CATALOGUE

The following bulletins, all biennial except Part V and IX and the Announcements are given in parentheses:
2. Part II: College of Pharmacy (No. 3408: February 22, 1934).
3. Part III: School of Business Administration (No. 3410: March 4, 1934).
5. Part V: General Information, Main University (No. 3516: April 1935).
6. Part VI: College of Arts and Sciences and School of Education (3517: May 1, 1935).
8. Part VIII: School of Law (No. 3529: August 1, 1934).
10. Appendix to Parts I–VIII: Annual Register of Students, Main Units (Directory of the Main University and of the Extramural Branches, No. 3441), with student supplement completing the Long Session of 1934, and including the Summer Session of 1934.

GENERAL PURPOSE OF THE CATALOGUE

The Catalogue of the Main University is intended to give general information about the work of the biennium about to close and to make some provision for the ensuing biennium.

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to the courses to be offered, the following Long Session, the Catalogue contains only a preliminary announcement and is superseded by the Announcement of Courses, printed in September of each year.

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

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

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

Class attendance.—The University expects, and has a right to expect, that a student on special observation or final trial will attend classes with marking regularity, will punctuality in reports and other written work, and make every effort to show marked improvement in his course. If a student unwilling to put forth every effort to keep up with his classes does not withdraw from the University.

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

Return after failure.—A student scholastically dropped from the University 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 of 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 or in the next Long Session earlier than the second semester except as provided under 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 register subsequently in good scholastic standing only if he has remained continuously out of school as long as four semesters of the Long Session.

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

DEGREES

In the College of Arts and Sciences six degrees are offered: Bachelor of Arts, Bachelor of Journalism, Bachelor of Science in Home Economics, Bachelor of Science in Geology, Bachelor of Science in Medicine, and Bachelor 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 in 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 secure exemption from attendance by giving the Registrar written notice at least 60 days in advance and providing the address and postage for mailing the diploma.

Candidate absent without having given such notice will not be graduated as stated but, in order to secure his degree, must apply in the regular way by 9:30 at a later Commencement.

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

At least twenty-four of the last thirty semester hours offered for an undergraduate degree must be taken in the Main University, but not necessarily in residence. In the case of the Degree Preparatory to Law, the degree of Bachelor of Science in Medicine, the degree of Bachelor of Science in Nursing, or Scheme II of Degrees Preparatory to Medicine, this rule applies to the academic work only.

If the courses offered for any undergraduate degree, at least six semester hours in advanced courses in the major subject must be completed in residence at the Main University.

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

A second bachelor's degree will be conferred until the candidate has completed at least twenty-four semester hours in addition to those counted toward the bachelor's degree.

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

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

GRADUATION UNDER A PARTICULAR CATALOGUE

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

A student registering in the College of Arts and Sciences in the Summer Session may obtain a degree in this College according to the requirements of the catalogue applicable to the previous Long Session or of the one nearest following.

A student completing in the Division of Extension, either in extension courses by correspondence or in both ways together, by February 15 of any year at least twelve semester hours of work counting toward a degree in the College of Arts and Sciences may obtain that degree in accordance with the requirements of the catalogue applying to that year.

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

A student may always graduate under the current catalogue.
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 no 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 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 or August. Attention to this matter will save the student trouble and delay in 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 to sign it.

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

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

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 (Latin 1) or six semester hours in Greek (Greek 1 if no units in Greek were credited toward admission; Greek 12 if two units were so credited). A student who 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 language, either ancient or modern. In satisfying this requirement Latin Hours as a numbered course.
4. Twelve semester hours in the natural sciences, six being Chemistry 5 or 5 or Physics 1, 2, or 9, and six being Botany 1, or Geology 1, or Zoology 1 or 6. Any one may be taken first.
5. Three semester hours in American Government (Government 10). Three semester hours in economics; recommended, but not compulsory, for 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 are to be twice their value in satisfying this requirement, but not more than 90 semester hours of senior courses may be counted in this manner. (See "Debt of Credit Value" of courses in the General Information bulletin.) Not more than twelve of the thirty semester hours of advanced courses of this requirement may be taken outside of the College of Arts and Sciences. At least 12 semester hours in advanced courses in the major subject must be completed in residence at the Main University.

The student must complete 120 semester hours, chosen by the student subject to the rules set forth in D below.

B. Special Requirements

1. The student must make an average of at least fifteen points per semester hour on the courses taken at the University which are required and counted toward the degree, an A grade on a semester hour counting as 21 points; a B as 18 points; a C as 15 points; a D as 12 points; an E, an F, or a G as zero.
2. A student whose average is at least twenty points per semester hour with an A on the major examination is graduated "with highest honors"; a student whose average is at least nineteen points per semester hour with an A on the major examination is graduated "with high honors"; a student whose average is at least eighteen points per semester hour with at least a D on the major examination is graduated "with honors."
3. If the case of students majoring in departments that do not require a major examination, honors are determined as in the preceding paragraph except that the grade in the major examination there is substituted a grade, and the major department, for the student's work considered as a whole.
4. A student majoring in a department which requires a major examination may pass a general four-hour written examination in his major subject on May 1 of the second semester of his senior year, or on May 7 or August 10 following the completion of the requirement in the major subject. Not later than ten days before the date set for the examination the Dean sends to the chairman of the several departments a list of students eligible for the examination. The chairman of the department in which the major is taken is in the place of the examiners and supervises the giving of it. A student cannot take this examination in May or on August 10. Students taking the examination will not be counted as absent from classes while actually taking it. In the modern foreign language group the examination may be oral or written, to test the candidate's command of the spoken language. In setting the examination the faculty of the department will take into account the general courses elected by the student, but will expect a more mature and comprehensive knowledge than is required in the regular semester examinations. A student who fails to pass the major examination may take the examination again following May or August, but in no case will a special examination be held.

5. The student must, before May 15 of his senior year if a June candidate, or August 5 if in August candidate, show such ability to write clear and correct English as to satisfy the Committee on Students' Use of English. To pass the habitual use of clear and correct English, the written work
(theses, reports, quizzes, examination papers, etc.) of every student is subject to inspection by the Committee. It is the duty of each member of the teaching staff to require that his students shall make a diligent use of English, to give due weight in making up of grades to the students' use of English, and to report promptly to the Committee any evidence, any student whose use of English is seriously defective. When a student is found deficient, the Committee will prescribe for him such as in its judgment is proper, and this work must be done to the satisfaction of the Committee before the student can obtain his degree.

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

It is the intent of this requirement that the student should have had control of the language chosen by him that he can understand and translate prose of moderate difficulty—preferably, in the case of the modern language in the field of his major subject.

C. Degree Groups

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

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

All students intending to major in any of these subjects in the College of Liberal Arts and Sciences must be in good standing, and they must take a course in English literature.

The student will note that it is possible to arrange his minor and major as to take in effect two majors, belonging to the same or to different groups. Such an arrangement is especially desirable for those who wish to teach two subjects.

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

A course taken to meet the requirements under "A", "B", "C", "D", or "E" counts also toward satisfying the requirements laid down in that subject. These courses can be transferred from these groups.

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

1. Classical (Greek or Latin) Group

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

Minor Subject: Either (a) twelve semester hours of numbered or (b) twelve semester hours in English.

2. English Group

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

Minor Subject: Twelve semester hours of numbered courses in Latin or Greek or French or Italian.

Minor Subject: Six semester hours in history.

3. Pure and Applied Mathematics Group

Major Subject: Thirty semester hours in mathematics, of which at least 12 must be in advanced courses.

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

Minor Subject: Six semester hours in philosophy.

4. Modern Foreign Languages Group

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

Minor Subject: Twelve semester hours of numbered courses in a second foreign language (either ancient or modern), and either (a) six semester hours of advanced courses in this second foreign language, or (b) six semester hours of numbered courses in the third foreign language, or (c) six semester hours of advanced courses in English, or (d) six semester hours of advanced courses in social science.

Minor Subject: Six semester hours in history.

At least sixty-six semester hours may be counted in foreign language.

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

Major Subject: Twenty-four semester hours in one natural science. If the major subject be chemistry, there must be included at least six semester hours in general chemistry, six in quantitative analysis, six in organic chemistry, and four in physical chemistry, and at least twelve of the twenty-four semester hours must be advanced.

Minor Subject: Twelve semester hours in a second natural science, unless the major subject be physics, in which case there must be twelve semester hours in mathematics and six semester hours in chemistry; or unless the major subject be chemistry, in which case there must be either twelve semester hours
especially of Texas. Emphasis on evidences of the evolution of the arts. Pre-
requisite: Twelve semester hours of advanced courses in anthropology or six
semester hours of advanced courses in anthropology and graduate standing
MWF 8. Mr. Pearce. (Alternates with Anthropology 84; omitted in 1935-
1936.)

81. Old World Archaeology.—A synthetic view of the conceptions of moder-
archaeologists with regard to the long periods of man's social develop-
ment preceding written history. Special emphasis upon Europe, but some at-
tention also to Mesopotamia, Egypt, Persia, India, Turkestan, China, and Japan.
Pre-
requisite: Twelve semester hours of advanced courses in anthropology and
ability to read at least one foreign language. TTS 8. Mr. Engerrand
(Alternates with Anthropology 80; given in 1935-1936.)

98. Thesis Course for the Master's Degree.—Mr. Pearce, Mr. Engerrand

DEPARTMENT OF APPLIED MATHEMATICS

AND ASTRONOMY

PROFESSOR COOPER, Chairman

PROFESSORS BENEDICT, CATHOUN, COOPER; ASSOCIATE PROFESSOR KELLY

AIRMEN: PROFESSIONALS CLEVELAND, CRAIG, HASKELL; INSTRUCTOR URIKINSKI

APPLIED MATHEMATICS

For Undergraduates

01f, 01s. Algebra.—Non-credit; required of all engineering students. Six
sections.

202f, 202s. Solid Geometry.—Required of candidates for engineering degree
who do not present solid geometry for entrance. Counts toward academic
degrees but not toward engineering degrees. TT 8.

303s. Mathematics for Home Economics Students.—May not be used
to satisfy the mathematics requirement for any degree in the College of Arts
and Sciences except the degree of Bachelor of Science in Home Economics. TTS 8.

304f. Plane Trigonometry.—Applied Mathematics 304 and Pure Mathe-
ematics 304 may not both be counted for credit by the same student. Six
sections.

304s. Plane Trigonometry.—Repetition of Applied Mathematics 304. Sec-
tion 1, MWF 10; Section 2, TTS 9.

305f. Analytic Geometry.—Prerequisite: Applied Mathematics 304. Ap-
plied Mathematics 305 and Pure Mathematics 302 may not both be counted
for credit by the same student. Section 1, MWF 10; Section 2, TTS 9.

305s. Analytic Geometry.—Repetition of Applied Mathematics 305. Four
sections.
Part VI: College of Arts and Sciences and School of Education

same as Pure Mathematics 4.1; counts in the same manner as Pure Mathematics 41. Mr. Ettlinger. (Not given in 1933-1934, 1935-1936, or 1936-1937.)


65. Advanced Applied Mathematics.—Explanation and application of operational calculus, functions of a complex variable, vector analysis, partial differential equations, dimensional analysis, integral equations, and Lagrange's equations to problems in applied physics and research engineering of General Electric Company, Westinghouse, Bell Telephone, etc. Prerequisites: Applied Mathematics 325 and 326. Hours to be arranged. Mr. Keller.

66. Applications of Tensor Analysis.—Tensor analysis, including differentiation processes, with emphasis on the applications. Specifically, applications will be made to Riemannian geometry, mechanics, electricity and magnetism, special relativity, and gravitation. Prerequisite: Three semester hours of Applied Mathematics 64. Mr. Craig. (Not given in 1933-1934 or 1934-1935.)

367a. Non-linearity in Astronomy, Engineering, and Physics.—Applications of modern theories of differential equations in three- and four-body problems. Applications of Cotton's, Schmidt's, and Volterra's methods, integral equations to circuit problems, dynamic braking of synchronous machines, and oscillation problems of physics and engineering. Prerequisite: Applied Mathematics 22 or 65. Hours to be arranged. Mr. Keller. (Sponsored in 1934-1935.)

69. Mathematical Analysis for Advanced Physical Chemistry.—Atomic and molecular mechanics, kinetic theory and statistical mechanics, all with special reference to the recent developments in chemistry. Prerequisite: Applied Mathematics 22, or 325 and 326. MWF 12. Mr. Haskell. (Not given in 1933-1934 or 1934-1935.)

For Graduates

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

809. Dynamics.—The Lagrange and Hamiltonian form of the equations of a dynamical system, with emphasis on their application to modern engineering. Prerequisite: Applied Mathematics 325 and 326. Hours to be arranged. Mr. Haskell. (Not given in 1933-1934 or 1934-1935.)

92. Partial Differential Equations.—Recommended for advanced students of physics and engineering. Prerequisite: Applied Mathematics 22. The use...