mathematical maturity will be required. Mr. Moore. (Not given in 1933—
- Pant-sets and Continuous Transformations.—Critical study of pointsetures, regions, etc.. Prerequisite: Consent of the instructor. Mr. Moore. 15 given in 1933-1934 or 1934-1935.)
- Research in Point-set Theory.—Prerequisite: Consent of the instructor.
- 91. Theory of Linear Associative Algebras. Prerequisite: Pure Mathe-530 and consent of the instructor. Mr. Vandiver. (Not given in 1933— 95. 1936, or 1936–1937.)]
- Purtial Differential Equations.—Recommended for advanced students payars and engineering. Prerequisite: Pure Mathematics 22 or its equivalents as Applied Mathematics 92. Mr. ETTLINGER. (Not given in 1934-1935, or 1936-1937.)
- 5. Selected Topics in Mathematical Physics.—Prerequisite: Six semester of senior courses in mathematics or physics and graduate standing. 6. STRINGER: (Not given in 1934-1935 or 1935-1936.)
- 55. Theory of Relativity.—Study of the theory of space and time developed the Line of the said others, with applications to dynamics and other branches of

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