

BUILDINGS

- Agriculture.
- Animal Husbandry Pavilion.
- Francis Hall (Veterinary Medicine).
- Chemistry. Laundry.
- Aeration Tank. Power Plant.
- College Greenhouse.
- Mechanical Engineering Shops.
- Textile Engineering.
- Military Science.
- Library.
- 13. Science.
- 14. Agricultural Experiment Station.
- Agricultural Experiment Station.
- A. & M. Consolidated School. Fxtension Service.
- 18. Physics.
 19. Hart Hall (Dormitory).
- Civil Engineering. Foster Hall (Dormitory).
- Academic Building.
- Engineering Experiment Station.
- Electrical Engineering.
- Mechanical Engineering.
 Leggett Hall (Dormitory).
 Gathright Hall (Dormitory).
- College Exchange Store.
- Buildings and Grounds.
- Milner Hall (Dormitory). Sbisa Hall (Dining Hall).
- 31.
- Armory.
- Bacnelor Hall (Dormitory). Post Graduate Hall (Dormitory).
- Walton Hall (Dormitory).
- Aggieland Inn Annex. 36. 37.
- Aggieland Inn.
- Hospital.
- President's Residence.
- Assembly Hall.
 Law and Puryear Halls (Dormitories).
- Mitchell Hall (Dormitory).
- Y. M. C. A.
 Goodwin Hall (Dormitory).
 Bizzell Hall (Dormitory).
- Guion Hall.
- Campus Residences.
- Drill Field.
- Tennis Courts.
- Intramural Gymnasium.
- Swimming Pool. Memorial Gymnasium.
- Physical Education.
- Memorial Stadium.
- Baseball Field.
- 56. 57. United States Post Office.
- Missouri Pacific Depot.
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- Architecture. Veterinary Hospital.
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- 66. Engineering.67. Plant Industry.

BULLETIN

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ANNOUNCEMENTS FOR THE SESSION 1932-33



56

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THE COLLEGE CALENDAR

Summer Session of 1932

June 7, Tuesday, Registration for the first term.
June 8, Wednesday, Classes begin.
June 9, Thursday, Last day for registration in the College division for credit during the first term.

July 4, Monday, Independence Day, a holiday.

JULY 16, SATURDAY, First term examinations; registration for the second term. July 18, Monday, Registration for the second term. July 19, Tuesday, Classes begin for the second term. July 21, Thursday, Last day for registration in the College division for credit during the second term.

August 27, Saturday, Second term examinations.

Regular Session of 1932-33

1932

SEPTEMBER 16, FRIDAY, Entrance Examinations.

SEPTEMBER 19, Monday, Opening of the First Semester. Registration of new students.

September 19 to 24, inclusive, Freshman Week.

SEPTEMBER 21, WEDNESDAY, Registration of old students and graduate students. September 22, Thursday, First Semester classes begin at 8 a. m. November 11, Friday, Observance of Armistice Day, 11 a. m. November 24-26. Thursday, Friday, Saturday, Thanksgiving recess. December 17, Saturday, Christmas recess begins at noon.

January 2, Monday, Classes resumed at 8 a. m.
January 23 to 28, inclusive, Semester examinations.
January 30, Monday, Registration for the Second Semester.
January 31, Tuesday, Second Semester classes begin at 8 a. m.
April 20-22, Thursday, Friday, Saturday, Spring recess.
May 22 to 27, inclusive, Semester examinations in senior courses.
May 28, Sunday, Commencement Sunday.
May 29 to June 3, inclusive, Semester examinations in other courses.
June 3, Saturday, Commencement Day.

(The announcements in this Catalogue are based upon present conditions and are subject to change without notice.)



Part I

OFFICERS OF ADMINISTRATION AND OF INSTRUCTION

BOARD OF DIRECTORS

Members

TERMS EXPIRE 1933

TERMS EXFIRE 1999
EDWARD J. KIEST, Owner and Publisher, Dallas Times-Herald Dallas
P. L. DOWNS, JR., Cashier, First National Bank Temple
W. T. MONTGOMERY, Ranchman and Contractor San Antonio
TERMS EXPIRE 1935
F. MARION LAW, President, First National Bank Houston
BYRD E. WHITE, Lawyer and Banker Lancaster
WALTER G. LACY, President, Citizens National Bank Waco

TERMS EXPIRE 1937
HENRY C. SCHUHMACHER, President, Schuhmacher Co Houston
JOSEPH KOPECKY, Publisher Hallettsville
G. R. WHITE, Banker and Ranchman Brady

Officers

F. M. LAW, President
BYRD E. WHITE, Vice-President
S. G. BAILEY, Secretary

Officers Of Administration

Office of the President -

THOMAS OTTO WALTON, LL.D., President of the College. S. G. BAILEY, Executive Secretary of the College; Secretary to the Board of Directors.

MRS. M. N. WILLIAMSON, Secretary to the President. GEORGE A. LONG, B.S., Supervising Accountant, Branch Colleges. J. KNOX WALKER, B.S., Supervising Engineer, Branch Colleges.

The Deans and Directors

CHARLES PURYEAR, M.A., C.E., LL.D., Dean of the College and of the Graduate School. EDWIN JACKSON KYLE, B.S., B.S.A., M.S.A., Dean of the School of Agriculture. Mark Francis, D.V.M., LL.D., Dean of the School of Veterinary Medicine.

MARK FRANCIS, D.V.M., LL.D., Dean of the School of Veterinary Medicine.

Frank C. Bolton, M.S., Dean of the School of Engineering; Acting Dean of the College.

CHARLES H. WINKLER, Ph.D., Dean of the School of Vocational Teaching; Director of the Summer Session.

CHARLES E. FRILEY, A.M., LL.D., Dean of the School of Arts and Sciences.

ARTHUR B. CONNER, M.S., Director of the Agricultural Experiment Station.

FREDERICK E. GIESCKE, M.E., Ph.D., Director of the Engineering Experiment Station; College Architect.

O. B. Martin, A.B., Director of the Agricultural Extension Service. Eric O. Siecke, B.A., B.S.F., Director of the Forest Service.

GEORGE S. FRAPS, Ph.D., State Chemist.

F. L. Thomas, Ph.D., State Entomologist. James O. Morgan, Ph.D., Vice-Dean of the School of Agriculture; Acting Dean of the Graduate School.

CHARLES C. HEDGES, Ph.D., Vice-Dean of the School of Engineering.
R. E. KARPER, M.S., Vice-Director of the Agricultural Experiment Station.
H. H. WILLIAMSON, B.S., Vice-Director of the Agricultural Extension Service.

Office of the Registrar

CHARLES E. FRILEY, A.M., LL.D., Registrar and Secretary of the Faculty. EUGENE J. HOWELL, B.S., Assistant Registrar. WILLIAM E. MORGAN, B.S., Recorder.

Office of the Comptroller

W. H. HOLZMANN, Comptroller of Accounts. WALTER WIPPRECHT, B.S.A., Business Manager. VICTOR B. EDGE, Accountant. CLIFFORD C. EDGE, Cashier.

Office of the Commandant

CHARLES J. NELSON, B.S., Colonel, U.S. A. (D.O.L.), Commandant. JOHN E. MITCHELL, B.S., Assistant Commandant.

The Library

THOMAS F. MAYO, M.A., Librarian.
MRS. W. H. THOMAS, Assistant Librarian.
MRS. R. L. TREICHLER, A.B., B.S., Assistant Librarian.
MRS. R. K. FLETCHER, B.A., Head Cataloguer.
MRS. R. T. STEWART, B.A., Supervisor of Periodicals.
MARY RICE, B.A., B.S., Loan Assistant.
JOSEPHINE STEWART, Cataloguer.
MRS. R. G. REEVES, Assistant Supervisor of Periodicals.

Office of the College Architect

FREDERICK E. GIESECKE, M.E., Ph.D., College Architect. S. C. P. Vosper, Architectural Designer.

PHILIP G. NORTON, B.S., Draftsman
J. M. Forsyth, B.S., Mechanical Engineer.
M. W. Wilson, B.S., Structural Engineer.

Buildings and College Utilities

B. D. MARBURGER, B.S., Superintendent. W. A. ORTH, B.S., Assistant Superintendent.

The Hospital

J. E. Marsh, B.A., M.D., College Physician. Mrs. IRENE CLAGHORN, Assistant Superintendent.

The Young Men's Christian Association

Myron L. Cashion, A.B. Secretary. J. Gordon Gay, M.A., Assistant Secretary.

The Publicity Office

CURTIS VINSON, Director of Publicity. RUBY MORROW, A.B., Secretary.

Other Officers

W. A. Duncan, Supervisor of Subsistence. R. K. Chatham, Manager of the Exchange Store. J. E. Angell, Manager of Student Publications.

FACULTY

- (Figures in parenthesis indicate date of first appointment on the College Staff and date of appointment to present position, respectively.)
- THOMAS OTTO WALTON, LL.D., President of the College. (1912, 1925)
- CHARLES PURYEAR, Dean of the College, Dean of the Graduate School, Professor of Mathematics. (1889, 1907) M.A., Richmond College, 1881; C.E., Virginia, 1885; LL.D., Daniel Baker, 1914.
- MARK FRANCIS, Dean of the School of Veterinary Medicine, Professor of Veterinary Anatomy. (1888, 1916) D.V.M., Ohio State, 1887; LL.D., Miami, 1929.

- EDWIN JACKSON KYLE, Dean of the School of Agriculture, Professor of Horticulture. (1902, 1911)

 B.S., Agricultural and Mechanical College of Texas, 1899; B.S.A., Cornell, 1901; M.S.A., 1902.
- OSCAR MELVILLE BALL, Professor of Biology. (B.A., Virginia, 1898; M.A., Ph.D., Leipsig, 1903.
- JOHN BREWER BAGLEY, Professor of Textile Engineering. (1905, 1908) B.A., Wake Forest College, 1900.
- Frank Cleveland Bolton, Dean of the School of Engineering, Acting Dean of the College. (1909, 1922) B.S., Mississippi Agricultural and Mechanical College, 1905; M.S., Ohio State, 1928.
- JAMES OSCAR MORGAN, Vice-Dean of the School of Agriculture, Professor of Agronomy, Acting Dean of the Graduate School. (1912) B.S., North Carolina State College, 1905; M.S.A., Cornell, 1907; Ph.D., 1909.
- ALVA MITCHELL, Professor of Engineering Drawing. (1902, 1912) B.C.E., Agricultural and Mechanical College of Texas, 1894.
- CHARLES CLEVELAND HEDGES, Vice-Dean of the School of Engineering, Professor of Chemistry and Chemical Engineering. (1912, 1913)
 B.S., Kentucky, 1906; A.B., Cornell, 1908; Ph.D., 1912.
- CHARLES BOYLE CAMPBELL, Professor of Modern Languages. (1903, 1914) Ph.B., DePauw, 1900; Ph.D., Chicago, 1912.
- Ross Perry Marsteller, Professor of Veterinary Medicine and Surgery. (1905, 1916) D.V.M., Ohio State, 1905.
- OSCAR WILLIAM SILVEY, Professor of Physics. (19 A.B., Indiana, 1907; A.M., 1910; Ph.D., Chicago, 1915 (1916)
- FLOYD BARZILIA CLARK, Professor of Economics. (1916) A.B., Richmond College, 1907; M.A., 1908; Ph.D., Johns Hopkins, 1914.
- ERIC OTTO SIECKE, Professor of Forestry; Director, Texas Forest Service. (1918) B.A., Nebraska, 1904; B.S.F., 1905.
- SHERMAN WEAVER BILSING, Professor of Entomology. (1913, 1918) A.B., Ohio State, 1912; M.A., 1913; Ph.D., 1924.
- Daniel Scoates, Professor of Agricultural Engineering. B.S., Iowa State College, 1910; A.E., 1915.
- JOHN JEFFERSON RICHEY, Professor of Civil Engineering. (1912, 1922) B.S., Illinois, 1903; C.E., 1910.
- George Summey, Jr., Professor of English. (1922) A.B., Southwestern Presbyterian, 1897; M.A., 1898; Ph.D., Columbia, 1919.
- DAVID WILLARD WILLIAMS, Professor of Animal Husbandry. (1919, 1923) B.S., Ohio State, 1915; M.S., Illinois, 1916.
- Eugene Peter Humbert, Professor of Genetics. (1916, 1923) B.S.A., Iowa State College, 1906; M.S., Cornell, 1908; Ph.D., 1910.

- CHARLES HERMAN WINKLER, Dean of the School of Vocational Teaching; Professor of Agricultural Education; Director of the Summer Session. (1923) B.S., Texas, 1904; M.A., 1914; Ph.D., Missouri, 1916.
- DUNCAN HENRY REID, Professor of Poultry Husbandry. (1923) B.S., Wisconsin, 1919; M.S., 1922.
- CHARLES EDWIN FRILEY, Dean of the School of Arts and Sciences; Registrar of the College. (1911, 1924)
 B.S., Agricultural and Mechanical College of Texas, 1919; A.M., Columbia, 1923; LL.D., Simmons, 1929.
- WILLIAM LYCURGUS HUGHES, Professor of Rural Education. (1920, 1924)
 B.A., Howard Payne College, 1920; B.S., Agricultural and Mechanical College of Texas, 1921; M.S., 1922.
- SAMUEL RHEA GAMMON, Professor of History. (1925)
 A.B., Washington and Lee, 1911; A.M., 1913; Ph. D. Johns Hopkins, 1921.
- ERNEST WILLIAM STEEL, Professor of Municipal and Sanitary Engineering. (1925)C.E., Cornell, 1920.
- EDWARD LAFAYETTE WILLIAMS, Professor of Industrial Education. (1925) B.S., Pittsburg, 1925; M.S., Agricultural and Mechanical College of Texas, 1930.
- FREDERICK WILLIAM HENSEL, JR., Professor of Landscape Art. (1913, 1925) B.S., Agricultural and Mechanical College of Texas, 1907; M.S., Cornell, 1914.
- VIRGIL PORTER LEE, Professor of Marketing and Finance, (1923, 1926) B.A., Texas, 1918; M.A., 1919; Ph.D., Wisconsin, 1923.
- THOMAS WILLIAM LELAND, Professor of Accounting and Statistics. (1922, 1926) B.A., Wisconsin, 1921; M.A., 1922; C.P.A., 1929.
- SAMUEL AUGUSTUS McMillan, Professor of Farm and Ranch Management. (1910, 1926) B.S., Agricultural and Mechanical College of Texas, 1909; M.S.A., Cornell, 1917.
- DANIEL RUSSELL, Professor of Rural Sociology. (1926, 1927) A.B., Baylor, 1922; A.M., Chicago, 1931.
- FREDERICK ERNEST GIESECKE, Professor of Engineering Research; Director Texas Engineering Experiment Station; College Architect. (1886, 1927)
 M.E., Agricultural and Mechanical College of Texas, 1890; S.B., in Architecture,
 Massachusetts Institute of Technology, 1904; Ph.D., Illinois, 1924.
- CHARLES JOHNSTON NELSON, Colonel, U. S. Army, Professor of Military Science and Tactics, Commandant. (1927) B.S., Alabama Polytechnic Institute, 1897.
- JOHN TIPTON LONSDALE, Professor of Geology. (1928) B.S., Iowa, 1917; M.S., 1921; Ph.D., Virginia, 1924.
- CHARLES NOAH SHEPARDSON, Professor of Dairy Husbandry. (1928) B.S., Colorado Agricultural College, 1917; M.S., Iowa State College, 1924.
- ERNEST LANGFORD, Professor of Architecture. (1915, 1929)
 B.S., Agricultural and Mechanical College of Texas, 1913; M.S., Illinois, 1924.
- CHARLES WILLIAM CRAWFORD, Professor of Mechanical Engineering, (1919, 1929) B.S., Agricultural and Mechanical College of Texas, 1919; M.S., 1929.
- MADISON BELL, Professor of Physical Education. (1929) B.S., Centre College, 1920.
- JOHN BERRY JOYCE, Professor of Petroleum Engineering. (1929) B.S., Agricultural and Mechanical College of Texas, 1917.
- MARTIN COLLINS HUGHES, Professor of Electrical Engineering; Acting Head of the Department. (1923, 1931) B.S., Illinois, 1917; E.E., 1926.
- WALTER LEE PORTER, Professor of Mathematics; Acting Head of the Department. (1918, 1931)
 - A.B., Howard College, 1911; M.S., Agricultural and Mechanical College of Texas, 1926.

OTHER MEMBERS OF THE TEACHING STAFF

Professors

- MARMADUKE K. THORNTON, JR., Professor of Industrial Chemistry. (1910, 1919) B.S., Mississippi Agricultural and Mechanical College, 1909; A.M., Columbia, 1914.
- GILBERT ALLEN GEIST, Professor of Architecture. (1909, 1921) B.S., St. John's College, 1899.
- WILLIAM HENRY THOMAS, Professor of English. (1906, 1921) B.Litt., Texas, 1902; A.M., Columbia, 1920.
- HAROLD RENSHAW BRAYTON, Professor of Inorganic Chemistry. (1917, 1922)
 A.B., Wisconsin, 1914; M.S., 1915.
- C. WINFIELD BURCHARD, Professor of Organic Chemistry. (1917, 1922) A.B., Allegheny College, 1908; M.A., Wisconsin, 1911.
- DAVID BROOKS COFER, Professor of English. (1910, 1922) A.B., Centre College, 1907; M.A., Wisconsin, 1927.
- JOHN WEEMS MITCHELL, Professor of Mathematics. (1907, 1925)
 A.B., Maryville College, 1904.
- HILLEL HALPERIN, Professor of Mathematics. (1920, 1925) E.E., Liege, 1908; A.M., Columbia, 1915.
- ALBERT LAURIE DARNELL, Professor of Dairy Husbandry. (1914, 1925)
- B.S., Mississippi Agricultural and Mechanical College, 1918; M.A., Missouri, 1916.

 JOHN THOMAS LAMAR MCNEW, Professor of Highway Engineering. (1920, 1925)

 B.S., Agricultural and Mechanical College of Texas, 1920; M.S., 1926; C.E., Iowa
- State College, 1925.

 Thurmond Armour Munson, Professor of Hydraulic Engineering. (1920, 1926)
 - B.S., Agricultural and Mechanical College of Texas, 1910; C.E., Iowa State College, 1924; M.S., 1925.
- LUTHER GOODRICH JONES, Professor of Agronomy. (1919, 1926)
 B.S., Princeton, 1917; M.S., Agricultural and Mechanical College of Texas, 1921;
 Ph.D., Cornell, 1927.
- DAVID CLUIE JONES, Professor of Mathematics. (1909, 1927) B.A., Emory, 1908.
- GEORGE BARTON WILCOX, Professor of Rural Education. (1920, 1927) B.S., Agricultural and Mechanical College of Texas, 1923; A.M., Columbia, 1926.
- ELMER ROSS ALEXANDER, Professor of Agricultural Education. (1919, 1927)

 A.B., Baylor, 1919; B.S., Agricultural and Mechanical College of Texas, 1923;

 M.S., 1926.
- VANGEL KONSTANTINE SUGAREFF, Professor of History. (1923, 1927) A.B., Syracuse, 1917; A.M., Harvard, 1918.
- *GUY WEBB ADRIANCE, Professor of Horticulture. (1920, 1927)
 B.S., Agricultural and Mechanical College of Texas, 1915; M.S., California, 1917;
 Ph.D., Michigan State College, 1929.
- Frank Gist Anderson, Professor of Physical Education. (1920, 1927) B.S., Mississippi College, 1916; M.A., 1917.
- CHARLES ORVINE SPRIGGS, Professor of Public Speaking. (1926, 1927) A.B., Indiana, 1924; M.A., Northwestern, 1980.
 - ARTHUR KAPP MACKEY, Professor of Animal Husbandry. (1925, 1928) B.S., Purdue, 1921; M.S., Illinois, 1923.
 - JOHN PARSONS WHEELER, Major, Cavalry (D.O.L.), Professor of Military Science and Tactics. (1928)
 - LEWIS ANDREW PICK, Captain, Corps of Engineers (D.O.L.), Professor of

^{*} On leave, 1931-32.

- Military Science and Tactics. (1928) B.S., Virginia Polytechnic Institute, 1914.
- ROBERT GATLIN REEVES, Professor of Biology. (1928)
 - B.S., Mississippi Agricultural and Mechanical College, 1922; M.S., 1923; Ph.D., Iowa State College, 1928.
- LINTON ELIAS GRINTER, Professor of Civil Engineering. (1928, 1929) B.S., Kansas, 1923; C.E., 1930; M.S., Illinois, 1924; Ph.D., 1926.
- BENJAMIN FRANKLIN DELAMATER, JR., Major, Infantry (D.O.L.), Professor of Military Science and Tactics. (1929) Graduate, United States Military Academy, 1912.
- JUSTUS WHEELER BARGER, Professor of Economics. (1929)
- B.S., Kansas State Agricultural College, 1922; M.S., 1923; M.A., Leland Stanford, 1929.
- JEFFERSON CHENOWTH DYKES, Professor of Agricultural Education. (1929) B.S., Agricultural and Mechanical College of Texas, 1921.
- Paul Larue Neal, First Lieutenant, Signal Corps (D.O.L.), Professor of Military Science and Tactics. (1923, 1929)
- ELIAS WARD MARKLE, Professor of Electrical Engineering. (1921, 1930) B.S., Pennsylvania State College, 1913; M.S., Agricultural and Mechanical College of Texas, 1930.
- RALPH CLARK DUNN, Professor of Veterinary Medicine and Surgery. (1911, 1930)
 - D.V.M., Ohio State, 1911.
- Walter Rawlins Horlacher, Professor of Genetics. (1923, 1930)
 - B.S., Kansas State Agricultural College, 1920; M.S., 1922; Ph.D., Wisconsin, 1929.
- ALEXANDER VAN Brewer, Professor of Mechanical Engineering. (1922, 1930) B.S., Purdue, 1913; M.E., 1925.
- Frederick William Jensen, Professor of Chemistry. (1925, 1930) B.S., Nebraska, 1920; M.S., 1923; Ph.D., 1925.
- NORMAN FREDERICK RODE, Professor of Electrical Engineering. (1922, 1930)

 B.S., Clemson College, 1919; M.S., Agricultural and Mechanical College of Texas, 1929.
- Walter Lawren Penberthy, Professor of Physical Education. (1926, 1930) B.S., Ohio State, 1926.
- HARLEY CLAY DILLINGHAM, Professor of Electrical Engineering. (1922, 1930) B.S., Agricultural and Mechanical College of Texas, 1922; A.M., Columbia, 1930.
- Virgil Moring Faires, Professor of Mechanical Engineering. (1926, 1930) B.S., Colorado, 1922; M.E., 1926; M.S., 1927.
- DURANT SAMUEL BUCHANAN, Professor of Animal Husbandry. (1920, 1930) B.S., Agricultural and Mechanical College of Texas, 1917; M.S., Iowa State College,
- NESTOR MASSIE McGINNIS, Professor of Landscape Art. (1915, 1930) B.S., Agricultural and Mechanical College of Texas, 1908.
- SAMUEL ROLAND HOPKINS, Major, Field Artillery (D.O.L.), Professor of Military Science and Tactics. (1931) A.B., St. John's College, 1905.
- WILLIAM CLAUDE WASHINGTON, Major, Coast Artillery Corps (D.O.L.) Professor of Military Science and Tactics. (1931) B.S., Agricultural and Mechanical College of Texas, 1912.
- CARLTON HERBERT RAGLAND, Acting Professor of Horticulture. (1931) B.S., Mississippi Agricultural and Mechanical College, 1926.

Associate Professors

AUGUST ALBERT LENERT, Associate Professor of Veterinary Medicine. (1919)
B.S., Agricultural and Mechanical College of Texas, 1914; D.V.M., Kansas City Veterinary College, 1917.

- Frederick Arthur Burt, Associate Professor of Geology. (1921) B.S., Colgate, 1908; M.S., Chicago, 1929.
- Percy Glyndon Gunter, Associate Professor of English. (1911, 1922) A.B., Elon College, 1909; M.A., North Carolina, 1910.
- FRITZ ERNEST LICHTE, Associate Professor of Textile Engineering. (1917, 1922) B.S., Agricultural and Mechanical College of Texas, 1906; M.S., 1930.
- THOMAS FRANKLIN MAYO, Associate Professor of English; Librarian of the College. (1916, 1923) B.A., Mississippi, 1913; A.M., Oxford, 1922.
- JOSEPH SAYERS MOGFORD, Associate Professor of Agronomy. (1925) B.S., Agricultural and Mechanical College of Texas, 1916; M.S., 1920.
- ALBERT DOW MARTIN, Associate Professor of Mathematics. (1921, 1925) B.S., Gunter College, 1908; B.A., Texas Christian University, 1920.
- PATTON WRIGHT BURNS, Associate Professor of Veterinary Physiology and Pharmacology. (1926) B.S., Agricultural and Mechanical College of Texas, 1923; D.V.M., 1926.
- *Pennoyer Francis English, Associate Professor of Biology. (1922, 1926) B.S., Oregon Agricultural College, 1919; M.S., Agricultural and Mechanical College of Texas, 1925.
- RALPH THOMAS STEWART, Associate Professor of Agronomy. (1926) B.S., Iowa State College, 1924; M.S., 1925; Ph.D., 1928.
- ARTHUR EDWARDS WHARTON, Associate Professor of Veterinary Pathology. (1926)D.V.M., Colorado Agricultural College, 1925.
- EDWARD EARL VEZEY, Associate Professor of Physics. (1920, 1922)
 B.S., Oklahoma Agricultural and Mechanical College, 1910; M.S., Agricultural and Mechanical College of Texas, 1927.
- LEROY LEVI FOURAKER, Associate Professor of Electrical Engineering. (1920, 1927) B.S., Agricultural and Mechanical College of Texas, 1914; M.S., 1927.
- FRED RUFUS JONES, Associate Professor of Agricultural Engineering. (1921, 1927) B.S., Wisconsin, 1915; M.S., Iowa State College, 1931.
- VAN ALLEN LITTLE, Associate Professor of Entomology. (1923, 1927) B.A., Sam Houston Teachers College, 1922; M.S., Agricultural and Mechanical College
- CARL EDWARD SANDSTEDT, Associate Professor of Civil Engineering. (1923, 1927) A.B., Leland Stanford, 1910; M.S., Agricultural and Mechanical College of Texas,
- Fred Robert Brison, Associate Professor of Horticulture. (1921, 1927) B.S., Agricultural and Mechanical College of Texas, 1921; M.S., Michigan State College, 1931.
- ISAAC CHRISTOPHER SANDERS, Associate Professor of Physics. (1921, 1927) B.A., Rice, 1917; M.A., Texas, 1925.
- STEWART SAMUEL MORGAN, Associate Professor of English. (1921, 1928) B.A., Cincinnati, 1926; M.A., Ohio State, 1927.
- OSCAR ARNOLD WEINKE, Associate Professor of Accounting and Statistics. (1924, 1928)
- B.A., Wisconsin, 1921; M.S., Agricultural and Mechanical College of Texas, 1928.
- CLARENCE JACK FINNEY, Associate Professor of Architecture. (1926, 1928)
 B.S., Agricultural and Mechanical College of Texas, 1922; Diplome, Ecole des Beaux-Arts, Fontainbleau, 1923.
- *JOHN DOUGLAS PITTS FULLER, Associate Professor of History. (1928) B.S., The Citadel, 1919; A.M., Johns Hopkins, 1928.
- JOSEPH JOHN WOOLKET, Associate Professor of Modern Languages. (1925, 1929) A.B., Oberlin College, 1924; M.A., 1925.
- On leave, 1931-32.

- JOHN HARVEY KNOX, Associate Professor of Animal Husbandry. (1927, 1929)
 B.S., Ohio State, 1921; M.S., Illinois, 1924.
- JOHN BOND REID, Associate Professor of Physical Education. (1929)
 A.B., Baylor, 1919.
- ELVER WILLIAM RENNER, Associate Professor of Dairy Husbandry. (1930) B.S., Iowa State College, 1918; M.S., 1929.
- GEORGE HENRY FERN, Associate Professor of Industrial Education. (1924, 1930) B.S., Agricultural and Mechanical College of Texas, 1929.
- Chauncy Barger Godbey, Associate Professor of Genetics. (1926, 1930) B.S., Kentucky, 1925; M.S., Agricultural and Mechanical College of Texas, 1926.
- MILAM FRANK THURMOND, Associate Professor of Agricultural Engineering. (1927, 1930)
 - A.B., Baylor, 1919; B.S., Agricultural and Mechanical College of Texas, 1922; M.S., 1931.
- GEORGE CHILDS BAUER, Associate Professor of Chemistry. (1922, 1930) B.S., Kentucky, 1920; M.S., Iowa State College, 1927.
- *LELAND SHUMWAY PAINE, Associate Professor of Agricultural Economics. (1927, 1930)
 B.A., Nebraska, 1922; M.A., Wisconsin, 1926.
- EDGAR WILSON GLENN, Associate Professor of Engineering Drawing. (1928, 1930)
 - B.S., Illinois, 1924; B.S., Agricultural and Mechanical College of Texas, 1930; M.S., 1931.
- THOMAS ROWAN HAMILTON, Associate Professor of Accounting and Statistics. (1929, 1930)
 A.B., Washington and Lee, 1917; M.S., Columbia, 1924.
- ROBERT LOCKHART MILLS, Associate Professor of Petroleum Engineering. (1930) B.S., Oklahoma, 1929.
- DUANE WILLIAM CARLTON, Associate Professor of Physical Education; Business Manager of Athletics. (1931)

 B.S., Agricultural and Mechanical College of Texas, 1923.
- NAT EDMONSON, JR., Acting Associate Professor of Mathematics. (1931) B.A., Austin College, 1924; M.A., 1925; Ph.D., Rice, 1929.
- JAMES LINUS GLANVILLE, Acting Associate Professor of History. (1931) A.B., Southern Methodist, 1917; A.M., 1918; Ph.D., Johns Hopkins, 1931.
- PETER THORP MONTFORT, Research Associate in Agricultural Engineering. (1928), B.S., Agricultural and Mechanical College of Texas, 1921.

Assistant Professors

- LOUIS ADOLPH KOENIG, Assistant Professor of Chemistry. (1920, 1922) B.A., Texas, 1917.
- ERNEST KENNETH SPAHR, Assistant Professor of English. (1921, 1925) B.A., Milligan College, 1919; M.A., Virginia, 1921.
- *JOHN HENRY BINNEY, Assistant Professor of Mathematics. (1925)
 B.S., Sam Houston Teachers College, 1924; M.A., Texas, 1925.
- THOMAS ROBERT NELSON, Assistant Professor of Mathematics. (1925) B.A., East Texas Normal College, 1917; M.A., Texas, 1922.
- BEECHER CALVIN JONES, Assistant Professor of Chemistry. (1921, 1926)
 A.B., Baylor, 1921; B.S., Agricultural and Mechanical College of Texas, 1923
 M.S., 1926.
- EDWARD LIN HARTER, Assistant Professor of Chemistry. (1921, 1926)

 A.B., Missouri Wesleyan, 1919.

^{*} On leave, 1931-32.

- ELDRED HARRIS GIBBONS, Assistant Professor of Biology. (1925, 1927) B.S.A., Tennessee, 1925; S.M., Chicago, 1929.
- PERCY CLARK KEY, Assistant Professor of English. (1924, 1927) B.A., Texas Christian, 1917; M.A., Vanderbilt, 1918.
- ROSWELL GUNBY HIGGINBOTHAM, Assistant Professor of Physical Education. (1927)

 B.A., Agricultural and Mechanical College of Texas, 1931.
- ROBERT LEE HUNT, Assistant Professor of Marketing and Finance. (1927) B.S., Agricultural and Mechanical College of Texas, 1924; M.S., North Carolina State College, 1927.
- JOHN GRAHAM POWERS, Assistant Professor of Textile Engineering. (1927)
 HORACE GRELLEY JOHNSTON, Assistant Professor of Entomology. (1927)
 B.S., Mississippi Agricultural and Mechanical College, 1926; M.S., Iowa State College,
 1928.
- Earl L. Lyons, Captain, Infantry (D.O.L.), Assistant Professor of Military Science and Tactics. (1928)
- THOMAS CASTLEMAN HARRY, Captain, Field Artillery (D.O.L.), Assistant Professor of Military Science and Tactics. (1928)

 James Vincent Carroll, First Lieutenant, Field Artillery (D.O.L.), Assistant
- JAMES VINCENT CARROLL, First Lieutenant, Field Artillery (D.O.L.), Assistant Professor of Military Science and Tactics. (1928)
 Graduate, United States Military Academy, 1918; B.S., Yale, 1925.
- ISAAC GEORGE WALKER, Major, Cavalry (D.O.L.), Assistant Professor of Military Science and Tactics. (1928)
- EARL T. McCullough, First Lieutenant, Infantry (D.O.L.), Assistant Professor of Military Science and Tactics. (1928)
- WILLIAM FORD MUNNERLYN, Assistant Professor of Poultry Husbandry. (1926, 1928)

 B.S., Agricultural and Mechanical College of Texas, 1926; M.S., 1930.
- JOHN STATES SEYBOLD. First Lieutenant. Corps of Engineers (D.O.L.), Assistant Professor of Military Science and Tactics. (1928)
 Graduate, United States Military Academy, 1920; C.E., Rensselaer Polytechnic Institute, 1922.
- LEONARD RANDALL NACHMAN, First Lieutenant, Infantry (D.O.L.), Assistant Professor of Military Science and Tactics. (1929)
 Graduate, United States Military Academy, 1918.
- HAROLD BURTON GIBSON, Captain, Cavalry (D.O.L.), Assistant Professor of Military Science and Tactics. (1929)
- CALVIN SUTTON RICHARDS, Captain, Field Artillery (D.O.L.), Assistant Professor of Military Science and Tactics. (1929)
- WILLARD HOMER M.C.CORKLE, Assistant Professor of Physics. (1924, 1929) B.A., Iowa, 1924; M.S., 1928.
- ELMER GILLAM SMITH, Assistant Professor of Physics. (1924, 1929)
 A.B., Amherst College, 1919; M.S., Agricultural and Mechanical College of Texas, 1925.
- HENRYK BRONISLAW STENZEL, Assistant Professor of Geology. (1925, 1929) Dr. Phil., Breslau, 1924.
- ROBERT PAGE WARD, Assistant Professor of Electrical Engineering. (1925, 1929)
 B.S., Agricultural and Mechanical College of Texas, 1924.
- JOHN PAUL ABBOTT, Assistant Professor of English. (1926, 1929) B.A., Vanderbilt, 1925.
- *CLIFTON CHILDRESS DOAK, Assistant Professor of Biology. (1926, 1929)
 B.S., North Texas Teachers College, 1922; M.S., Agricultural and Mechanical College of Texas, 1928.

^{*} On leave, 1931-32.

- *Ira Gillespie Adams, Assistant Professor of Economics. (1927, 1929) A.B., Evansville College, 1923; A.M., Minnesota, 1927.
- JAMES GORDON HOLMES, Assistant Professor of Physical Education. (1929) B.S., Agricultural and Mechanical College of Texas, 1928.
- ULMONT STIRLING ALLISON, Assistant Professor of Agricultural Engineering. (1930)B.S., Agricultural and Mechanical College of Texas, 1924.
- GROVER CLEVELAND VAUGHN, Assistant Professor of Economics. (1926, 1930) B.A., Texas, 1921; M.A., 1925.
- JOSEPH ANDERSON ORR, Assistant Professor of Civil Engineering. (1928, 1930) B.S., Agricultural and Mechanical College of Texas, 1922.
- KAY HAINES BEACH, Assistant Professor of Horticulture. (1930) B.S.A., Kansas State Agricultural College, 1928; M.S., Michigan State College, 1930.
- WAYNE EGGLESTON LONG, Assistant Professor of Mechanical Engineering. (1930) B.S., Agricultural and Mechanical College of Texas, 1927.
- VERL CALVON MCKIM, Assistant Professor of Agricultural Economics. (1930) A.B., Wayne State Teachers College, 1925; M.A., Nebraska, 1930.
- ROBERT MABRY MILLHOLLIN, Assistant Professor of Animal Husbandry. (1926, 1930)
- B.S., Agricultural and Mechanical College of Texas, 1923.
- ROBERT FREDERICK KILE, Assistant Professor of Mechanical Engineering. (1931) B.S., Michigan, 1925.
- JOHN ELMER REIERSON, First Lieutenant, Coast Artillery Corps (D.O.L.), Assistant Professor of Military Science and Tactics. (1931).
 Graduate, United States Military Academy, 1920.
- Charles La Motte, Acting Assistant Professor of Biology. (1930) B.A., Texas, 1929; M.A., 1929.
- MEREDITH VERNON McDougal, Acting Assistant Professor of Economics, (1931) B.A., Rice, 1926; Ph.D., Johns Hopkins, 1931.

Instructors

RICHARD WALTER DOWNARD, Instructor in Mechanical Engineering. (1913, 1920) WILLIAM WARREN McCarter, Instructor in Mechanical Engineering. (1922) Francis Frederick Bishop, Instructor in Chemistry. (1923) B.S., Clarkson College of Technology, 1922; M.S., 1928.

ALBERT ASA BLUMBERG, Instructor in Mathematics. (1924) B.A., Texas, 1929.

MARION THOMAS HARRINGTON, Instructor in Chemistry. (1924) B.S., Agricultural and Mechanical College of Texas, 1922; M.S., 1927.

ROLAND EDWARD SNUGGS, Instructor in Chemistry. (1924) A.B., Georgetown College, 1920; M.S., Florida, 1923.

CARL TYLER SPRAGUE, Instructor in Physical Education. (1922, 1924) B.S., Agricultural and Mechanical College of Texas, 1922.

ALBERT HARRISON KERNS, Instructor in Electrical Engineering. (1926) B.S., Kansas State Agricultural College, 1926.

Errol Bathurst Middleton, Instructor in Chemistry. (1922, 1926) B.A., Illinois, 1919; M.S., 1921.

CARL CAMERON PALMER, Instructor in Electrical Engineering, (1926) B.S., Purdue, 1926.

WILLIAM McDonald Potts, Instructor in Chemistry. (1926) S.B., Chicago, 1921; S.M., 1927.

JAMES WENDELL Ross, Instructor in Mathematics. (1926) B.A., Texas, 1923; M.A., 1931.

^{*} On leave, 1931-32.

RICHARD ARTHUR EADS, Instructor in Chemistry. (1927)
B.S., East Texas Normal College, 1917; B.S., East Texas Teachers College, 1923;
M.S., Agricultural and Mechanical College of Texas, 1929.

DAVID WINSTON FLEMING, Instructor in Mechanical Engineering. (1927) B.S., Agricultural and Mechanical College of Texas, 1930.

ULYS ROY GORE, Instructor in Biology. (1927)

RSA, Arkansas, 1925: M.S., Jowa State College, 199

B.S.A., Arkansas, 1925; M.S., Iowa State College, 1926.

CLYDE HAROLD TARNEY, Instructor in Physics. (1927) Ph.B., Ph.M., Wisconsin, 1927.

ROGER VALENTINE McGEE, Instructor in Mathematics. (1928) B.S., Agricultural and Mechanical College of Texas, 1922.

JOSEPH BAKER DENT, Instructor in Engineering Drawing. (1928) B.S., Virginia Polytechnic Institute, 1926; M.S., Agricultural and Mechanical College of Texas, 1931.

Graves Baxter Roberts, Instructor in Modern Languages. (1928) A.B., Davidson College, 1923; A.M., Colorado State Teachers' College, 1926.

WILLIAM REEDER SHERRILL, Instructor in Agricultural Education. (1928) B.S., Agricultural and Mechanical College of Texas, 1928.

ROY MATTHEW WINGREN, Instructor in Mechanical Engineerng. (1928) B.S., Agricultural and Mechanical College of Texas, 1927.

JESSE GERALD CHANEY, Instructor in Mathematics. (1928)
A.B., Southwestern, 1924; M.A., Texas, 1930.

DAN HALL, Instructor in Mathematics. (1928)

A.B., North Carolina, 1927; A.M., 1928.

HUBERT LIONEL CAMP, Instructor in Mathematics. (1929) A.B., Oklahoma, 1928; M.A., 1929.

JAMES CHARLES CHEATHAM, Instructor in Mechanical Engineering. (1929) B.S., Clemson College, 1923.

ALBERT EDWARD FINLAY, Instructor in Mathematics. (1929) B.S., Peabody College, 1929; M.A., 1929.

M. P. Frank, Instructor in Civil Engineering. (1929) B.S., Agricultural and Mechanical College of Texas, 1929.

JOHN O'DELL GRAGG, Instructor in Accounting and Statistics. (1929) B.A. Texas, 1924; B.B.A., 1924; M.A., 1930.

JOHN QUE HAYS, Instructor in English. (1929) A.B., Missouri, 1929.

JAMES ARTHUR TRAIL, Instructor in Mechanical Engineering. (1929) B.S., Agricultural and Mechanical College of Texas, 1929.

JAMES COZBY BYRD, Instructor in Architecture. (1929) B.Arch., Pennsylvania, 1922.

HENRY CECIL Spencer, Instructor in Engineering Drawing. (1929)
A.B., Baylor, 1929; M.S., Agricultural and Mechanical College of Texas, 1931.

CYRIL SAMUEL ADAMS, Instructor in Civil Engineering. (1930) B.S., Agricultural and Mechanical College of Texas, 1930.

JAMES EDWARD BRELAND, Instructor in Engineering Drawing. (1930) B.S., Mississippi Agricultural and Mechanical College, 1928.

LEWIS McDowell Haupt, Jr., Instructor in Electrical Engineering. (1930) B.S., Agricultural and Mechanical College of Texas, 1927.

CLOYD RUSSELL WALLACE, Instructor in Geology. (1930) A.B., Missouri, 1928; A.M., 1930.

WILLARD IRVING TRUETTNER, Instructor in Mechanical Engineering. (1930) B.S., Michigan, 1928; M.S.E., 1980.

CLARENCE ALFRED JOHNSON, Instructor in Architecture. (1927, 1931) B.A., Rice, 1925; B.S., 1927. HARPER GLOVER BROWN, Instructor in English. (1931) B.A., Texas, 1927; M.A., Tulane, 1931.

RAYMOND O. BERRY, Acting Instructor in Biology. (1931) B.S., North Texas State Teachers College, 1928.

Assistants

MARTIN NAPOLEON BROUGHTON, Assistant in Geology. (1931)
B.A., Texas, 1930; M.A., 1931.
ROBERT LEE BULLOCK, JR., Assistant in Electrical Engineering. (1931) B.S., Agricultural and Mechanical College of Texas, 1931.
CLYDE VIRGIL ELLIS, Assistant in Mechanical Engineering. (1931) B.S., Agricultural and Mechanical College of Texas, 1931.
RAPHAEL HEBER LANDER, Assistant in Rural Sociology. (1931) B.S., Agricultural and Mechanical College of Texas, 1931.
JOHN HENRY MILLIFF, Assistant in Biology. (1931) B.S., Agricultural and Mechanical College of Texas, 1931.
BARTHOLD EUGENE NOWOTNY, Assistant in Industrial Education. (1931) B.S., Agricultural and Mechanical College of Texas, 1931.
CORBIN RANSOM OWEN, Assistant in Agronomy. (1931) B.S., Agricultural and Mechanical College of Texas, 1931.

SUMMARY OF THE TEACHING STAFF AS OF APRIL 1, 1932.

Heads of Departments and Other Members of the General Faculty Other Full Professors Associate Professors Assistant Professors Instructors Assistants	42 42 38 41 40 7
*TOTAL	210

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^{*} Including 7 on leave, Session 1931-32.

THE AGRICULTURAL EXPERIMENT STATION

STAFF (As of January 1, 1932)

Administration:

A. B. Conner, M.S., Director. R. E. Karper, M.S., Vice-Director. CLARICE MIXON, B.A., Secretary. M. P. Holleman, Jr., Chief Člerk. J. K. Franklow, Assistant Chief Clerk. CHESTER HIGGS, Executive Assistant. HOWARD BERRY, B.S., Technical Assistant.

Chemistry:

G. S. Fraps, Ph.D., Chief; State Chemist. J. Franklin Fudge, Ph.D., Chemist.
S. E. Asbury, M.S., Assistant Chemist.
E. C. Carlyle, M.S., Assistant Chemist.
T. L. Ogier, B.S., Assistant Chemist.
ATHAN J. STERGES, M.S., Assistant Chemist.
Waldo H. Walker, Assistant Chemist. VELMA GRAHAM, Assistant Chemist. RAY TREICHLER, M.S., Assistant Chemist. JEANNE F. DEMOTTIER, Assistant Chemist. RALPH L. SCHWARTZ, B.S., Assistant Chemist. C. M. POUNDERS, B.S., Assistant Chemist.

Horticulture:

S. H. YARNELL, Sc.D., Chief.
*L. R. HAWTHORN, M.S., Horticulturist.
H. M. REED, M.S., Horticulturist.
J. F. Wood, B.S., Horticulturist.
L. E. BROOKS, B.S., Horticulturist.

Range Animal Husbandry:

J. M. Jones, A.M., Chief; Sheep and Goat Investigations.

B. L. WARWICK, Ph.D., Animal Husbandman; Breeding Investigations

S. P. Davis, Wool Grader.

Entomology:

F. L. THOMAS, Ph.D., Chief; State Entomologist.

H. J. REINHARD, B.S., Entomologist. R. K. Fletcher, Ph.D., Entomologist. W. L. Owens, Jr., M.S., Entomologist. J. N. Roney, M.S., Entomologist.

J. C. GAINES, JR., M.S., Entomologist. S. E. Jones, M.S., Entomologist.

F. F. BIBBY, B.S., Entomologist. S. W. CLARK, B.S., Entomologist.

*E. W. Dunnam, Ph.D., Entomologist.

*R. W. Moreland, B.S., Assistant Entomologist.

^{*} In co-operation with U. S. Department of Agriculture.

CECIL E. HEARD, B.S., Chief Foulbrood Inspector.

C. SIDDALL, B.S., Foulbrood Inspector.

S. E. McGregor, B.S., Foulbrood Inspector.

Agronomy:

E. B. REYNOLDS, Ph.D., Chief.

R. E. Karper, M.S., Agronomist; Grain Sorghum Research. P. C. Mangeldorf, Sc.D., Agronomist; Corn and Small Grain Investigations.

D. T. KILLOUGH, M.S., Agronomist; Cotton Breeding.

H. E. REA, B.S., Agronomist; Cotton Root Rot Investigations.

B. C. LANGLEY, M.S., Agronomist.

Publications:

A. D. JACKSON, Chief.

Veterinary Science:

M. Francis, D.V.M., Chief; Dean, School of Veterinary Medicine.

H. SCHMIDT, D.V.M., Veterinarian; Acting Chief. I. B. BOUGHTON, D.V.M., Veterinarian.

W. T. HARDY, D.V.M., Veterinarian. *F. P. MATTHEWS, M.S., D.V.M., Veterinarian.

Plant Pathology and Physiology:

J. J. TAUBENHAUS, Ph.D., Chief. W. N. EZEKIEL, Ph.D., Plant Pathologist and Laboratory Technician. W. J. BACH, M.S., Plant Pathologist.

C. H. Rogers, Ph.D., Plant Pathologist.

Farm and Ranch Economics:

L. P. GABBARD, M.S., Chief.

W. E. PAULSON, Ph.D., Marketing Research Specialist. C. A. Bonnen, M.S., Farm Management Research Specialist. *A. C. Magee, M.S., Farm Management. *W. R. NISBET, B.S., Ranch Management.

Rural Home Research:

JESSIE WHITACRE, Ph.D., Chief.

MARY ANNA GRIMES, M.S., Textile and Clothing Specialist.

ELIZABETH D. TERRILL, M.A., Nutrition Specialist.

Soil Survey:

*W. T. Carter, B.S., Chief. E. H. Templin, B.S., Soil Surveyor. A. H. Bean, B.S., Soil Surveyor. R. M. Marshall, B.S., Soil Surveyor.

Botany:

V. L. Cory, M.S., Acting Chief. SIMON E. WOLFF, M.S., Botanist.

^{*} In co-operation with U. S. Department of Agriculture,

Swine Husbandry:

FRED HALE, M.S., Chief.

Dairy Husbandry:

O. C. COPELAND, M.S., Dairy Husbandman.

Poultry Husbandry:

R. M. SHERWOOD, M.S., Chief. J. R. Couch, B.S., Assistant Poultry Husbandman.

Agricultural Engineering:

H. P. Smith, M.S., Chief.

Main Station Farm:

G. T. McNess, Superintendent.

Apiculture; (San Antonio)

H. B. Parks, B.S., Chief. A. H. Alex, B.S., Queen Breeder.

Feed Control Service:

F. D. Fuller, M.S., Chief.
James Sullivan, Assistant Chief.
S. D. Pearce, Secretary.
J. H. Rogers, Feed Inspector.
K. L. Kirkland, B.S., Feed Inspector.
W. D. Northcutt, Jr., B.S., Feed Inspector.
Sidney D. Reynolds, Jr., Feed Inspector.
P. A. Moore, Feed Inspector.
E. J. Wilson, B.S., Feed Inspector.

SUBSTATIONS

No. 1, Beeville, Bee County:

R. A. HALL, B.S., Superintendent.

No. 2, Lindale (near Tyler), Smith County:

P. R. JOHNSON, M.S., Superintendent. *B. H. HENDRICKSON, B.S., Soil Erosion. *R. W. BAIRD, B.S., Associate Agricultural Engineer.

No. 3, Angleton, Brazoria County:

R. H. Stansel, M.S., Superintendent. H. M. Reed, M.S., Horticulturist.

No. 4, Beaumont, Jefferson County:

R. H. Wyche, B.S., Superintendent. *H. M. Beachell, B.S., Junior Agronomist.

^{*}In cooperation with U. S. Department of Agriculture.

No. 5, Temple, Bell County:

HENRY DUNLAVY, M.S., Superintendent.

H. ROGERS, Ph.D., Plant Pathologist.
H. E. REA, B.S., Agronomist; Cotton Root Rot Investigations.
SIMON E. WOLFF, M.S., Botanist; Cotton Root Rot Investigations.

*H. V. Geib, M.S., Soil Erosion. *H. O. Hill, B.S., Junior Civil Engineer.

No. 6, Denton, Denton County:

P. B. Dunkle, B.S., Superintendent.

*I. M. ATKINS, B.S., Junior Agronomist.

No. 7. Spur, Dickens County:

R. E. DICKSON, B.S., Superintendent. B. C. Langley, M.S., Agronomist.

No. 8, Lubbock, Lubbock County:

D. L. Jones, Superintendent.

Frank Gaines, Irrigationist and Forest Nurseryman.

No. 9, Balmorhea, Reeves County:

J. J. BAYLES, B.S., Superintendent.

No. 10, Feeding and Breeding Station, near College Station, Brazos County:

R. M. Sherwood, M.S., Animal Husbandman in Charge of Farm.

L. J. McCall, Farm Superintendent.

No. 11, Nacogdoches, Nacogdoches County:

H. F. Morris, M.S., Superintendent.

*No. 12, Chillicothe, Hardeman County:

J. R. QUINBY, B.S., Superintendent.

*J. C. Stephens, M.A., Assistant Agronomist.

No. 14, Sonora, Sutton-Edwards Counties:

W. H. DAMERON, B.S., Superintendent. I. B. BOUGHTON, D.V.M., Veterinarian. W. T. HARDY, D.V.M., Veterinarian.

V. L. Cory, M.S., Grazing Research Botanist. *O. G. BABCOCK, B.S., Assistant Entomologist.

O. L. CARPENTER, Shepherd.

No. 15, Weslaco, Hidalgo County:

W. H. Friend, B.S., Superintendent. SHERMAN W. CLARK, B.S., Entomologist.

W. J. BACH, M.S., Plant Pathologist.

J. F. Wood, B.S., Horticulturist.

^{*} In co-operation with U. S. Department of Agriculture.

No. 16, Iowa Park, Wichita County:

- C. H. McDowell, B.S., Superintendent.
- L. E. Brooks, B.S., Horticulturist.

No. 19, Winterhaven, Dimmit County:

- E. Mortensen, B.S., Superintendent. *L. R. Hawthorn, M.S., Horticulturist.

Members of the Faculty of the School of Agriculture Carrying Co-operative Projects with the Station

- G. W. Adriance, Ph.D., Professor of Horticulture.
- S. W. BILSING, Ph.D., Professor of Entomology.

- S. W. Bilsing, Ph.D., Professor of Entomology.
 A. L. Darnell, M.A., Professor of Dairy Husbandry.
 W. R. Horlacher, Ph.D., Professor of Genetics.
 V. P. Lee, Ph.D., Professor of Marketing and Finance.
 A. K. Mackey, M.S., Professor of Animal Husbandry.
 D. Scoates, A.E., Professor of Agricultural Engineering.
 F. R. Brison, M.S., Associate Professor of Horticulture.
 J. H. Knox, M.S., Associate Professor of Animal Husbandry.
 J. S. Mogford, M.S., Associate Professor of Agronomy.

THE ENGINEERING EXPERIMENT STATION

- F. C. Bolton, M.S., Dean, School of Engineering. F. E. GIESECKE, M.E., Ph.D., Director. P. J. A. Zeller, B.S., Research Associate. W. H. Badgett, B.S., Research Assistant.

ADVISORY COUNCIL

- J. B. BAGLEY, B.A., Professor of Textile Engineering.
 C. W. CRAWFORD, M.S., Professor of Mechanical Engineering.
 C. C. HEDGES, Ph.D., Professor of Chemistry and Chemical Engineering.
- M. C. Hughes, E.E., Professor of Electrical Engineering. J. B. Joyce, B.S., Professor of Petroleum Engineering.
- ERNEST LANGFORD, M.S., Professor of Architecture.
- J. T. Lonsdale, Ph.D., Professor of Geology.
 J. J. Richey, C.E., Professor of Civil Engineering.
 D. Scoates, A.E., Professor of Agricultural Engineering.
- O. W. SILVEY, Ph.D., Professor of Physics.
- E. W. Steel, C.E., Professor of Municipal and Sanitary Engineering.

THE EXTENSION SERVICE

STAFF (As of January 1, 1932)

Administration:

O. B. MARTIN, Director.

H. H. WILLIAMSON, Vice-Director and State Agent.
MILDRED HORTON, State Home Demonstration Agent.

BESS EDWARDS, Assistant State Home Demonstration Agent.

W. H. DARROW, Editor Extension Publications.

MRS. MINNIE FISHER CUNNINGHAM, Associate Editor.

^{*} In co-operation with U. S. Department of Agriculture.

D. L. Weddington, Chief Clerk. H. E. Randolph, Bookkeeper. Mrs. Lilla Graham Bryan, Librarian.

Farm Demonstration Work:

GEORGE E. ADAMS, District Agent. M. R. BENTLEY, Agricultural Engineer. R. H. Bush, Special Agent. A. W. Buchanan, District Agent. PAUL A. CUNYUS, Assistant Poultry Husbandman. John R. Edmonds, District Agent. E. R. Eudaly, Extension Dairy Husbandman. STERLING C. Evans, District Agent. E. N. Holmgreen, Poultry Husbandman. GEORGE W. JOHNSON, District Agent. JOHN H. JONES, Agent in Animal Husbandry. R. R. Lancaster, District Agent. John W. Luker, Dairy Husbandman. E. A. MILLER, Agronomist. G. W. R. NISBET, Agent in Animal Husbandry.
G. W. Orms, District Agent.
M. T. Payne, State Boys' Club Agent.
R. W. Persons, District Agent.
E. M. REGENBRECHT, Swine Husbandman.
R. R. REPPERT, Entomologist.
L. E. Reppergul, Hesticulturist J. F. Rosborough, Horticulturist. CHAS. W. SIMMONS, Forester. A. L. SMITH, Animal Husbandman. ROY W. SNYDER, Meat Specialist.
J. L. THOMAS, Dairyman.
L. C. WHITEHEAD, Leader, Rodent Control.
T. B. Wood, District Agent.

Home Demonstration Work:

MRS. DORA R. BARNES, Specialist in Clothing.
MRS. MAGGIE W. BARRY, Sociologist Rural Women's Organization.
GERTRUDE L. BLODGETT, District Agent.
JENNIE CAMP, District Agent.
BENNIE CAMPBELL, District Agent.
MRS. BERNICE CLAYTOR, Specialist in Home Improvement.
INEZ DERRYBERRY, Specialist in Landscape Gardening.
MINNIE MAE GRUBBS, District Agent.
SADIE HATFIELD, District Agent.
MAMIE LEE HAYDEN, Specialist in Home Industries.
KATE ADELE HILL, District Agent.
ZETHA MCINNIS, Specialist in Home Industries.
MYRTLE MURRAY, District Agent.
MRS. LEOLA COX SIDES, Nutritionist.
HELEN H. SWIFT, District Agent.

Negro Extension Work:

C. H. Waller, State Leader. H. S. Estelle, District Agent. Mrs. Iola W. Rowan, District Agent.

THE TEXAS FOREST SERVICE

Administration:

E. O. SIECKE, B.A., B.S.F., Director.

R. F. Balthis, B.S.A., M.S., Assistant State Forester.

WM. A. NORMAN, Chief Clerk

Division of Forest Protection:

W. E. WHITE, B.S., Lufkin, Chief.

I. C. Burroughs, M.S.F., Lufkin, Assistant Chief. I. H. Jones, B.S.F., Lufkin, Assistant Forester.

W. O. Durham, Lufkin, Inspector. J. M. TURNER, Kirbyville, Inspector.

E. B. Long, Willis, Inspector.
B. D. HAWKINS, Woodville, Inspector.

Forty patrolmen, eight lookout men and eleven smokechasers on duty seven months annually.

One hundred and thirteen forest guards on annual retainer basis.

Division of Forest Management:

C. B. Webster, M.S.F., Chief.

V. V. Bean, Kirbyville, Superintendent, Kirbyville State Forest.

H. A. Budde, Conroe, Superintendent, Conroe State Forest.

Division of Farm Forestry:

C. W. SIMMONS, M.F., Farm Forester. (In cooperation with the Extension Service.)

ADMINISTRATION OF STATE LAWS

Fertilizer Law:

G. S. Fraps, Ph.D., State Chemist.

S. E. Asbury, M.S., Assistant State Chemist.

W. H. WALKER, Assistant Chemist.

T. L. OGIER, B.S., Assistant Chemist.

Foulbrood Law:

F. L. Thomas, Ph.D., State Entomologist. C. E. Heard, B.S., Chief Foulbrood Inspector. C. Siddall, B.S., Foulbrood Inspector.

S. E. McGregor, B.S., Foulbrood Inspector.

Forestry Law:

Administered by the Director of the Texas Forest Service.

Feed Control Law:

Administered by the Director of the Agricultural Experiment Station.

Part II

GENERAL INFORMATION

LOCATION

The Agricultural and Mechanical College of Texas is located at College Station, Brazos County, 100 miles north of Houston and 160 miles south of Dallas. It is served by the Southern Pacific and the Missouri Pacific railroads, with convenient connections to all parts of the State. A modern system of paved highways through the county also affords direct communication with the principal cities and towns.

College Station is five miles from Bryan, one of the most progressive and prosperous cities of Central Texas. Adequate transportation facilities and the rapid development of the intervening territory have resulted in combining the activities and interests of the two towns into what is essentially one large community, ideal as a residential district and offering unusual educational advantages to the young men of Texas.

HISTORICAL SKETCH

- 1862—July 2. Approval by President Lincoln of the Morrill Act, donating public lands to the several states and territories to provide colleges for the benefit of Agriculture and the Mechanic Arts.
- 1866—November 1. Acceptance of the provisions of the Morrill Act by the Legislature of Texas.
- 1871—April 17. Establishment of the Agricultural and Mechanical College of Texas by Act of the Legislature of Texas. Appropriation of \$75,000 for the Main Building.
- 1871—Sale, at 87 cents per acre, of the 180,000 acres of land scrip received by Texas under the provisions of the Morrill Act. Proceeds of the sale invested in seven per cent gold frontier bonds of the value of \$174,000, which constituted the original endowment of the College.
- 1872—June 20. Location of the College at College Station, Brazos County, on a site of 2416 acres donated to the State by the citizens of the county.
- 1874—April 2. Additional appropriation of \$40,000 for Main Building.
- 1875—February 8. Appropriation of \$32,000 for erection of Mess Hall.
- 1875—March 9. Passage by the Legislature of Texas of an Act providing for the government of the Agricultural and Mechanical College of Texas.
- 1875—June 1. First meeting, at Bryan, Texas, of the original Board of Directors, Governor Richard Coke, ex-officio Chairman.
- 1876—Passage of the Constitution of 1876, containing provisions for the support and regulation of the Agricultural and Mechanical College of Texas.

- 1876—June 24. Additional appropriation of \$40,000 for completion of buildings, and for equipment and improvements.
- 1876—July 15. Appointment of the first faculty. Thomas S. Gathright, A.M., elected President.
- 1876—Accrued interest of \$35,000 invested in six per cent. state bonds and added to original endowment, making a total of \$209,000.
- 1876—September. Completion of Main Building, cost \$100,000; Gathright Hall (Mess Hall), cost \$38,500; and five residences for professors, cost \$3,000 each.
- 1876-October 4. Formal opening of the College to students.
- 1879—November 24. Appointment of John Garland James as President; reorganization of the faculty and program of instruction; curricula reduced to three years.
- 1883-April 1. Appointment of James R. Cole, A.M., as Acting President.
- 1883—July 19. Appointment of Hardaway Hunt Dinwiddie as Chairman of the Faculty. Office of President abolished.
- 1883—First telephone connection between College Station and Bryan.
- 1887—Appointment of Louis L. McInnis, A.M., as Chairman of the Faculty.
- 1887—Erection of Pfeuffer Hall. Cost \$11,500.
- 1887—Curricula extended to four years.
- 1887—March 2. Passage by Congress of the Hatch Act, providing for the establishment of agricultural experiment stations in the several states.
- 1888—January 25. Establishment of the Texas Agricultural Experiment Station as a Division of the College, under the provisions of the Hatch Act.
- 1888—Erection of Austin Hall. Cost \$11,000.
- 1889—Erection of Assembly Hall. Cost \$27,500. Razed in 1929.
- 1890—June 7. Office of Chairman of the Faculty abolished.
- 1890—July 1. Appointment of Lawrence Sullivan Ross as President, effective February 1, 1891.
- 1890-1891—July 1 to February 1. Service of W. L. Bringhurst, Ph. D., Vice-President and Professor of English, as Acting President.
- 1890—Installation of first electric lighting system.
- 1892—Erection of Ross Hall. Cost \$20,000.
- 1892—Erection of Mechanical Engineering Shops. Cost \$11,500.
- 1893—Erection of President's Home.
- 1893—Erection of first power plant. Cost \$10,000.
- 1895—Erection of Infirmary, now used as an apartment house. Cost \$4,000.
- 1897—Erection of Mess Hall. Cost \$25,000.
- 1898—January 3. Death of President Lawrence Sullivan Ross. Appointment of R. H. Whitlock, M.E., as Acting President.
- 1898—July 1. Appointment of L. L. Foster as President.
- 1899-Erection of Foster Hall. Cost \$28,000.
- 1899-Passage by the Legislature of Texas of the Texas Fertilizer Law, to

- be administered by the Professor of Chemistry in the Agricultural and Mechanical College of Texas.
- 1900—Erection of Agricultural Building, now Science Hall. Cost \$31,000.
- 1900—June 18 to July 28. First Summer Session; no further summer sessions until 1909.
- 1900—Construction of sewage disposal plant, designed by James C. Nagle, Head of the Department of Civil Engineering.
- 1901—Erection of New Power Plant. Cost \$17.000.
- 1901—December 2. Death of President L. L. Foster. Appointment of R. H. Whitlock, M.E., as Acting President.
- 1902-April 7. Appointment of David F. Houston, A.M., LL.D., as President.
- 1902—Erection of Chemistry and Veterinary Building. Cost \$31,000.
- 1904—Erection of Textile Engineering Building. Cost of building \$31,000; equipment \$20,000.
- 1905—July 14. Passage by the Legislature of Texas of the Texas Feed Law; administration of the Law placed in the hands of the Board of Directors of the College, and by them delegated to the Feed Control Service of the Agricultural Experiment Station.

 The Law amonded in 1907, 1911, and 1917, and codified in 1925.
 - The Law amended in 1907, 1911 and 1917, and codified in 1925.
- 1905—September 8. Appointment of H. H. Harrington, M.S., LL.D., as President.
- 1906—March 16. Passage by Congress of the Adams Act, for increased support of Agricultural Experiment Stations.
- 1907—March 4. Passage by Congress of the Nelson Act, for the further endowment of Colleges of Agriculture and the Mechanic Arts.
- 1908—Erection of Goodwin Hall. Cost \$53,500.
- 1908—Erection of Natatorium, now used as a laboratory for veterinary Anatomy. Cost \$10,000.
- 1908—Erection of Veterinary Hospital. Cost, including improvements made in 1922, \$18,000.
- 1908-Appointment of Robert Teague Milner as President.
- 1909—Erection of Civil Engineering Building. Cost \$65,000.
- 1909-Erection of Agricultural Experiment Station Building. Cost \$34,000.
- 1909—Summer Session re-established.
- 1911—Erection of Legett Hall. Cost \$75,000.
- 1911—Erection of Milner Hall. Cost \$75,000.
- 1911—Establishment of the School of Agriculture.
- 1911—Establishment of the School of Engineering.
- 1911—Revision by the Legislature of Texas of the Texas Fertilizer Law, originally passed in 1899; administration of the Law placed in the hands of the Chemist of the Agricultural Experiment station who was designated by the Law as State Chemist.
- 1911-November 11. Mess Hall destroyed by fire.
- 1912—May 27. Main Building destroyed by fire.

- 1912—Erection of Electrical Engineering Building. Cost \$75,000.
- 1912—Erection of Mitchell Hall. Cost \$75,000.
- 1912—Organization of the Agricultural Extension Service as a division of the College.
- 1912-1914—Erection of Academic Building on the site of the original main building. Cost \$225,000.
- 1912-1926-Erection of Bernard Sbisa Hall. Cost \$205,000.
- 1913—Purchase of 74 acres for the use of the Agricultural Experiment Station. Cost \$2200.
- 1913—March 27. Passage by the Legislature of Texas of the law creating the office of the State Entomologist, and locating the office at the Agricultural and Mechanical College of Texas.
- 1913—August 18. Appointment of Charles Puryear, M.A., C.E., LL.D., as Acting President.
- 1914—Erection of Young Men's Christian Association Building. Cost \$120,000.
- 1914—Organization of the Texas Engineering Experiment Station.
- 1914—Passage by Congress of the Smith-Lever Act, for the development of Extension Work in Agriculture.
- 1914—August 25. Appointment of William Bennett Bizzell, Ph.D., LL.D., as President.
- 1915—March 31. Passage by the Legislature of Texas of an Act creating the office of State Forester; jurisdiction over state forestry activities given to the Board of Directors of the Agricultural and Mechanical College of Texas.
- 1915-1917—Erection of new Power Plant. Cost of building and equipment, \$175,000.
- 1915-1920—Erection of Laundry Building. Cost \$25,000.
- 1916—Establishment of the School of Veterinary Medicine.
- 1916—Summer Session reorganized.
- 1916—October 19. Establishment at the College of a Senior Unit of the Reserve Officers Training Corps, under the provisions of the National Defense Act of June 3, 1916.
- 1916—Erection of Hospital. Cost \$58,000.
- 1916-1923-1926—Erection of Dairy Barns and Creamery. Total cost \$57,000.
- 1917-Erection of Animal Husbandry Pavilion. Cost \$56,000.
- 1917—Erection of Serum Laboratory. Cost \$30,000.
- 1917—Erection of Horticultural Greenhouse. Cost \$10,600.
- 1917—Purchase of 192 acres additional land for the use of the Agricultural Experiment Station. Cost \$5700.
- 1917—Establishment of John Tarleton Agricultural College, Stephenville, and North Texas Agricultural College, Arlington, as Junior branches of the Agricultural and Mechanical College of Texas.
- 1917—July 1. Passage by Congress of the Smith-Hughes Act, for the training of teachers of agriculture, trades and industries, and home economics.

- 1918-Erection of Guion Hall. Cost \$113,500.
- 1918—Erection of Bizzell Hall. Cost \$90,000.
- 1918—Erection of Francis Hall. Cost \$92,000.
- 1918—Erection of Administration Building for Agricultural Experiment Station. Cost \$90,000.
- 1918—Designation of the Agricultural and Mechanical College of Texas as an institution for training teachers of agriculture and the trades and industries, under the provisions of the Smith-Hughes Act.
- 1918—Purchase of 170 acres for the use of the Department of Agricultural Engineering. Cost \$8500.
- 1919—Purchase of 106 acres additional land for the use of the Department of Agricultural Engineering. Cost \$2600.
- 1919—Erection of Mechanical Engineering Building. Cost \$76,000.
- 1920—Erection of Physics Building. Cost \$100,000.
- 1920—Erection of Military Science Building. Cost \$17,500.
- 1920-1931—Erection of Military Barracks and Barns. Cost \$38,500.
- 1920—December 5. Mechanical Engineering Shops destroyed by fire.
- 1922—Erection of New Mechanical Engineering Shops. Cost \$150,000.
- 1922—Erection of Agricultural Building. Cost \$225,000.
- 1922—Erection of College Utilities Building. Cost \$20,000.
- 1923—Establishment of the School of Vocational Teaching.
- 1923—Erection of Assembly Hall. Cost \$40,000.
- 1923-Erection of Baseball Grandstand. Cost \$7,500.
- 1923-1927—Erection of 165 one-room frame cottages to supplement existing dormitories. Cost \$43,000. Use of these cottages discontinued, 1931.
- 1924—Organization of the School of Arts and Sciences.
- 1924—Organization of the Graduate School.
- 1924 Erection of Memorial Gymnasium. Cost \$140,000.
- 1924—Erection of Extension Service Building. Cost \$100,000.
- 1924—Old Agricultural Building remodeled for use as a Science Hall. Cost \$15,000.
- 1924—Erection of College Greenhouse. Cost \$14,000.
- 1924—Erection of College Warehouse. Cost \$10,000.
- 1924—Erection of Post Office Building. Cost \$4,000.
- 1925—February 24. Passage by Congress of the Purnell Act, providing an increased annual appropriation for Agricultural Experiment Stations.
- 1925—September 1. Appointment of Thomas Otto Walton, LL.D., as President.
- 1925-Erection of Graduate Hall. Cost \$29,000.
- 1925-Erection of Aggieland Inn. Cost \$62,000.
- 1925—Erection of Exchange Store. Cost \$26,000.
- 1925—Erection of Poultry Husbandry Building. Cost \$9,000.
- 1925—Purchase of 1700 acres of forest land in East Texas for the use of the Forest Service. Cost \$10,200.

- 1926—Purchase of 1627 acres of additional forest land in East Texas for the use of the Forest Service. Cost \$10,800.
- 1926—Purchase of 150 acres additional land for the use of the Agricultural Experiment Station. Cost \$30,000.
- 1926—May 12. Activities of the State Forester organized into the Texas Forest Service, and made a major division of the work of the College.
- 1926—Erection of Genetics Laboratory. Cost \$3,500.
- 1927-1929—Erection of Memorial Stadium. Cost \$350,000.
- 1928-Erection of Law Hall. Cost \$155,000.
- 1928—Erection of Puryear Hall. Cost \$155,000.
- 1929—Gift from John Henry Kirby, Houston, Texas, of 600 acres of forest land in Tyler County; income to go to the Loan Fund of the Association of Former Students.
- 1929—Erection of Auxiliary Gymnasium. Cost \$8,000.
- 1929-1932—Erection of new Chemistry Building. Cost \$400,000.
- 1930—Erection of Cushing Memorial Library on site of original Chemistry Building. Cost \$225,000.
- 1930—Erection of Hart Hall on site of original Assembly Hall. Cost \$215,000.
- 1930—Erection of temporary Armory. Cost \$9,500.
- 1931-Erection of Walton Hall. Cost \$250,000.
- 1931—Purchase of 834 acres for the use of the School of Agriculture. Cost \$20,400.
- 1931—Passage by the Legislature of Texas of an Act providing for the division of the income from the University of Texas endowment, on a basis of two-thirds to the University of Texas and one-third to the Agricultural and Mechanical College of Texas; and a further provision enabling the two institutions to borrow from the endowment for immediate building purposes.
- 1932—Beginning of enlarged building program, including erection of Agricultural Engineering Building, Petroleum Engineering and Geology Building, Swimming Pool, Animal Industries Building, Veterinary Medicine Buildings, Architecture and Landscape Art Building, and Administration Building. Approximate cost \$1,500,000.
- 1932—Gift from Mr. and Mrs. Robert M. McFarlin, Tulsa, Oklahoma, of 7000 acres of improved farm lands in Kaufman, Ellis and Navarro Counties, valued at \$1,500,000; income to go to the Loan Fund of the Association of Former Students.

GOVERNMENT AND ADMINISTRATION

The government of the College is vested in a Board of nine Directors, appointed by the Governor for terms of six years.

The immediate regulation and direction of the affairs of the College are delegated by the Board of Directors to the President and the Faculty.

ORGANIZATION

The work of the College is carried on in the following divisions:

(1) Resident Teaching.

The School of Agriculture.

The School of Arts and Sciences.

The School of Engineering.

The School of Veterinary Medicine.

The School of Vocational Teaching.

The Graduate School.

The Summer Session.

(2) Research.

The Agricultural Experiment Station. The Engineering Experiment Station.

(3) Extension.

The Extension Service.

(4) Forestry.

The Forest Service.

DEPARTMENTS

There are forty-two departments of instruction, listed in Part IV under the heading "Courses of Instruction by Departments."

For administrative purposes the departments of instruction are assigned to the several schools as follows:

School of Agriculture.—Accounting and Statistics, Agricultural Economics. Agricultural Engineering, Agronomy, Animal Husbandry, Dairy Husbandry. Entomology, Farm and Ranch Management, Forestry, Genetics, Horticulture, Landscape Art, Marketing and Finance, Poultry Husbandry, Rural Sociology.

School of Arts and Sciences.—Biology, Chemistry, Economics, English, Geology, History, Mathematics, Military Science and Tactics, Modern Languages, Physical Education, Physics.

School of Engineering.—Architecture, Chemical Engineering, Civil Engineering, Engineering Drawing, Electrical Engineering, Engineering Research, Mechanical Engineering, Municipal and Sanitary Engineering, Petroleum Engineering, Textile Engineering.

School of Veterinary Medicine.—Veterinary Anatomy, Veterinary Medicine and Surgery, Veterinary Pathology, Veterinary Physiology and Pharmacology.

School of Vocational Teaching.—Agricultural Education, Industrial Education, Rural Education.

ACADEMIC REGULATIONS

Certain academic regulations have been set up by the Faculty of the College for the purpose of assisting the student to secure the maximum benefit

from his studies. These regulations, a copy of which is given to the student when he enters the College, serve as a guide in such important matters as choice of courses and subjects, methods of study, attendance on classes, examinations, promotion and graduation.

By means of reports at regular intervals, frequent conferences with the Deans, the Registrar, and members of the teaching staff, the authorities of the College keep in close touch with the student's progress, and such advice and counsel is offered from time to time as seems justified in each case. For failure to keep up with his studies, the student may at any time be dropped from the rolls of the College.

DEGREES OFFERED

On the basis of resident study the following degrees are offered by the College:

Bachelor of Arts (B.A.)

Bachelor of Science (B.S.)

Doctor of Veterinary Medicine (D.V.M.)

Master of Science (M.S.)

In addition, the following professional degrees in engineering are offered to graduates of the College on the basis of acceptable professional experience:

Agricultural Engineer (A.E.)

Chemical Engineer (Ch.E.)

Civil Engineer (C.E.)

Electrical Engineer (E.E.)

Mechanical Engineer (M.E.)

The appropriate degree and the diploma of the College will be conferred upon the student who satisfactorily completes one of the regular courses of study leading to a degree, as outlined on subsequent pages, and who fulfills the following additional requirements:

- (a) He must earn as many grade points as there are credit hours in the course of study pursued. The method of securing grade points is explained in the description of the grading system, below.
 - (b) He must have settled all financial obligations to the College.
- (c) He must be formally recommended for graduation by the Faculty after consideration of his complete record.

No degree will be conferred without a residence of at least one year in the College.

*THE GRADING SYSTEM

The student's standing in his studies is expressed by grades based upon recitations, written exercises and tests, laboratory work and final examinations.

^{*} Prior to September, 1932, the passing grades were: A, Excellent; B, Good; C, Pass. The grade D was a condition, and the grade E a failure.

There are four passing grades, A, B, C, D, representing degrees of scholastic achievement and grade points as follows:

A—Excellent; 3 grade points per semester hour.

B—Good; 2 grade points per semester hour.

C-Fair; 1 grade point per semester hour.

D-Pass; no grade points.

There are two grades, E (Condition) and F (Failure), representing work of distinctly unsatisfactory quality. The grade F may be made up only by repeating the course in class. The grade E is temporary and may be removed by authorized re-examination within the succeeding semester; if not so removed it automatically becomes an F.

The temporary grade Inc. (Incomplete) indicates that the student has completed the subject except for a small amount of work in the laboratory, drafting room or field. The grade is given only when the work already completed has been of a quality acceptable for credit in the subject. The privilege of completing the remaining work is limited to the end of the succeeding semester. If not completed within that time the final grade is F, and the student must repeat the course in class in order to receive credit.

In order to satisfy the grade point requirement for graduation the student must make an average of C or better throughout his college course.

HONORS

At the end of each session, students who have no grade below B and who have earned at least 90 grade points during the session are designated as "Distinguished Students."

REPORTS

Semester Reports: At the close of each semester a report of the student's work during the semester is sent directly to the parent or guardian.

Preliminary Reports: A preliminary report of the student's progress is sent out on December 1.

Unsatisfactory Work: At stated intervals during the session the Deans receive reports from the members of the teaching staff on all students doing unsatisfactory work. These reports form the basis for personal conferences with the students concerned, and for special notices to parents and guardians.

Annual Report: On September 1, a report is sent to each student showing his scholastic standing in his course of study, the total number of grade points earned and his classification for the ensuing session.

Reports to High Schools: At the close of the first semester a report is sent to each accredited high school showing the grades made by the Freshmen entering the College from that school.

LIBRARY

The Library, erected in 1930 at a cost of \$250,000, contains approximately 40,000 volumes exclusive of the files of the Federal and State documents.

While the Library has hitherto been developed chiefly along reference lines a very good reading collection has now been accumulated, and the careful selection of new books keeps the collection abreast of contemporary thought. With the exception of books of general reference, current periodicals, and books temporarily reserved by certain departments for required reading, all books are loaned for home use for a period of two weeks with the privilege of renewal for the same length of time.

About two hundred standard magazines, reviews, and technical journals are received besides the leading newspapers of the State and journals of national importance. Files are kept of the most important of these periodicals.

The Library is a United States designated depository and receives copies of all Federal publications. A card index is maintained of all publications of the United States Department of Agriculture and of the State Experiment Stations.

Having recently absorbed the extensive collection of books and documents accumulated by the Agricultural Experiment Station, the Library now offers unusual facilities for research in the field of agriculture.

On week days and holidays the Library is open from 8 a. m. to 5 p. m. and from 7 p. m. to 10 p. m. The Sunday hours are from 7 p. m. to 10 p. m.

PUBLICATIONS

The following publications are issued by the College:

The Bulletin of the Agricultural and Mechanical College of Texas.— Issued eight times a year; includes the bulletins of the Texas Engineering Experiment Station, the Catalogue of the College, the President's Annual Report, the announcement of the Summer Session, and miscellaneous publications.

Bulletins of the Agricultural Experiment Station.—These bulletins are issued from time to time and contain reports of the results of the investigations by the Station of problems in agriculture peculiar to Texas.

Extension Service Bulletins.—The Extension Service publishes bulletins on subjects of popular interest in the fields of Agriculture and Home Economics.

In addition there is issued twice a month an Extension Service News Letter of seasonal advice, and numerous circulars from time to time covering both matters of general agricultural interest and matters of unexpected development.

The Daily Bulletin.—Issued daily during the regular session; carries official notices and other announcements.

The Texas Aggie.—Published by the Association of Former Students to keep the alumni informed as to the progress and activities of the College.

Student Publications. 1. The Battalion, a weekly devoted to student activities and interests.

2. The Longborn, the College Annual, published by the Senior Class.

- 3. The Texas Aggie Countryman.—A monthly, published by the students of the School of Agriculture.
- 4. The Technoscope.—A quarterly, published by the students of the School of Engineering.

RELIGIOUS ACTIVITIES

Religious Services: Religious services are held in the College Chapel each Sunday morning. Sunday Schools for Bible study are organized by the several denominations and afford additional help in the way of ethical training. The services on Sunday evening are conducted by the student pastors assigned by their respective denominations to work with students of the College. Every effort is made through lectures, conferences, and personal example to develop and protect good morals in the young men attending the institution.

Young Men's Christian Association: The Young Men's Christian Association occupies a modern well-equipped building in which ample provision is made for the meetings and other activities of the Association, for Bible Study, for social gatherings and for entertainments. The Association carries on a varied and vigorous program of religious group meetings, discussion groups in the dormitories, and similar activities tending to build up the moral and spiritual life of the students. Particular emphasis is placed upon work with Freshmen.

Courses in Religious Education: The Synod of Texas, Presbyterian Church, U.S., and the Huntsville District, Methodist Episcopal Church, South, have been authorized to offer courses in religious education open to students of Junior and Senior Standing.

Under this plan the following courses are now offered, each carrying credit of three semester hours:

Religious Education 301: Life of Christ and Establishment of the Church. Religious Education 302: The Early Church and Development of Christian Doctrine.

Religious Education 303: Early Old Testament Life and Religion.

Religious Education 304: Later Old Testament Life and Religion.

A maximum of six semester hours in Religious Education courses may be credited toward a degree.

DISCIPLINE

Discipline is administered by the Commandant. The regulations are designed to secure consistent conformity to the following

General Requirements.—Every student is expected at all times to conform to the ordinary rules of gentlemanly conduct; to be truthful; to respect the rights of others; to be punctual and regular in attendance upon all required exercises; to apply himself diligently to his studies; and to have due regard for the preservation of College property.

HAZING

Hazing is forbidden by the law of the State and by the College regulations.

RESERVE OFFICERS' TRAINING CORPS

The act of Congress of June 3, 1916, known as the National Defense Act, provides for the establishment in civil educational institutions of units of the Reserve Officers' Training Corps (R. O. T. C.). The object of the Reserve Officers' Training Corps is best stated by the War Department in its Army Regulations No. 145-10 which governs the R. O. T. C. and is as follows:

Object.—The primary object of the Reserve Officers' Training Corps is to provide systematic military training at civil educational institutions for the purpose of qualifying selected students of such institutions for appointment as reserve offices in the military forces of the United States; the Reserve Officers' Training Corps, is therefore, an important agency in making effective the plan for national defense.

Although the primary object of the Reserve Officers' Training Corps is, as stated above, to produce trained officers for the Reserve Officers' Corps, it is recognized that the basic military training received by the students who for various reasons fail to complete their qualification course for the Officers' Reserve Corps is of considerable military value to the Government.

Educational Aim.—The Reserve Officers' Training Corps adds to the educational resources of schools and colleges and gives to the student a training which will be as valuable to him in his industrial or professional career as it would be should the Nation call upon him to act as a leader in its defensive forces.

Military Organization.—All military instruction is under the immediate charge of the Professor of Military Science and Tactics. The officers of the Cadet Corps are selected from the Senior class, non-commissioned officers from the Junior and Sophomore Classes.

The Cadet corps consist of units of the Infantry, Cavalry, Field Artillery, Coast Artillery, Engineer Corps, and Signal Corps branches of the Service. The instruction is divided into basic and advanced courses. When entered upon, these courses become prerequisite to graduation and carry credits corresponding to other college work.

Basic Course.—All students of the College who are citizens of the United States and who are physically fit are required to take the basic course unless excused by the Faculty for one of the following reasons:

- (a) A minimum of six months' service in the Army, Navy, or Marine Corps during the World War.
 - (b) Completion of the basic course in a senior unit elsewhere.
- (c) The presentation of advanced credits in a considerable number of subjects.

With the exception of those who enter with junior or senior standing,

students who are exempted from the basic course in Military Science must substitute for it other work amounting to four semester hours.

Members of the basic course are not obligated further than to pursue the course diligently and properly care for the equipment and apparatus used in the instruction.

Members of the basic course will be furnished commutation of uniform, which at present time amounts to \$10.00 per year.

Advanced Course.—In order to continue in the R. O. T. C. for the advanced course, i. e., during the Junior and Senior years, the student must be selected by the President of the College and the Professor of Military Science and Tactics, and must obligate himself to attend the advanced course camp as prescribed by the Secretary of War. This course, including the prescribed camp training, when entered upon becomes a prerequisite to graduation.

The student in the advanced course obligates himself:

- (a) To pursue the course while at the College.
- (b) To attend the advanced course camp.
- (c) To take proper care of the equipment furnished him.
- (d) He is expected, though not bound, to accept a commission in the Offices' Reserve Corps, if offered one, unless prevented by unusual conditions. The student in the advanced course receives the following benefits:
 - (a) Commutation of uniform totaling \$40.00 for the two years.
- (b) Subsistence now allowed at 30 cents per day from the beginning of his Junior year to the end of his Senior year, excepting during camp when he is given rations in kind. Commutation of rations will not be paid for more than two years.
- (c) While at camp he will receive 70 cents per day and will also receive transportation to and from camp.
- (d) After graduation he may be eligible for appointment as an officer in the Reserve Corps.
- (e) Honor graduates applying for appointment as second lieutenants, U. S. Army, are exempt from the mental part of the examination for appointment, if such vacancies exist.
- (f) Graduates may be given the opportunity to take competitive examinations for a Regular Army Commission and may be granted exemptions in some subjects.

Eligibility for different branches of the service.

- 1. Signal Corps.—Only students enrolled in the four-year course in Electrical Engineering are eligible. Students taking Electrical Engineering are especially urged to select the Signal Corps Unit. The instruction given in this Unit is very closely allied to the course given by the College in Communication Engineering.
 - 2. Engineer Corps.—Only students enrolling in Architecture, Chemical

Engineering, Civil Engineering, Electrical Engineering, (except those electing Signal Corps), Mechanical Engineering and Petroleum Production Engineering may select the Engineer Corps.

Civil Engineering students are urged to select the Engineer Corps, as the instruction given in that Unit is very closely allied to the instruction given in the Department of Civil Engineering.

3. Other Branches.—Students taking military training who fall in one of the above classes but who do not elect the Signal Corps or the Engineer Corps, and all others will select either the Infantry, the Field Artillery, the Coast Artillery or the Cavalry. Each of these units can accommodate approximately 250 first year students. No student weighing more than 180 pounds will be eligible for enrollment in the Cavalry. Within these limits a student will be given his choice of branches. However, a first and second choice should be made since one unit is often filled up before the others.

Withdrawal From The R. O. T. C.—For satisfactory reasons, upon recommendation of the Professor of Military Science and Tactics, the authorities of the College may discharge members of the R. O. T. C. from such corps and from the necessity of completing the course in military training as a prerequisite to graduation, except in cases involving withdrawal from the advanced course contract.

HEALTH

The College buildings are situated on the crest of a wide divide, with sufficient slope in every direction to insure proper drainage. The health of the student body, as shown by the daily records of the institution, is all that could be expected.

The hospital is a modern brick building, with steam heat, hot and cold shower baths, a capacity of 100 beds, and is equipped with operating room, X-ray and laboratory facilities. There is a staff of one full time physician, a technician and four nurses.

Sanitary work is carried on throughout the entire year with special reference to the eradication of mosquitoes, flies and other disease bearing agencies.

Drinking waten is supplied from artesian wells. The milk supply for the College is obtained mainly from two College dairies which use tested cows and the most modern methods of handling dairy products. Bacterial examinations of both milk and water are made twice monthly in order to detect any contamination or disease producing organisms which might be present.

The dormitories are inspected daily and are kept neat and clean throughout. The rooms are well lighted and comfortable.

Drill, field work, and outdoor sports furnish sufficient and varied exercise and contribute much to the maintenance of health and to proper physical development.

SPORTS AND RECREATION

Systematic physical training is recognized as one of the major aspects of the student's education. Kyle Field, the center of the athletic activities of the College, is one of the best equipped athletic plants in the South, and provides the students of the College with every facility for wholesome exercise. It includes the Memorial Stadium with a seating capacity of 35,000; the Memorial Gymnasium, containing a basket ball court, handball courts, showers, lockers, dressing rooms, class rooms, offices and store rooms, and seats for 3,500 spectators; the Auxiliary Gymnasium, with handball courts, a basket ball court and large rooms for physical training classes; the baseball grand-stand with a seating capacity of 4,000; four football fields, a quarter-mile cinder track with a 220-yard straight a-way, six tennis courts and two baseball diamonds; and an indoor swimming pool, approximately 50 by 100 feet, with all modern facilities, now in course of erection.

Two nine-hole golf courses, adjacent to the College, are available to students.

The College is a member of the Southwest Athletic Conference, and sponsors intercollegiate contests in football, basket ball, baseball, track, tennis, cross-country, golf and swimming.

Numerous games and contests between classes and military organizations on the campus aid in the development of sound bodies, self-control, athletic proficiency, and good sportsmanship. Practically all students take part in some form of organized intramural athletics.

MUSICAL ORGANIZATIONS

. Band.—The cadet band of 125 members furnishes music for occasions of social and military importance, gives open-air concerts in season, plays at review, and leads the corps of cadets in marching to the mess hall. Trips are made during the fall to intercollegiate football contests played away from the College, and a concert tour in the spring to surrounding cities and other colleges. Students desiring to join the band should communicate with Richard J. Dunn, Director, College Station, Texas.

Glee Club.—Students with vocal talent have an opportunity to sing in the A. & M. Glee Club under the direction of a member of the faculty. The club sings regularly at the College Religious Services, and in addition prepares a program of secular music for concert appearances on the campus and away from the College. The membership of the organization numbers about forty students selected by the director after individual try-outs at the beginning of the school year.

LECTURES AND ENTERTAINMENTS

The College offers each year a series of musical and dramatic entertainments, and lectures on pertinent topics by men of recognized authority. Moving pictures are presented at least twice a week by the Y. M. C. A. The

College Little Theater Club provides opportunity for practical training in dramatics. The Department of English sponsors a debating club, under the leadership of the Professor of Public Speaking, which meets teams from other colleges and universities in Texas and surrounding states for discussion of questions of public interest.

THE EXCHANGE STORE

The College operates an exchange store for the purpose of supplying necessary articles to students at the lowest possible cost. The store carries in stock text books, stationery, drawing instruments, regulation articles of the uniform, toilet articles and other supplies. These goods are sold at prices just sufficient to cover cost and operating expenses.

BUILDINGS

The physical plant of the College includes the buildings described below and a number of smaller structures, with a total valuation of approximately \$5,000,000. Equipment and lands of the College represent an additional investment of \$3,000,000.

The Academic Building, erected in 1914, contains the administrative offices of the College and provides class room, laboratory and office space for several academic departments.

The Cushing Memorial Library, erected in 1930, is equipped with the most modern facilities, such as reading rooms, stack rooms, periodical rooms, lounges, offices, and work rooms for the staff and for graduate students. It is named in honor of E. B. Cushing, Class of 1879, a former President of the Board of Directors.

The Agricultural Building, erected in 1922, contains administrative offices for the School of Agriculture, and offices, class rooms, and laboratories for various agricultural departments.

The Agricultural Engineering Building, contains offices, class rooms and laboratories for the study of gas engines, tractors and farm machinery.

The Animal Husbandry Building, erected in 1916, contains a large display area surrounded by concrete seats seating 1600 spectators; also offices and class rooms.

The College Creamery, erected in 1923, contains the dairy laboratories and creamery, which is equipped for the manufacture and distribution of ice cream, butter, cheese and market milk.

The Dairy Barns, erected in 1916 and 1926, are modern milking barns with capacity for 125 cows, feed rooms, milk rooms and offices.

The Poultry Administration Building, erected in 1925, contains egg candling rooms, baby chick brooding rooms, and two class rooms for judging poultry.

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The Chemistry Building, erected in 1929-1932, contains laboratories, class rooms, administrative offices, auditorium and store rooms for the department of Chemistry and Chemical Engineering.

The Military Science Building, erected in 1920, contains offices and class rooms for instruction in Military Science and Tactics.

The Physics Building, erected in 1920, contains offices, class rooms, lecture rooms and completely equipped laboratories.

The Science Building, erected in 1899, was used until 1922 as the Agricultural Building. It was remodeled in 1924 and is now used by the Departments of Biology, Geology, and Entomology.

The Civil Engineering Building, erected in 1909, contains offices, class rooms, drafting rooms and laboratories.

The Electrical Engineering Building, erected in 1912, contains offices, class rooms, drafting rooms and laboratories.

The Mechanical Engineering Building, erected in 1919, contains offices, class rooms, drafting rooms and laboratories.

The Mechanical Engineering Shops Building, erected in 1922, contains a comprehensive layout for the following shop units: cabinet making, pattern making, machine, foundry and mechanical laboratory.

The Textile Engineering Building, erected in 1904, contains offices, carding, spinning, and warp-preparation machinery, weaving, cloth finishing machinery, designing and class rooms.

Francis Hall, erected in 1918, contains offices, class rooms and laboratories for the School of Veterinary Medicine. It is named in honor of Dean Mark Francis.

The Veterinary Hospital, erected in 1903, contains clinic rooms, stalls, dog room, feed rooms, medicine rooms and offices.

The Serum Laboratory, erected in 1917, contains laboratories for the diagnosis of diseases of animals and poultry, and class rooms and laboratories for the teaching of diseases of poultry, and isolation wards for animals used in the veterinary clinic.

The Research Administration Building, erected in 1918, contains administrative offices and laboratories for the research division of the Texas Experiment Station.

The Research Chemistry Building, erected in 1909, is occupied by the divisions of Chemistry, Entomology, Plant Pathology and Physiology of the Texas Experiment Station.

The Extension Service Building, erected in 1924, contains administrative offices, library and mailing rooms for the agricultural extension work.

Ross Hall, erected in 1891, formerly used as a dormitory, but now occupied by the staff of the Engineering Experiment Station.

The Young Men's Christian Association Building, erected in 1914, contains offices, auditorium, lobby, social rooms, bed rooms, swimming pool, locker rooms and billiard parlor.

Guion Hall, erected in 1918, is a modern college auditorium with a seating capacity of 2,000. It is named in honor of Judge John I. Guion, a former president of the Board of Directors.

The Assembly Hall, erected in 1923, contains an auditorium seating 2,000 persons, and a stage, dressing rooms, and other accessories.

The Hospital, erected in 1916, provides adequate accommodations for the needs of the college, including modern equipment and conveniences.

The Stadium, erected in 1927-1929, a concrete stadium on Kyle Field, with a seating capacity of 35,000.

The Memorial Gymnasium, erected in 1924, is primarily designed to house basketball courts as well as offices for the athletic staff and coaches. It contains lockers, shower baths, and other facilities for all field sports, lecture rooms, retiring rooms, examination rooms and heating plant. The basketball section has a seating capacity of about 3,500.

Bernard Sbisa Hall, the College dining hall, erected in 1912, is provided with modern facilities, and has a seating capacity of 2750. It is named in honor of Bernard Sbisa, formerly Supervisor of Subsistence.

Aggieland Inn, erected in 1925, designed as a hotel for the use of guests of the College and other visitors, contains 36 sleeping rooms with baths, a large dining room, and a separate lunch room with kitchen and service equipment.

The Power Plant, erected in 1917, provides heat, light, and ice for College purposes.

The College Utilities Building, completed in 1922, contains the office, supply store and warehouse and part of the shops of the Department of Buildings and College Utilities. The telephone office and the Fire Department are also housed in this building.

The Exchange Store, erected in 1925, is occupied by the retail supply store of the College.

DORMITORIES

All dormitories are screened, well ventilated and provided with sanitary conveniences.

Gathright Hall, erected in 1876; named in honor of Thomas L. Gathright, the first President of the College. Contains 31 rooms.

Pfeuffer Hall, erected in 1887; named in honor of George Pfeuffer, a former President of the Board of Directors. Contains 24 rooms.

Austin Hall, erected in 1888; named in honor of Stephen F. Austin. Contains 24 rooms.

Foster Hall, erected in 1899; named in honor of L. L. Foster, a former President of the College. Contains 53 rooms.

Goodwin Hall, erected in 1908; named in honor of G. I. Goodwin. Contains 79 rooms.

Milner Hall, erected in 1911; named in honor of R. T. Milner, a former President of the College. Contains 102 rooms.

Legett Hall, erected in 1911; named in honor of K. K. Legett, a former President of the Board of Directors. Contains 102 rooms.

Mitchell Hall, erected in 1912; named in honor of Harvey Mitchell. Contains 86 rooms.

Bizzell Hall, erected in 1918; named in honor of W. B. Bizzell, a former President of the College. Contains 66 rooms.

Graduate Hall, erected in 1925, for the use of students of the Graduate School as a dormitory. Contains 32 sleeping and study rooms.

Law Hall, erected in 1928; named in honor of Francis Marion Law, President of the Board of Directors. Contains 108 rooms.

Puryear Hall, erected in 1928; named in honor of Charles Puryear, Deam of the College. Contains 108 rooms.

Hart Hall, erected in 1930; named in honor of L. J. Hart, a former President of the Board of Directors. Contains 146 rooms.

Walton Hall, erected in 1931; named in honor of Thomas Otto Walton President of the College. Contains 176 rooms.

EQUIPMENT

ACCOUNTING AND STATISTICS

The department of Accounting and Statistics has laboratories equippes with calculators, adding machines, slide rules and drawing tables.

AGRICULTURAL ENGINEERING

The agricultural engineering department has special laboratories for farm machinery, farm motors, farm shops, automobiles, tractors and farm home utilities. There is also a drawing room for use of classes in farm buildings, irrigation and drainage. A hundred-acre farm is provided for practical work.

The farm machinery laboratory contains modern farm machinery such as plows, harrows, planters, cultivators, harvesters, threshers, seed cleaners and grinders, which should be in use on Texas farms.

The farm motor and tractor laboratories contains twenty-five farm gas

engines, a number of the latest models of tractors and necessary testing apparatus, together with extra magnetos and carburetors.

The automobile and truck laboratory contains six, eight and twelve cylinder motors, automobiles, trucks, chassis, acetylene welding outfit, special ignition apparatus, storage battery charging and repairing outfit, and surplus magnetos and carburetors.

The farm home utilities laboratory contains a number of isolated electric light plants with their various accessories, home water supply systems and other equipment needed in the farm home.

The farm shop laboratory is supplied with all tools and equipment necessary for teaching this subject.

Equipment for field work in terracing, drainage and irrigation has been provided.

AGRONOMY

The agronomy department has three well equipped laboratories. Two of these are used for instructional purposes in soils, and one for instructional purposes in farm crops.

The main soils laboratory is equipped with a centrifuge, shaking machine, Briggs filter, electric air pumps, torsion balances, chemical balances, drying ovens, hot plates, compound microscopes, evaporators, soil capillary tubes, soil samplers and all the smaller equipment and chemicals for a modern soils laboratory.

The soil fertility laboratory is equipped for specialized instruction in soils for the benefit of advanced students.

For soil survey instruction, the department has five plane tables equipped with alidades; also other miscellaneous equipment.

The farm crops laboratory is equipped for general laboratory instruction in farm crops and for specialized instruction in commercial grain grading. For farm crops the chief items of equipment are standard seed testers, dissecting sets, hand lenses, torsion balances, insect-proof and rat-proof grain bins. Type samples and specimens of all the important field and forage crops are kept in stock for study. For work in grain grading the chief items of equipment are two Brown-Duvel moisture testers, a wild-oat kicker, several complete sets of dockage sieves for determining dockage in the various kinds, classes and grades of grain.

The department has a modern greenhouse 67x25 feet, equipped for soil fertility, farm crops and plant-breeding work. For field study the department has 35 acres of land devoted to demonstration and experimental work in crops and soils. All the important types and varieties of farm crops adapted to this section are grown for field study.

The department maintains a technical library, in which will be found most of the standard works and journals pertaining to agronomy, as well as Experiment Station bulletins and reports.

ANIMAL HUSBANDRY

The animal husbandry department is made up of five divisions with adequate equipment for instructional purposes; a central judging arena and office building provide facilities for instruction and administration.

The division of animal nutrition maintains a laboratory for small animal work. These animals are used chiefly for deficiency disease, vitamin, mineral and unbalanced ration work. All the animals in the department are available for other work.

The beef cattle division is equipped with barns, sheds and land suitable for fitting show animals, caring for commercial cattle. Excellent herds of Hereford, Shorthorn and Aberdeen Angus cattle are maintained.

Commercial grades of cattle for class and experimental work are secured each year. These cattle are used in connection with the courses in feeding, marketing and beef production.

The horse division is equipped with representatives of the following breeds: Percheron, American Saddle, Standard bred, Morgan and Thoroughbred. It is a matter of some interest that there are also a fertile mule and two of her offspring being maintained for the purpose of further testing their breeding ability.

A large flock of Rambouillet sheep and smaller flocks of Delaines, Hampshires and Southdowns are maintained by the sheep and goat division. There is also a flock of grade and purebred Angora goats. This division is assigned a complete unit of land divided into small pastures for rotation grazing work. The goats are run in 125 acres of brush land. Magnifying glasses, micrometer calipers and scouring equipment are available for work on wool and mohair. At least one carload of commercial lambs is fed each year. As with cattle, these lambs are used for securing feeding data as well as for class work in marketing and production.

The hog division is equipped with numerous small lots and pastures, a central feeding and storage barn, colony houses and feeding floors. Breeding herds of Duroc Jerseys, Poland Chinas, Hampshires, Tamworths, and Berkshires are maintained.

Herds of cattle, horses, sheep and hogs are fitted and exhibited at both fall and spring live stock shows. Most of the animals exhibited are bred by the department. These animals are used for instructional purposes in judging, feeding, fitting and exhibiting.

In addition to the animals and equipment in the Animal Husbandry department, students specializing in this work have available for use by arrangement the swine herd of the Texas Experiment Station, and the wool and mohair equipment, including the scouring plant used for shrinkage determinations.

A new Animal Industries Building has been planned, to include laboratories for the study of meats. animal nutrition, wool and mohair, and special Sacilities for graduate study in the various fields of Animal Husbandry. It is hoped that the building will be ready for use by September 1933.

ARCHITECTURE

The department occupies a large drafting room where students of the several classes work together, two small drafting room for special drafting classes, a well lighted art room for cast drawings and art instruction, a library and lecture room. These rooms are furnished with adequate drafting tables and lockers, a large number of casts of architectural units and sculpture, a complete collection of building materials and samples, a collection of library reference books and plates, a projection lantern and large screen wall for lectures with an adequate collection of lecture slides and plates upon architectural history and the history of art. The department subscribes to architectural magazines, among which are French and English standard publications. Students of Architecture also have access to the equipment of the other departments whose work is associated with Architecture.

BIOLOGY

The department in its various branches is fully equipped with apparatus for lecture room and laboratory use. There are eight laboratories—one zoological, four botanical, one bacteriological and two research.

For the use of elementary classes, the department has 60 standard 2-power microscopes, with accessories; charts and models of plants and animals; a collection of prepared specimens, and a herbarium of about 3000 mounted plants. For experimental work and demonstration in the class room, there are instruments of precision, largely of French and German make. For use by more advanced workers there are 20 high-powered microscopes; 3 Leitz binocular dissecting microscopes; Reickert and Minot microtomes; imbedding ovens; a large and small incubator; two steam sterilizers; analytical balances; and a full equipment of glass ware, chemicals, stains and similar material.

The library contains about 300 books of reference and several thousand separates, bulletins and special papers. Leading journals of botany, zoology, bacteriology and mycology are available to the student.

CHEMISTRY AND CHEMICAL ENGINEERING

The department has the usual laboratory facilities including a compressed air system, a steam hot plate in every hood, electric combustion and muffle furnaces, electric drying ovens and a ventilating system. The laboratories are supplied with hydrant and distilled water. Each student is assigned to a lock-desk containing the necessary equipment. Special apparatus, such as colorimeters, calorimeters, refractometers, Lovibond tintometer, and gas burettes, used in technical work is available at the stock room. There are adequate laboratory facilities for work in agricultural, analytical, inorganic, organic, physical and industrial chemistry.

The industrial chemistry laboratory includes a complete cotton seed oil mill and equipment for testing and experimental work in petroleum. Soap making and hydrogenation equipment is also available.

The department has a good reference library for use of its students and instructors.

CIVIL ENGINEERING

The equipment in the civil engineering department provides for adequate laboratory instruction and practice in surveying, hydraulics, testing of engineering material, and in office work such as drafting and designing.

For the work in surveying there are transits, levels, plane-tables, compasses, and the smaller instruments used in such work.

The hydraulics laboratory contains water meters, meter testing apparatus, impulse wheels, weirs, weighing tanks, centrifugal pumps, hydraulic ram, current meters, and other instruments for hydraulic tests and measurements.

The laboratory for testing engineering material such as steel, wood and cement contains one universal testing machine of 100,000 pounds capacity, one 50,000 pounds and one 20,000 pounds. There is also one torsion machine having a capacity of 50,000 inch pounds. For testing cement and sand there are the usual briquette molds, tension machines, and other apparatus for making tests of fineness, soundness, and other properties of cement.

The road materials laboratory is well equipped with apparatus for testing both bituminous and non-bituminous highway materials. For non-bituminous materials there are a diamond core drill, diamond saw, Dorry hardness machine, Page impact machine, Deval abrasion machine and other similar equipment. For testing bituminous materials and pavement samples the department is especially well equipped, having practically all of the standard apparatus for such tests.

In addition to laboratory and drafting room facilities there is a well furnished library of books and periodicals on civil engineering and related subjects, available for the use of students as well as instructors.

DAIRY HUSBANDRY

The department controls a complete dairy farm containing 500 acres of land, the operations of which are devoted to the growing of feed crops and the preparation and maintenance of permanent pastures for the dairy herd. One hundred and fifty acres are under cultivation, the remainder being devoted to pasturage. All farm operations are carried on with modern machinery.

The herd consists of approximately 175 animals, including cows, calves and bulls, of which 40 per cent are pure-bred Jerseys, 40 per cent pure-bred Holsteins, 10 per cent Ayrshires, and 10 per cent pure-bred Guernseys. The milking herd usually includes about 90 cows, which are housed in a modern dairy barn constructed of tile and concrete, and furnished completely with modern barn equipment.

The creamery is housed in a tile-stucco building. Equipment and machinery necessary for the manufacture of butter, cheese, ice cream and milk are available. The equipment is motor driven and includes several types of pasteurizers, churn, freezer, homogenizer, direct expansion cooler, and a six-ton refrigerating unit.

ELECTRICAL ENGINEERING

The electrical engineering laboratories comprise three electric machinery laboratories, a measurements laboratory, a standardizing laboratory, a photometric laboratory, a storage battery room, a storage battery repair room, a communication laboratory for the telephone, telegraph and radio work, a work shop, two rooms for building and repairing electrical machinery, and an instrument room.

The electrical laboratories are supplied with 2300 volt, three phase, 60 cycle power from the College power station. Alternating current at 110 and 220 volts is obtained through transformers. Direct current is supplied by two motor-generator sets located in the machinery laboratory. The small set consists of a 2300-volt, 50-horse power induction motor direct connected to a 35 kw., 125-volt, compound wound direct current generator. The larger set consists of a 2300-volt, 100-horse power synchronous motor direct connected to two 35 kw., 250-volt Dobrowolsky, three-wire direct current generators, so arranged that they may be operated independently or connected in series for obtaining 500 volts. A three panel switchboard controls the above equipment and the feeders to the 6-panel switchboard used for the distribution of power within the machinery laboratories and to the switchboard located in the other laboratories. Throughout all laboratories the distribution of power is controlled by a plug- and-socket system thus securing absolute flexibility.

The equipment of the machine laboratories is as follows: two street car motors mounted on a single shaft with prony brake attachment, and equipped with both a hand controller and a master controller operating an electropneumatic system, twenty-eight direct-current machines ranging in size from 1½ horse-power to 20 kilowatts and provided with various means of speed and voltage control; eight alternators ranging from 2½ K. V. A. to 30 K. V. A.; three convertors including one of the split pole type; a number of induction motors including practically all standard types; a number of constant voltage transformers; a constant current transformer; induction regulators; and several types of automatic motor starters.

The laboratories are provided with a total of more than 200 voltmeters, ammeters, wattmeters, and meters for measuring other electrical quantities.

The high tension laboratory contains a 100 K. V. A. 200,000-volt transformer, with regulator for varying the voltage, a 125 cm. spark gap, a crest voltmeter with a number of auxiliary devices.

The electrical measurements laboratory has a full equipment of the apparatus needed for the study of the fundamentals of electrical measurements.

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The equipment includes the following: various types of Wheatstone bridges; a Kelvin double bridge; a Cary-Foster bridge; magnetometers, dynamometers; portable, semi-portable and wall galvanometers; astatic galvanometers, universal tangent galvanometer; calorimeters; sechometer; influence machine; electrostatic apparatus; spark coils; apparatus for testing magnetic qualities of iron and steel; standard resistances; standard cells; physical balances; universal shunts; resistance boxes; variable inductances and capacities; portable storage batteries, and various minor equipment.

The standardizing room is equipped with a Leeds and Northrup potentiometer and its accessories; Weston standard laboratory voltmeter, and millivoltmeter with shunts; a Kelvin balance; Westinghouse precision ammeter; voltmeter, and wattmeter, and standard resistances and standard cells. In this room there are also a three-vibrator oscillograph with photographic attachment, and a motor generator set consisting of direct current motor direct connection to set of four alternators giving a fundamental wave, and the third, fifth and seventh harmonies, so arranged that any desired phase relation may be obtained between each of the harmonies and the fundamental.

The photometric laboratory has several well arranged dark rooms suitable for various kinds of photometric work. They are equipped with Lummer-Brodhum and flicker photometers which can be used to measure the distribution of light from any angle, an Albricht sphere, a Taylor reflectometer, and an assortment of portable photometers making possible complete tests of illuminants and illuminations.

The equipment of the communication laboratories, consisting of both manual and automatic telephone switchboards and accessories, has been augmented by the admission of a variable oscillator, a 250 mile artificial transmission line and an assortment of delicate measuring instruments, the gift of the Bell Telephone System. The laboratories contain a complete assortment of radio telephone and telegraph equipment including wave meter, decremeters and various types and sizes of vacuum tubes. The College operates a 500 watt broadcasting station from which regular programs are sent out. This station is available for use of instruction also.

The College maintains a complete power plant to furnish power, light, water, heat, ice and refrigeration, and both this and the motors which operate the machinery of the various departments are available for study and test by the student.

The latest books on electrical engineering and a selected list of the best technical magazines are kept in the department library and are available for reading and reference work.

ENGINEERING DRAWING

This department is located on the fourth floor of the Academic Building. It occupies three large drawing rooms, three recitation rooms and offices, all of which are well ventilated, heated, lighted, and equipped with necessary furniture and models.

Modern apparatus for the draftsman, such as electric blue printing machine, universal drafting machine, pantograph and ellipsograph, is included in the equipment.

A reference library of the best works on drafting and illustrating is kept in the department for the conveneience and use of the students.

ENTOMOLOGY

The department of entomology maintains two laboratories, one of which is equipped with dissecting and compound microscopes and the other with compound microscopes. In addition, the department maintains an insecticide laboratory equipped with the more important insecticides, spray machines, powder guns, and similar apparatus.

The department has several insect models illustrating the anatomy of the more common insects, together with a series of charts illustrating the life histories of insects. This equipment is supplemented by a baloptican and several hundred lantern slides illustrating the anatomy and life history of the most important insects.

The equipment in apiculture consists of a bee house and workshop containing honey extractors, wax presses, wiring device and different makes of beehives. The department also has a small apiary, where the student may familiarize himself with the practical operations of bee-keeping.

For life history work, there is an insectory equipped with breeding cages, a hydrothermograph, and all necessary equipment for working out the life histories of insects.

A library is maintained which comprises two hundred and eighty volumes of technical books on entomology, and full sets of the Transactions of the American Entomology Society, Genera Insectorum, Journal of the New York Entomological Society, Entomological News, The Canadian Entomologist and Psyche. In addition, a reading table is maintained, on which are kept recent publications of economic entomology and apiculture.

GENETICS

The genetics department has a laboratory equipped with tables and other general apparatus. A number of different strains of drosophila are kept for laboratory use. These are grown in a constant-temperature refrigerator which provides optimum conditions for their culture. This laboratory is also equipped with calculating machines and a Leitz compound microscope.

The genetics research laboratory consists of a stucco building 30x50, equipped with a large number of individual mating cages for pigeons and guinea pigs, a feed room, and an office. There are fifteen outside mating pens for use in studies in poultry genetics. Complete stocks of pigeons, guinea pigs and poultry are maintained. Investigations are being carried on with these at all times, thus giving the under graduate and graduate student an opportunity for close acquaintance with research work in experimental breeding.

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The department has a reference library consisting of books, periodicals and bulletins.

GEOLOGY

The department of geology occupies rooms on the first floor of Science Hall. These include a lecture room, laboratories for general geology, mineralogy, paleontology, petrology, and offices of the department. Equipment includes geologic and crystallographic models, maps, goniometers, six petrographic microscopes, plane tables and other surveying instruments and an automobile for field trips.

The collection of rock, mineral, and fossil specimens donated by Mr. F. W. Steber of Dallas forms the nucleus of departmental collections. These now include approximately 5000 fossil specimens, 1500 mineral specimens and 600 rock specimens. Library facilities include the Watson Library of 1500 bound volumes and 3000 pamphlets, and approximately 1500 additional volumes in the college library.

HORTICULTURE

The class-room work in horticulture is supplemented by practical exercises in orchards, gardens, and laboratories.

There are now growing on the horticultural grounds consisting of 60 acres, orchards containing the standard varieties of peaches, pears, plums, pecans, persimmons, grapes, figs, blackberries and dewberries.

In addition to the commercial gardens, a plot of ground has been set aside on which a great variety of vegetables is grown under the direct supervision of the student.

The department has ample equipment for the control of insects and diseases, including various types of sprayers.

A collection of more than 1200 lantern slides owned by the department is used for illustrating different subjects, including those in vegetable gardening and nut culture.

For work in plant propagation, in forcing early vegetables, in plant breeding, and in floriculture, the students have the use of one of the finest greenhouses in the Southwest. In addition, the department has an excellent greenhouse on the horticultural farm and modern laboratories and cold storage facilities in the agricultural building.

LANDSCAPE ART

The Department of Landscape Art has two well equipped drafting rooms, a comprehensive lantern slide collection on the various phases of gardening, a good reference library, and a large number of blue prints, plans and sketches.

In addition, the department has under its supervision the College greenhouse, several acres in ornamental plants, a young nursery, hot beds, cold frames, lath houses, tree moving wagon and other equipment designed for general landscape practice, all of which is available for student use.

MECHANICAL ENGINEERING

Most of the equipment for this department is divided between five shops, the woodworking and pattern shop, the mill room, the foundry, the machine shop, and the mechanical laboratory.

The woodworking and pattern shop is equipped with specially designed benches with individual drawers and two quick-acting vises. A complete assortment of carpenter's tools is kept in each bench. In addition to these tools, numerous special tools are kept in the tool room. There are also five wood lathes, two small jointers, one eight-inch circular saw, a twenty-inch band saw, an electric router, à portable belt sander, a disc sander, and two tool grinders.

In the mill room there are a twenty-inch cut-off saw, a thirty-six-inch band saw, a twenty-four-inch planer, a twelve-inch jointer, a double arbor universal circular saw, a single spindle shaper, a mortiser, and a large belt sander.

The foundry is equipped with a twenty-inch Whiting Cupola for grey cast iron, a gas fired tilting furnace for non-ferrous metals, a gas fired core oven, a core squeezer, a Combs gyratory riddle, both metal and wood flasks, a tumbling barrel, and a grinder.

The machine shop is equipped with seven direct motor driven engines lathes, eleven step-cone back geared engine lathes, one turret lathe, one direct motor drive and three step-cone milling machines, one three-foot radial drill (motor on arm), one speed drill, one fourteen-inch upright drill, one twenty-four-inch by six-foot planer, one sixteen-inch and one twenty-four-inch motor driven shaper, one universal tool grinder, one eighteen-inch disk grinder, four motor driven tool grinders, one motor driven Yankee drill grinder, one belted tool grinder, and three reverberatory furnaces for heat treating. The tool room contains the necessary small tools to go with the various machines, a large assortment of drills, taps, dies, milling cutters, scales, calipers, micrometers, a master micrometer donated by Pratt and Whitney Company, and several portable electric drills and grinders.

In the mechanical laboratory there are a DeLaval steam turbine, three small reciprocating steam engines, a Corliss steam engine, a triple expansion marine engine, pumps, measuring tanks, scales, condensers, and other similar auxiliaries for running tests; a single cylinder engine operating on natural gas, a Krueger semi-Diesel engine donated by the San Antonio Machine and Supply Company, a Tips semi-Diesel consigned to the Department by The Tips Engines Works of Austin, a complete one-ton York ice machine, a fifty-horsepower General Electric dynamometer secured through the co-operation of the General Electric Company, and a Twin City tractor engine consigned to the Department by the Minneapolis-Moline Power Implement Company. The laboratory instrument room contains a number of gauges, thermometers, tachometers, steam and gas engine indicators, pitot tubes, and pyrometers, necessary for testing.

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In addition to the above equipment is a railway locomotive, fully equipped, supplied through the courtesy of The Missouri Pacific Lines.

MILITARY SCIENCE AND TACTICS

The department has full equipment for Infantry, Field Artillery, Signal Corps, Cavalry, Engineer Corps, and Coast Artillery Corps, as follows:

Infantry: The Infantry is equipped with rifles, machine guns, automatic rifles, 37 mm guns, trench mortars, hand rifle grenades, gallery rifles, infantry packs, ammunition for all arms, and field engineering tools. Besides these arms and equipment, the Infantry has facilities at hand to use all of its equipment, including an indoor gallery range.

Field Artillery: One 75 mm. battery complete, consisting of four 75 mm. guns, 8 caissons, 10 limbers, 2 battery and store wagons, 2 store limbers, battery reel cart, 68 horses, harness and saddle equipment for all horses, and all accessories, spare parts and tools, 1 five-ton caterpillar tractor, 1 F. W. D. ammunition truck, one White reconnaissance car. The Artillery equipment also includes four Browning machine guns and a complete supply of fire control instruments, such as B. C. telescope, range finders, aiming circles, trench periscopes, prismatic compasses, sitogoniometers, and an assorted supply of smaller instruments, including drawing instruments, slide rules for artillery computations, compasses, stop watches and telephone equipment.

Cavalry: Sixty sets of Cavalry horse equipment complete, including both McClellan and flat saddles; sabers; rifles; machine rifles; machine guns; Cal. 45 automatic pistols; 60 Cavalry horses; 1 wagon escort; and harness.

Engineer Unit: Pioneer engineer, photographic, demolition, map reproduction and sketching equipment, surveying instruments and carpenter and bridging tools.

Signal Corps: Radio telephones; radio telegraph; military telephones and switchboards, automatic telephones and switchboards; wavemeters; batteries; buzzer instruction sets; service buzzers; buzzerphones; amplifiers; crystal receivers; spark transmitters; commercial telegraph sets; repeaters; tools, equipment and supplies necessary for installation and repair of communications equipment; literature and books for conducting technical courses in Signal Corps work.

Coast Artillery: Tractor drawn Artillery Unit which includes the 155 mm. gun and the 10 ton tractor. A harbor defense fire control system which includes the plotting board, range correction board, deflection board, azimuth instruments, storage batteries, battery charger, various types of telephones and time interval apparatus; an anti-aircraft gun on mobile mount with the fire control instruments for firing on aerial targets; Anti-aircraft machine guns; two F. W. D. trucks for instruction in motor transportation of the anti-aircraft battery; various engineer instruments such as transits and levels for instruction in orientation.

PETROLEUM ENGINEERING

The laboratory of the department of petroleum engineering is equipped with samples of appliances and machines used in the petroleum industry.

Through the co-operation of a number of the leading producing companies and the manufacturers of oil well machinery, this laboratory is rapidly being built up to include all types of equipment with which the student will come in contact after he enters the field of petroleum engineering.

PHYSICS

The main lecture room of the Physics Building has a seating capacity of 250. It is equipped with amphitheatre seats, motor-driven blinds for darkening the room, and a large lecture table provided with gas, water and electric switchboard.

A smaller lecture room, having a seating capacity of 70, contains a lecture table equipped with water, gas and switchboard.

The apparatus room on the first floor is equipped with a five-panel switchboard supplied with 110 and 220-volt alternating current from the College power system, with direct current from 60 Edison storage cells, and with 110 and 220-volt direct current from a 20 kw. motor generator in the basement. By a plug-and-socket system either alternating or direct current can be distributed by individual lines to any part of the laboratory and to the lecture rooms

One of the two laboratories on the first floor contains sixteen tables, each supplied with water, sink, and gas. It contains also tables for sensitive balances. The other laboratory, designed for electrical measurements, is provided with numerous well distributed outlets for separate electrical lines to the switchboard.

The shop, also on the first floor, is equipped with a motor-driven planer, lathe, rip saw, band saw, and drill press, stock material and the usual metal and wood working tools.

The basement contains one general laboratory, ten smaller laboratories for special work, an equipment room for the motor-generator, a storage battery room, a general store-room and a store-room for chemicals.

In the two larger laboratories are fourteen tables mounted on masonry piers which are free from the floor. These tables may be used either for general practice or for special work. Each table is supplied with gas and a separate electrical line to the switchboard.

Two of the smaller laboratories are black and suitable for photometric work. Another, 40x20 feet, is suitable for general experiments in light.

POULTRY HUSBANDRY

The Poultry Husbandry department operates a farm of thirty-nine acres with a total of sixty-one buildings. Thirty-one of these buildings are used to house the Texas National Egg Laying Contest which utilizes sixty pens with a total of seven hundred and eighty hens bred for high production. Ten

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of the houses are used for research work in feeding and breeding, while the remaining twenty houses are used to house one thousand high producing hens of the three most popular breeds, Rhode Island Red, Plymouth Rock and White Leghorn. The department also owns and operates two mammoth incubators and several smaller ones. Every phase of poultry raising is actually carried out by the students.

RURAL SOCIOLOGY

The department has an extensive library of State and Federal reports and bulletins, together with clipping files and books giving accounts of various forms of social work. It also has a number of maps and charts illustrating in a graphic manner many questions connected with community organization and development. Apparatus for working out the laboratory problems peculiar to this field are available.

Connections have been established by the department for giving the student practical contact with local and State social problems, especially in the field of community organization.

TEXTILE ENGINEERING

For yarn manufacture there is ample equipment to produce carded or combed yarns and with it machines for making chain or sized warps of either single or double yarns.

In the weaving room there are fourteen Northrop looms and one Stafford loom which are entirely automatic, and two plain looms for ordinary plain goods. There are two dobby looms with box motion, to insert four colors for filling; one dobby loom for terry towels; one dress goods loom, with dobby and boxes for making seven-colored pattern; one loom for weaving narrow Jacquard dress goods, one Jacquard loom for weaving table covers, one for fancy towels, one silk loom and one braider.

The finishing machinery is for ordinary duck, sheeting or drill, and consists of an inspecting machine, railway sewing and rolling machine, folder and bale press.

VETERINARY ANATOMY

The anatomy laboratory has a number of mounted and unmounted skeletons of the domestic animals and about twelve sets of disarticulated skulls. There are a number of preparations of muscles and ligaments, both dry and wet specimens. There are also preparations of the brain, eye, feet and other organs preserved in formaline, and a number of charts and papier-mache models. There are the usual microscopes, microtomes, embedding apparatus, stains, reagents, and the apparatus used in histology and embryology, and five sets of sections showing the embryology of the chick and the pig.

VETERINARY MEDICINE AND SURGERY

The class-room work, practice and clinics are largely conducted at the Veterinary Hospital, which has a large operating room equipped with operat-

ing tables for large and small animals, stocks, casting harness, and instruments for operations and treatment of disease of live stock. A dispensary stocked with necessary drugs and biologics is maintained. Facilities for keeping records of each case are provided, and complete records are stored in fire-proof vaults for future reference. There are wards for sick dogs and other small animals. Provision is made for isolation of animals with infectious diseases and transmissible skin diseases.

A large barn, 50x120 feet, is used for keeping horses, mules, cattle, sheep and goats which are being treated. There are other barns and small houses used for isolating animals. After animals are in such condition that they do not need daily attention, they are turned into a large pasture to permit occasional treatment and observation until complete recovery takes place.

The serum laboratory offers an unusual opportunity for students to become familiar with the preparation of hog cholera serum, autogenous bacterins and other biologics.

Ambulance service for large and small animals is available; also automobiles for transporting students to see cases that cannot be brought to the 'College.

There is a post-mortem building with skylights, sanitary floor, hoisting apparatus and other equipment where post-mortem examination is made on all animals that die in the clinic and many dead animals from the surrounding country; also a slaughter house with sanitary floor, overhead tracks, hoisting apparatus, scalding vat, meat blocks, and cold storage for teaching the slaughtering, cutting, curing and inspection of meat and meat products.

VETERINARY PATHOLOGY

The department is located on the third floor of Francis Hall and has the usual equipment found in laboratories where pathology, bacteriology, and allied subjects are taught.

In connection with the department a pathological museum containing preserved specimens of various disease processes and parasites is maintained.

VETERINARY PHYSIOLOGY AND PHARMACOLOGY

The Physiology laboratory is well equipped with apparatus, reagents, and chemicals for proper instruction in pathological chemistry, experimental physiology, urine, blood, milk, and gastric analysis, and for producing graphic record of the physiological processes of the body.

The pharmacy and experimental pharmacology laboratory is equipped with the apparatus, reagents, and chemicals essential for thorough training in the preparation of all the official and the more common proprietary medicinal preparations, and for experimental work in the determination of the action of drugs on the living body. It also includes the necessary apparatus for the examination of arsenic, lime-sulphur, and other dips which are commonly used.

The toxicology department is equipped with all the apparatus, drugs,

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chemicals, and experimental animals essential to the proper study of the action of inorganic and organic poisons, and poisonous plants on the living animal, their detection and remedial treatment.

The apparatus consists of the necessary glassware, mortars, pill tiles, hot water funnels, torsion and laboratory balances, kymographs, pneumographs, Plethysmograph tubes, egographs, tambours, manometers, muscle levers, cardiac levers, saccharometers, urinometers, ureometers, indiconometers, hydrometers, electric centrifuge, electric water bath (for digestion experiments), respiratory and circulatory schemes, microscopes, spectroscope, drug mill, steam mill, suppository machine and mold, tablet machine, triturate tablet molds and all other necessary equipment. The department also cultivates a garden of medical and poisonous plants, which are used in the courses of instruction.

THE SCHOOL OF VOCATIONAL TEACHING

Officers and general class rooms for the School of Vocational Teaching are provided on the third floor of the Academic building. Two additional rooms have been provided in the Mechanical Engineering Shops building for Industrial Education classes. These rooms are furnished with modern equipment—one for mechanical drawing and the other as a general shop for wood, metal and electrical work, and are used by the classes from A. & M. Consolidated School studying industrial arts under trainees (senior student teachers) in Industrial Education.

The A. & M. Consolidated School, located on the College Campus, affords opportunity for observation and directed teaching. This project in school consolidation and transportation of pupils at public expense provides exceptional facilities for the study of current problems in school administration and management.

Part III

ADMISSION—EXPENSES

ADMISSION

All communications in regard to admission should be addressed to the Registrar, Agricultural and Mechanical College of Texas, College Station, Texas.

GENERAL REQUIREMENTS

The candidate for admission to the College must be of good moral character, at least sixteen years of age, and physically able to perform the duties of a cadet. He must be free from contagious or infectious diseases and must present a satisfactory certificate of recent vaccination against small pox and typhoid-paratyphoid fever, or be vaccinated against both upon entering the College.

SCHOLARSHIP REQUIREMENTS

1. Admission by Certificate.—Graduation from an accredited secondary school, with a minimum of fifteen approved units, is required for admission by certificate. From seven to nine of these units are prescribed, depending on the course of study for which the student enrolls; the distribution of units is indicated in List A, below.

The units in social science, natural science, and in elective subjects are to be chosen from List B.

No credit is granted for work done in an accredited school unless the candidate is a graduate of the school.

It is of the highest importance that credentials be submitted in advance. If this cannot be done, the candidate should bring them at the opening of the session. Without the credentials he cannot be admitted, and valuable time will be lost if he has to send for them after arriving at the College.

Blanks for submitting credentials may be obtained upon application to the Registrar.

List A-Distribution Of Units Required For Admission

SCHOOL OF— Agriculture:	English	Num Algebra	Plane	Social	s Requ Natural Science	Elective	Total
All curricula except Agri	-					•	
cultural Engineering	3	1	1	1	1	8	15
Agricultural Engineering	3	2	1	1	1	7	15
Arts and Sciences:	3	2	1	2	1	6	15
Engineering:	3	2 ·	1	2	1	6	15
(Including Architecture)							
Veterinary Medicine:	3	1	1	1	1	8	15
Vocational Teaching:	3	1	1	1	1	8	15

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List B-Elective Units

NOTES.—(a) Students who plan to enter the School of Engineering should complete Physics and Solid Geometry as a part of their course of study in high school.

(b) A maximum of 4 units in vocational subjects will be accepted for admission to the School of Arts and Sciences and the School of Engineering; for admission to the School of Agriculture, the School of Veterinary Medicine, and the School of Vocational Teaching, a maximum of 5 such units will be accepted.

2. Admission by Examination.—Any or all of the scholarship requirements for admission may be met by passing the entrance examinations.

The spring entrance examinations are held throughout the State in May, under the supervision of the State Department of Education, primarily for students in non-accredited schools and for graduates of accredited schools who lack one or more units of meeting the full requirements for admission.

Fall entrance examinations will be held at the College September 16, 1932 under the supervision of the College authorities, and will cover all the subjects required or accepted for admission as outlined above. Candidates desiring to take examinations at the College should notify the Registrar not later than September 10.

- 3. Admission by Individual Approval.—An applicant over twenty-one years of age, who has not recently attended school and who cannot satisfy the entrance requirements in full, may be admitted without examination, subject to the following requirements:
 - (a) He must make application on the official entrance blanks.
 - (b) He must furnish evidence that his preparation is substantially equiva-

lent to that required of other applicants, and that he possesses the ability and seriousness of purpose necessary to pursue his studies with profit to himself and to the satisfaction of the College.

- (c) He must show, by a test in composition, that he has an adequate command of the English language.
- (d) The candidate should forward his credentials to the Registrar in advance of his coming, but in no case will he be admitted without a personal interview.

A student admitted by individual approval will not be considered a candidate for a degree until he has satisfied the entrance requirements in full.

ADMISSION TO ADVANCED STANDING

Admission to advanced standing may be granted under the following conditions:

- (a) The candidate must present a letter of honorable dismissal from the institution last attended.
- (b) An official transcript of the record of all previous high school and college work must be submitted, together with a marked catalogue showing the college courses referred to in the transcript.
- (c) On the basis of these credentials credit will be given for work completed with a grade of C or better, so far as the work is equivalent in character and extent to subjects included in the course of study to be pursued here. Credits given by transfer are provisional and may be cancelled at any time if the student's work in the College is unsatisfactory.

It is essential that all credentials be forwarded to the Registrar in advance. College credit for work done in secondary schools will be given only on the basis of examinations at the College, and shall not include work presented in satisfaction of the entrance requirements.

ADMISSION OF SPECIAL STUDENTS

A limited number of young men over twenty-one years of age may be admitted to the College as special students, not candidates for a degree, subject to the following regulations:

- (a) The candidate must show good reason for not taking a regular course and must submit satisfactory evidence that he is prepared to profit by the special studies he wishes to pursue.
- (b) Record of his previous scholastic work must be submitted on the official entrance blanks and must be accompanied by a statement showing (1) his experience; (2) a plan of study, enumerating the courses he desires to pursue; and (3) the purpose or end expected to be accomplished by his study.
- (c) In order to be admitted to the work of any department a special student must secure the consent of the head of the department; and his course of study, as a whole, must be approved by the Dean concerned.

Special students are subject to the rules and regulations governing regular students, and are required to take the prescribed military training.

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A special student who may desire to become a candidate for a degree must satisfy the entrance requirements and obtain the consent of the Dean concerned.

ADMISSION AT THE BEGINNING OF THE SECOND SEMESTER

For the benefit of students admitted at the beginning of the second semester, certain first semester subjects are repeated. By completing these subjects, and by attending the summer session for twelve weeks, the student should be able to graduate with his class. Students who are unable to attend the summer session should not enter at the beginning of the second semester.

REGISTRATION

Upon arrival at the College students will report at once to the Academic Building for information in regard to registration.

Every student is required to register when he first enters the College and thereafter at the beginning of each semester.

Monday, September 19, 1932, will be devoted to the registration of new students; old students will register on Wednesday, September 21. Formal Class work begins Thursday, September 22.

EXPENSES

The necessary expenditures for the regular session of nine months range from \$400 to \$420 for new students, and from \$350 to \$400 for old students, distributed as follows:

	First Semester	Second Semester
	. (See	note 3, below)
Matriculation Fee (See note 1, below)	\$ 15.00	\$ 10.00
Maintenance (Board and laundry)	110.00	110.00
Room Rent	20.00	20.00
Medical Service Fee	5.00	5.00
Text Books and supplies, about	15.00	10.00
Laboratory fees, about	5.00	5.00
Student Activities Fee (voluntary)		
Room key deposit, returnable		
	\$186.00	\$160.00
Additional expenses for certain groups:		
Uniform (see note 2, below), about	60.00	
Drawing instruments for Freshmen in		
Engineering, about	15.00	

Post Office Box Rent: Students may rent post office boxes in the Student Exchange for 50 cents per semester, payable in advance.

From \$50 to \$75 additional for the session should be sufficient to cover the student's incidental needs; consequently, under ordinary circumstances, the maximum annual expenditure need not exceed \$450 to \$500 for new students, and \$400 to \$450 for old students. In many cases these amounts can be materially reduced by careful economy.

NOTES .-- 1. Old students who in either semester do not register on the days set

apart for that purpose pay an additional matriculation fee of \$5.00.

2. The estimated expenditure for uniform applies primarily for

2. The estimated expenditure for uniform applies primarily to new students. In the case of old students the expenditure will depend upon the articles of the uniform which must be replaced from year to year. The uniform may be purchased at the College Exchange Store.

3. Students entering for the second semester only will pay the charges indicated for

the first semester, except that the Student Activities Fee will be \$9.25.

Expenses of Day Students.—Day students pay all specified fees and charges except maintenance, room rent and room key deposit.

Expenses of Graduate Students.—A graduate student who is not a member of the College staff is required to pay the matriculation fee and laboratory fees. In the event of registration for the thesis only he is charged a matriculation fee of \$7.50. He also pays the regular charges for maintenance and room rent if he resides in a College dormitory.

Full time members of the College staff pay a matriculation fee of \$10.00 the first year, and \$5.00 each succeeding year; and laboratory fees in certain courses. They are not permitted to register in any semester for more than onefourth of a full semester's work.

PAYMENTS

All fees except Maintenance are payable at the beginning of the semester. The Maintenance Fee is payable in four installments, as follows:

	First Semester		Second Semester
1.	On entrance	1.	On entrance \$27.50
2.	November 1	2.	March 1 27.50
3.	December 1 16.50	3.	April 1 27.50
4.	January 1 27.50	4.	May 1 27.50

If the last three installments for each semester are not paid by the fifth day of the month indicated, the student is automatically dropped from the rolls of the College.

New students will need from \$175 to \$190 at the opening of the session, depending on the course of study. This includes the fees for the first semester, supplies, uniform, room rent, and the first installment of the Maintenance.

Old students will need approximately \$115, plus the cost of the articles of the uniform which must be replaced.

Payments should be made by cashier's check, or money order, payable to the Agricultural and Mechanical College of Texas. All checks, money orders and drafts are accepted subject to final payment. Personal checks will not be accepted.

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. Refunds.—The Matriculation Fee, Medical Service Fee and Laboratory Fees are in no case refunded.

No deductions will be made from the charges for maintenance and room rent in the case of entrance within 15 days after the opening of a semester, nor will a refund be made in the case of withdrawal during the last 15 days of a semester or the last 15 days for which payment is made.

In other cases, refund of maintenance and room rent will be made only when a student is required to withdraw by Faculty action, or in case of sickness disqualifying him for the discharge of his duties for the remainder of the semester. Such sickness must be attested by the College Physician before a refund can be made.

Unpaid Checks.—If a check or draft accepted by the Fiscal Department as cash is returned unpaid by the bank on which it is drawn, the person presenting it will be required to pay a penalty of \$1.00.

Duplicate Receipts.—Duplicate receipts, covering fees paid by students, will be issued on payment of fifty cents.

Deposits.—Deposits may be made with the Fiscal Department. Depositors will draw their money by giving receipt direct to the Fiscal Department as money is required. Deposits and withdrawals must be made in even dollars.

FEES

Matriculation Fee.—The matriculation fee covers the cost of incidental supplies, and entitles the student to the usual College privileges, including the use of the library.

Medical Service Fee.—The medical service fee covers the professional services of the College Physician and the hospital staff. Surgical operations and charges for consultations with outside physicians requested by parents are not included in the medical fee.

Maintenance.—Maintenance includes board and laundry.

Room Rent.—Rooms are furnished with single bedsteads, matresses, tables and chairs, and running water. The charge for room rent also includes heat, light and janitor service.

Laboratory Fees.—The laboratory fees cover in part the cost of materials used by the student in his laboratory work. The total amount of these fees varies according to the classification of the student. The fees for the several courses are listed under "Courses of Instruction by Departments." No laboratory fees are refunded after the first week of regular class work.

Student Activities Fee.—The Student Activities fee is for the support of student activities, and by vote of the student body has been fixed at \$15.00. It is paid at registration, but is not compulsory. A student entering after the Christmas holidays will pay only \$9.25. On payment of this fee a student is entitled to admission to all intercollegiate and inter-scholastic contests held at

College Station, to receive a copy of the Longhorn, the College annual, and one subscription to the Battalion, the student college publication, throughout the scholastic year.

STUDENT EMPLOYMENT

A number of students earn a part of their expenses by working in the various departments of the College at such times as their regular duties will permit. However, no student should expect to earn all of his expenses unless definite arrangements have been made in advance. As a rule, the new student should not plan to do outside work during the first semester of attendance, since all of his energies are demanded for proper adjustment to the problems of college life. In justice to himself and to the College, he is expected to exert every effort to secure sufficient funds from other sources to make a proper start.

Employment is available only to students whose financial resources are limited or whose parents are not in a position to pay all of their expenses. The amount earned by a student will depend upon the nature of the work and the manner in which it is performed.

Further information regarding opportunities for employment may be secured from the Registrar of the College.

LOAN FUNDS

The Association of Former Students administers a series of loan funds, which are available to students who have been in the College for at least one semester and whose record in scholarship and in conduct is satisfactory. These loans are made for a period not to exceed one year, at six per cent interest. The amount of the loan depends in each case on the student's actual needs.

Outside organizations, such as Rotary clubs, Kiwanis clubs, Lions clubs and Masonic clubs, have also established loan funds which are available to worthy students in this and other colleges.

Part IV

COURSES OF STUDY

There are eighteen courses of study extending through four years; of these the course in Liberal Arts leads to the degree of Bachelor of Arts; the course in Veterinary Medicine leads to the degree of Doctor of Veterinary Medicine; the others lead to the degree of Bachelor of Science. Group I (Design) of the course in Architecture covers a period of five years. Graduate courses and a short course are also offered, as shown below:

FOUR-YEAR COURSES

Agriculture Agricultural Administration Agricultural Engineering Landscape Art Liberal Arts Science Architecture Chemical Engineering Civil Engineering Electrical Engineering Mechanical Engineering Petroleum Production Engineering Textile Engineering Veterinary Medicine Agricultural Education Industrial Arts Education Industrial Education Rural Education

GRADUATE COURSES

Courses of study leading to the degree of Master of Science are offered in Agriculture, Engineering, Veterinary Medicine, Vocational Teaching, and the Sciences, including Economics and Mathematics.

Professional degrees in Engineering are awarded under the requirements set forth in the description of the work of the Graduate School, page 79.

TWO-YEAR COURSE

Cotton Marketing and Classing.

THE SCHOOL OF AGRICULTURE

The following four-year courses are offered in the School of Agriculture:

Agriculture.

Agricultural Engineering.

Landscape Art.

AGRICULTURE

The four-year course in agriculture has as its main object the preparation of young men for the business of farming, for the pursuit of scientific investigation along some lines of agriculture, as county demonstration agents, or extension workers, and for teaching in high schools and agricultural colleges. It also affords excellent preparation for young men who intend to follow business pursuits, especially for merchants and bankers. Systematic training is given in the sciences of biology, chemistry, and entomology, which are fundamental to the study of scientific agriculture, and in technical subjects covering the main divisions of agriculture, including agricultural engineering, agronomy, animal husbandry, farm management, horticulture, husbandry, and rural sociology. As shown in the curriculum, the work in the Junior and Senior years is arranged so as to provide for a choice by the student of one of nine groups of studies. This arrangement affords the student a wide range of subjects from which to choose his major work, permitting him to specialize in agricultural education, agricultural engineering, agronomy, animal husbandry, dairy husbandry, entomology, horticulture, poultry husbandry, or rural sociology.

AGRICULTURAL ADMINISTRATION

The course in agricultural administration stresses the business side of agriculture rather than the technical side, although the latter is not neglected.

The central aim of the course is to prepare men as agricultural economists. This involves the concept that farmers will become associated in powerful business organizations, carrying on their commercial operations in accordance with fundamental principles that guide other lines of industry.

The factors that promote the economic efficiency of the individual farms are given careful consideration, as the farmsteads are the pillars upon which the great business superstructure of agriculture must gradually be built. Economical growing of plant and animal products upon the individual farms must ever be an indispensable prerequisite to successful farmer-business organizations.

Such sciences as statistics and accounting are used as tools to bring the great mass of world data pertaining to agriculture into such form that they may be analyzed and interpreted. It is because the problems relating to the economics of agriculture require exact measurements that so much use is made of mathematics, accountancy and statistics in the course in agricultural administration.

Students who complete this course will be equipped to enter general business such as that of banker or merchant; to administer landed estates, large or small; to enter the Civil Service in the field of marketing statistics; to become managers of a business, either private or co-operative; to serve as agricultural advisors in chambers of commerce, and corporations, including railroads; to serve as county agents; and as instructors and research students in economics and commercial subjects.

It should be emphasized that there is at present a great need for business men who have a thorough understanding of both the economic and technical side of agriculture. This is especially true of a state like Texas, which is predominantly agricultural. Much of the misunderstanding that now exists between rural and urban communities will be dispelled when the students who have taken this course, with the broad vision it inculcates, become distributed as business men and leaders over the State.

At the beginning of the sophomore year, the student will choose one of the following groups: (1) Accounting and Statistics; (2) Agricultural Economics; (3) Farm and Ranch Management; (4) Marketing and Finance.

AGRICULTURAL ENGINEERING

The course in agricultural engineering is planned to give the student an engineering training with an agricultural viewpoint. A thorough grounding in fundamental engineering principles is given, as much time is devoted to purely agricultural subjects as is possible, and the applications of engineering to agriculture receive their share of attention.

The need for such engineers is being felt more and more each year as the demand grows for farms better equipped with power machinery, farm buildings and home conveniences, and more land to be reclaimed by drainage, irrigation and clearing.

Graduates of this course are prepared for service in the following lines; with the colleges and the government, in teaching, extension, and experiment station work; with manufacturers of farm machinery, gas engines, tractors, other farm equipment and farm buildings; in advertising, sales and designing work; with engineering and contracting firms doing irrigation work and drainage work; and with farm trade journals.

LANDSCAPE ART

The purpose of this course is to train students in the development of outdoor areas, such as flower gardens, both formal and informal, large and small estates, parks and playgrounds, cemeteries and the surroundings of buildings, private, semi-public, and public. The object of the landscape designer is to create not only beautiful compositions, but to plan, direct and to carry to completion problems that will satisfy the esthetic taste and in addition be fundamentally practicable.

In order to perform this work properly, the student should have some knowledge of the basic sciences and in addition a considerable training in architecture, horticulture and civil engineering. It is not necessary that he be equally proficient in all phases of landscape art, as the work is sufficiently broad to enable men of diverse talents to select and follow some particular subdivision of the work. Students whose primary qualification is a talent for drawing become designers; others are more interested in the horticultural side and become superintendents of planting. Still others may prefer landscape construction or one of the many divisions of civic improvement. Extension

landscape work, superintendents of large parks or cemeteries, members of city park boards or park commissioners are some of the other fields open to graduates in this group. In addition the United States Department of Agriculture now employs landscape architects, the positions being filled under Civil Service Rules.

While the student can, with the training he receives at the College, begin practice immediately after graduation, an apprentice course under a competent landscape architect or actual work in a good nursery, or both, will be found of great value. Students are urged to spend part of their summer vacations in some related field, thus gaining technical knowledge and experience while still in college and thereby shortening or eliminating entirely an apprentice course after graduation.

THE SCHOOL OF ARTS AND SCIENCES

In the School of Arts and Sciences there are offered the following fouryear courses:

*LIBERAL ARTS

The Course in Liberal Arts offers carefully planned programs of study in the following fields:

Economics (Business, Commerce and Finance)

English (Language and Literature)

History (Including Government)

Mathematics

Modern Languages (French, German, Spanish)

Physical Education

The course is intended for students who are interested in the general studies rather than in technical and scientific fields, and for those who plan to enter upon a business career, to prepare for foreign service, or to engage in the profession of teaching, particularly in the secondary schools.

The first two years of the Course in Liberal Arts also provide the necessary preparation for students planning to study law.

*SCIENCE

The work of the course in Science is planned with the following purposes in view:

- 1. To prepare students for practical work and advanced study in the important fields of Biology, Chemistry, Geology and Physics, especially as they relate to agriculture, engineering, and allied industries.
- 2. To provide the necessary fundamental preparation for students planning to enter upon the study of medicine.

^{*}For a more detailed description of the above courses see the "Handbook of the School of Arts and Sciences," a copy of which may be secured by writing to the Registrar of the College.

3. To train teachers of science in secondary schools and other institutions of learning.

The student's major work is to be carried on in one of the following fields: Biology (Botany, Zoology, Bacteriology), Entomology, Genetics, Chemistry; Geology (General Geology, Petroleum Geology); Physics.

Students in the course in Science who complete in this College at least two years of work preparatory to Medicine, and who subsequently complete the first two years in Medicine in a class A medical college, will be awarded the degree of Bachelor of Science, upon transferring their medical credits back to this institution, and upon satisfying the grade-point requirement. The work completed in this institution must include all of the prescribed subjects listed for freshman and sophomore years of the Course in Science and at least fourteen hours of approved electives.

THE SCHOOL OF ENGINEERING

The following courses are offered in the School of Engineering.

FOUR-YEAR COURSES

Architecture (Group 1, five years; group 2, four years). Chemical Engineering
Civil Engineering.
Electrical Engineering.
Mechanical Engineering.
Petroleum Production Engineering.
Textile Engineering.

TWO-YEAR COURSE

Cotton Marketing and Classing.

ARCHITECTURE

The course in architecture is planned to give thorough instruction in the subjects which are generally recognized as necessary in preparation for architectural design and building construction. It is arranged to make the practice classes reflect the instruction given in the theoretical subjects and to associate the two in practical application and problems, which are intended to prepare the student for immediate usefulness and earning ability after graduation. While particular emphasis is given throughout the course to the unison of design and construction which exists in all practical architectural work, the course is arranged in two groups; group 1, Architectural Design, which develops special ability in composition, planning, and rendering in the later years of the course; group 2, Architectural Engineering, which devotes particular attention to the structural elements of architectural practice during the later years. The same work is done by the freshman class in the two groups, and as the courses develop, the emphasis upon the special work of each group is increased, until in the last year, it becomes distinct and separate.

Both groups give a sufficiently broad training in architecture to make the student effective in general architectural work after graduation.

In the selection of either of these groups the student should be guided by his natural inclination toward the type of work which is emphasized in that group. Graduates in Architecture find positions as draftsmen, designers, superintendents or general assistants in architects' offices; in the architectural and engineering departments of business and railway corporations; in the construction companies, in state and municipal employment and in the Federal Civil Service. A few years of practical experience should fit the graduate to enter upon independent architectural practice.

CHEMICAL ENGINEERING

The course in chemical engineering is planned to prepare students for the design, construction, and operation of industries in which materials undergo chemical and physical change.

Chemical engineering became a separate division of engineering with the growth of strictly chemical industries, and it is now recognized as one of the important divisions of engineering, dealing with combustion of fuels, heat treatment of metals and alloys, the preparation of water for potable and industrial use, the refining of petroleum and cotton seed oil, the development of electric furnace products, portland cement, lime gypsum, plaster, heavy chemicals, soaps, rubber, corn products, textiles, paper, artificial leather and silks, food products, and other products.

The work of the chemical engineer is the changing of raw material into the finished product with the greatest efficiency and economy. He substitutes a rigid control of processes for guess work and uncertainty and increases the productivity of labor by supplying more efficient processes, where the standard and quality of the finished product are revised and the amount of seconds and rejections is reduced. The chemical engineer must also be able to modify a process in order to adapt it to commercial conditions and select his material for construction with special reference to its use. His work is distinct from that of the chemist on the one hand and the mechanical engineer on the other; though he must have a thorough training in both chemistry and engineering.

As chemical engineering treats of the processes whereby materials undergo a chemical and physical change, it is apparent that a large number of diversified industries have use for the chemical engineer, not only in the operation and control of processes but in the design of special equipment. Many chemical engineers enter the research laboratory, investigating processes in the laboratory and supervising their operation in the plants, considering carefully the controling interest of cost as a factor in all industrial operations.

Graduates in chemical engineering may enter industrial work in two ways; first by entering the laboratory and then transferring to the plant; or second, by starting directly in the development, control or operating division of the plant.

CIVIL ENGINEERING

The course in civil engineering has for its object the thorough grounding of young men in the underlying principles of engineering, with such training in the art of putting these principles into practical use as will enable the graduate to give satisfactory service in an engineering organization immediately upon graduation.

During the first three years the student is given training in the subjects common to all civil engineering courses, such as surveying, railroad engineering, mechanics, strength of materials, hydraulics, and stress analysis. In the fourth year he is given an opportunity to specialize moderately in structural engineering, highway engineering, hydraulic engineering, or municipal and sanitary engineering.

In highway engineering special emphasis is placed on pavements and highway materials, while in structural engineering somewhat more attention is given to stresses and design of bridges and other structures.

In municipal and sanitary engineering less time is devoted to structures, with correspondingly greater emphasis on water supply, sewage disposal, sanitation, and other municipal problems. In the field of hydraulic engineering the principal divisions treated are hydrology, flood control, irrigation, and drainage. Either field will fit the student for any of the lines of work open to civil engineers, among which may be mentioned the following: professional practice in surveying; water supply, sewerage and sewage disposal; railway location, construction and maintenance; the design and construction of dams, reservoirs, canals, foundations, buildings, bridges and other structures; design, construction and maintenance of roads and pavements; planning and execution of sanitary measures for rural and urban communites; adminstration of city business as city manager; research work in colleges or government bureaus; technical service of various kinds in the industries, leading to executive positions.

ELECTRICAL ENGINEERING

The course in electrical engineering is designed to give the student a thorough training in the underlying principles of direct and alternating current phenomena and of electrical measurements. It provides training in subjects fundamental to the general practice of the engineering profession, in the theory of electricity, and in the application of the theory to practical problems in many branches of engineering.

The work of the first three years of the course includes the mathematics, chemistry, physics, drawing, and mechanics fundamental to any engineering course. The electrical engineering subjects begin in the sophomore year and continue in an increasing amount through the junior and senior years. Much emphasis is put on the fundamental principles of electrical engineering, but

the fundamentals are vitalized by illustration of their applications in engineering practice. In the senior year, without reducing the time devoted to fundamental subjects, an opportunity is given to the student to make a study of the application of electrical engineering to some field of engineering. This is done with two purposes; the first, and more important, to impress more firmly in the student's mind the principles already covered; and the second, to give the student specific information about some branch of electrical engineering.

Electrical engineering presents broad opportunities for the young man with proper training. A few of the fields which he may enter are outlined below:

The electric power plant has come to be considered the source of energy not only for the lighting of buildings and streets, but for the operation of all kinds of machinery ranging in size from the largest factory to the sewing machine and the vacuum cleaner. It is recognized that technically trained engineers are needed not only for the more highly technical positions in the organization of the central stations, but that by virtue of their technical knowledge they are also best qualified for practically every position of responsibilty in such organizations.

The utilization of electrical energy by manufacturing organizations has necessitated the employment of electrical engineers to design the installation of electrical machinery and supervise it when in operation.

The electric railway industry is another field in which electrical engineers are required, to supervise the electrical equipment used in the production of the power and operation of the trains. The electrification of railroads is in its infancy, but the decided gain in efficiency from operating with electricity instead of steam will cause a steady increase in the number of roads to be electrified.

The telephone and telegraph companies have always used a limited number of electrical engineers, but with the greater complexity of electrical devices which are displacing the simpler systems of communication, trained engineers are in demand not only for the more highly specialized positions but also for administrative and executive positions where a knowledge of electrical engineering is becoming important. Radio engineering is a field for electrical engineers which, while comparatively new, bids fair to become of considerable importance.

Many electrical engineers are needed in organizations engaged in the manufacture of electrical machinery and its proper application, sale and erection. There are also a great many other subdivisions, such as that of the illuminating engineer, the signal engineer, the battery engineer.

A Signal Corps unit of the Reserve Officers' Training Corps has been established at the College, and electrical engineering students who become members of this unit receive thorough instruction in telephone, telegraph and radio engineering in addition to their other engineering work. For use in

the Signal Corps work, the government has supplied a complete assortment of modern equipment.

A branch of the American Institute of Electrical Engineers has been organized among the students and affords the means of keeping students in touch with the latest developments in the electrical field.

MECHANICAL ENGINEERING

There are few industries which do not need the services of a Mechanical Engineer at one time or another. It follows that the course in mechanical engineering should be very broad, providing sound training in the fundamentals underlying engineering work. Strictly engineering work may be divided into three divisions—design, construction, and erection and maintenance of machinery of all kinds, including airplanes, automotive and marine machinery, steam turbines, steam engines, internal combustion engines, refrigerating, heating and ventilating equipment, locomotives and railway accessories, iron and steel production and fabricating machines, machine tools, woodworking tools, and many other machines of more special and limited character.

Outside of the field of purely engineering work, there is an increasing demand for engineers for the sale of technical equipment where an engineering knowledge is essential, and for executive and management work. Many industries are finding it profitable to utilize the technical knowledge of the engineer in positions of responsible executive work. Therefore, this course instructs the students in the fundamentals of good management and endeavors to give an appreciation of the human element in all engineering.

Practice work in the pattern shop, foundry, and machine shop is designed to instruct in methods rather than impart skill.

During the senior year it is possible for the student to elect courses in definite fields, such as refrigeration, internal combustion engines, and aeronautics.

Training in habits of accurate analysis and logical thinking, the prerequisites of a good engineer, are emphasized.

PETROLEUM PRODUCTION ENGINEERING

The course in petroleum production engineering is intended to prepare students for the petroleum industry and particularly for those parts of the industry which have to do with the production and transportation of petroleum. The field of the engineer in the petroleum industry may be roughly divided into two parts.

The first is the production of crude oil, involving as it does determination of locations of drilling equipment, types of equipment to be used, the kind of power to apply, determination of the source of water in the oil and methods of excluding it; selection of types and sizes of pumps and methods of operating them. Closely allied with the production, and in fact usually

considered a part of it, is the design, construction and operation of pipe lines and pump stations to transport the oil.

The course in petroleum production engineering includes sufficient training in civil, mechanical and electrical engineering to prepare the graduate for the application of engineering principles in the petroleum industry. Courses in geology give an understanding of the origin of petroleum and the geological structures which are found in oil fields. To the basic subjects are added courses in petroleum engineering which illustrate the application of engineering principles to the type of problems met in the petroleum industry, and which also give some understanding of the technique of the industry. Emphasis is placed on thorough grounding in the fundamentals, however, rather than on the application to particular problems.

The second division of the petroleum industry is the refining of crude oils to produce gasolene, kerosene, lubricating oils and similar products. The student who is interested in this division will find an opportunity to prepare himself for it through the course in chemical engineering. If the student is interested in the field of petroleum geology rather than in the engineering fields presented by the industry, he may prepare himself for this profession by taking work offered in the School of Arts and Sciences.

TEXTILE ENGINEERING

The object of this course is to prepare young men for the field of cotton manufacturing. The unprecedented development of the cotton milling industry in the South has created a demand for educated young men in the industry. Texas offers excellent advantages for the manufacture of cotton goods in its vast supply of raw material, intelligent labor, and excellent climatic conditions, and it is believed that cotton manufacturing will develop as rapidly as skilled and capable managers familiar with local conditions are to be had.

Graduates of this course are prepared to enter the cotton mills as machinery operatives. After a study of labor conditions and requirements they are in line for positions as overseers, superintendents and managers. Graduates may also find employment in the fields of mill engineering and architecture, installation of equipment, dyeing and the sale of machinery and supplies.

TWO-YEAR COURSE IN COTTON MARKETING AND CLASSING

The two-year course in cotton marketing and classing is intended for the student who expects to enter the cotton business either as a buyer or office man. It is designed to familiarize the student with the position of cotton among agricultural resources, the economics of cotton, business law, marketing, and waste in manufacture as related to cotton. The fundamental principles and important details of cotton office accounting are emphasized. The course includes, in addition to the fundamental subjects, some general educational courses which will better fit the student for the cotton business.

THE SCHOOL OF VETERINARY MEDICINE

VETERINARY MEDICINE

This course has for its object the systematic training of young men in all matters pertaining to diseases of domestic animals.

The freshman and sophomore years are in large measure devoted to the physical and biological studies that contribute so much to an understanding of problems of health and disease. The junior and senior years are devoted to studies of a technical nature.

Those who expect to engage in ranching, dairying or some other branch of animal industry, will find the course of great value to them in preventing serious losses from diseases or mismanagement of their animals. Those who possess a biological mind will find it an interesting life study, and such men are in great demand in matters of public health or as investigators in experiment stations. Those who pursue the course from commercial motives will find that its rewards are similar to those of any other form of human endeavor in that they will always be in proportion to the intelligence and energy displayed by the individual.

When it is recalled that the value of domestic animals in Texas is about five hundred million dollars, it becomes apparent that men informed on such matters are of great value to the State.

THE SCHOOL OF VOCATIONAL TEACHING

The following four-year courses are offered in the School of Vocational Teaching:

Agricultural Education. Industrial Arts Education. Industrial Education. Rural Education.

AGRICULTURAL EDUCATION

This course is designed to give the teacher of vocational agriculture the preparation and training in both technical agriculture and in education required to qualify under the Federal Vocational Education Act. The course permits a sufficient number of electives to enable students coming from junior colleges and teachers' colleges to transfer to this institution with little or no loss of time.

Graduates of approved institutions having satisfactory training in the sciences underlying the study of agriculture will be awarded the degree of Bachelor of Science in Agricultural Education upon satisfying the following requirements: (1) forty-five semester hours of technical agriculture; (2) fourteen semester hours of education subjects as prescribed in the curriculum, and (3) at least one year's residence.

INDUSTRIAL ARTS EDUCATION

The purpose of this course is to prepare teachers of industrial arts, or manual training in the public schools. The course is arranged so that during the first three years the student will obtain a general training in fundamental technical courses. The large number of electives in the senior year will permit him to specialize in the one or two courses he prefers to teach.

The junior high school movement has created a demand for well-trained instructors for this type of work. Any young man, mechanically inclined and interested in boys and their work, should find this a profitable course.

INDUSTRIAL EDUCATION

This course is intended to train teachers, supervisors, and directors for the general continuation and trade and industrial schools of Texas. Since students completing this course are to qualify as teachers under the State plan for Vocational Education, a candidate for a degree in Industrial Education must satisfy one of the following requirements:

- 1. Seven years' experience (three beyond the apprenticeship period) as a wage earner at the trade the student intends to teach. (For teachers of shop work).
- 2. Two years of practical experience as a wage earner in a trade or industrial occupation and two years of technical training in a school of engineering. (For teachers of related subjects).
- 3. Four years of technical training in a school of engineering. (For teachers of related subjects).

The candidate for a degree in this course must also have at least one year of successful teaching, covering not less than 144 clock hours, in some phase of trade and industrial work under the Smith-Hughes Act.

RURAL EDUCATION

This course is offered in response to the increasing demand for high school principals and superintendents who have had the benefit of an agricultural college education in their preparation for leadership in the solution of rural life problems. The curriculum in rural education permits the student to qualify for the various elementary and high school certificates granted on college credits by the State Department of Education.

Teachers Certificates—1. An elementary certificate good for four years, or a high school certificate good for two years, may be obtained upon completion of the work prescribed for Freshmen in the course in rural education, or its equivalent.

- 2. An elementary certificate good for six years may be obtained on completion of two years work in rural education, or its equivalent.
- 3. By substituting Rural Education 321 and 322 for Rural Education 221 and 222, the student may qualify for a four-year high school certificate at the end of his second year in college.

- 4 A high-school certificate, good for six years, may be obtained on completion of three years work in rural education or its equivalent.
- 5. The permanent high-school certificate may be obtained upon completion of the four year course in rural education, or its equivalent.

Teachers Appointment Service—The teachers appointment service, under the direction of the School of Vocational Teaching, endeavors to assist graduates and students of the College in securing suitable teaching positions, and to assist boards of education and other school officials in securing teachers. While no one is assured of a position, every reasonable effort will be made to place all worthy candidates registered for this service. Information obtained from professors and others is confidential. No charge is made for this service. Applicants should address the Dean of the School of Vocational Teaching.

THE GRADUATE SCHOOL

General Statement.—The Graduate School of the Agricultural and Mechanical College of Texas was established in 1924. Prior to that time graduate work was administered by the general faculty, acting through a committee on Graduate Studies. The faculty of the Graduate School consists of such members of the teaching staff and of the staff of the Agricultural Experiment Station as the general faculty may determine, and has general jurisdiction over all matters relating to graduate work.

Administration.—Matters of general policy are considered by the Graduate Council, which reports its recommendations to the faculty of the school concerned. In cases in which prompt action is desirable, the Council is authorized to act, reporting its action to the faculty for ratification.

The Executive Committee, consisting of eight members of the Council, is authorized in routine matters to take action in accordance with the general policies.

The Dean of the Graduate School is the representative of the faculty in dealing with individuals, and is charged with the execution of its regulations. Petitions are acted upon by the Dean or by the Executive Committee, as the case may require.

All communications relating to graduate work should be addressed to the Dean of the Graduate School.

Character of Graduate Work—The principal aim of graduate study is the development of the power of independent work and the promotion of the spirit of research. Each candidate for a degree is expected to have a wide knowledge of his subject and of related fields of work; the graduate student is not expected to get from lecture and laboratory courses all the knowledge and training necessary to meet the requirements for his degree.

Graduate study presupposes a higher standard of excellence than undergraduate study. No graduate credit is granted for work of lower grade than "B"C.

As receive Med Alegen, Candidate must have sound 48 D.P. on not to exceed 32 credit hours. Degrees.—The completion of an approved course of study in the Graduate School leads to the degree of Master of Science. Professional degrees in Engineering—Agricultural Engineer, Chemical Engineer, Civil Engineer, Electrical Engineer, Mechanical Engineer—are offered on the basis of acceptable professional experience, a thesis, and an examination.

REQUIREMENTS FOR THE MASTER'S DEGREE

General.—The Master's degree denotes that attainment which a student of good native ability, who has received an appropriate Bachelor's degree, may reasonably expect to attain in one year of entire and successful devotion to advanced studies, with adequate facilities and under competent direction. The courses of study leading to this degree do not make research the chief consideration, but are intended to serve as an introduction to the methods and discipline of research

Specification as to Course.—The course of study pursued is specified in the diploma. In his application for admission, the student must designate his major course of study.

Admission.—In order to be admitted to a course of study leading to the Master's degree, the candidate must satisfy the following requirements:

- 1. He must be a graduate of this College or of some other approved institution whose requirements for graduation are substantially equivalent to those of this College.
- 2. To major in any department, a candidate for the Master's degree must meet the requirements of that department for the Bachelor's degree at this College. This is especially important as regards basic sciences and fundamental technical subjects.

To minor in any department, the candidate must meet such undergraduate requirements as, in the opinion of the head of the department concerned, are prerequisite to the graduate courses taken.

3. His undergraduate record must be of such high order as to satisfy the committee that he is qualified by native ability and by training to pursue graduate studies with profit and with credit. In case it does not fully meet this requirement, the committee may require the completion of additional undergraduate work with a grade of at least "B".

Application.—Application for admission should be made at least one month in advance, and in case the candidate comes from another institution, his application must be accompanied by a complete transcript of his undergraduate record, properly certified.

Admission to Candidacy.—Admission as a graduate student does not imply admission as a candidate for a degree. In order to become a candidate for an advanced degree, the student must make formal application—in the regular session before December 15 and in the summer session one week before the close of the first term. The application will be approved only in case the

student has demonstrated his ability to do graduate work in a creditable manner

Registration.—Graduate students must register at the beginning of each semester at the office of the Registrar and of the Dean.

Amount of Work.—The candidate for the degree of Master of Science must do at least one full year's work. By this is meant that he must register for, attend, and complete at least eight full-semester courses, and in addition must submit a satisfactory thesis.

Course of Study.—The subjects constituting the student's complete course of study are to be chosen subject to the approval of the Executive Committee. Of the eight full-semester courses required, at least seven must be done in this College.

In general, the work must be made up of graduate courses, and in every case must include at least three full-semester courses each semester in addition to the thesis. In cases in which it may be deemed advisable, the remainder may consist of advanced undergraduate courses Each hour of theory involves two hours of preparation.

Major and Minor Subjects.—For the degree of Master of Science, the candidate must choose a major subject and one or two minor subjects. A major or minor denotes the field of knowledge of a department. With the approval of the Executive Committee, the major may be taken in two closely allied departments. In his major subject the student must take at least two full-semester courses each semester, in addition to his thesis. Courses in minor subjects must be chosen by the student after consultation with the head of his major department.

Residence.—The Master's degree will not be conferred except after a residence of at least one year at the College. For candidates engaged in teaching or other regular employment, the period of residence will be increased to such extent as the committee may determine Members of the staff may not take in any semester of the regular session more than one-fourth of a full semester's work.

Work in Summer Session.—The residence requirement may be satisfied by residence during four summer terms of six weeks each. Courses offered in the summer session cover essentially the same ground as that covered by the corresponding courses of the regular session. The maximum amount of work for which a student may register in a summer term is two full-semester courses. In the summer session, each hour of theory involves three hours of preparation.

The candidate who spends only four summer terms in residence may full-fill the requirements for the Master's degree, provided that, in the *ad interim* periods between summer sessions, he does the greater part of the work on his thesis. Authority to do thesis work in this way must be obtained through the Dean, and the student must make such reports of progress as the head of his major department may require.

Extension Class Work.—Work done in extension classes may be allowed

graduate credit to the extent of not more than six credit hours, provided:

- 1. That in each case both the course and the instructor be approved by the Committee on Graduate Studies and by the faculty of the Agricultural and Mechanical College of Texas.
- 2. That before taking such a course the applicant be accepted by the Registrar for admission to the Graduate School and admitted to the course by the Committee on Graduate Studies.
- 3. That no such credit be finally allowed as part of the requirements for a degree in this institution until the student has demonstrated, by work done in residence at the Agricultural and Mechanical College of Texas, that he can pursue graduate study with profit.

Students who are in residence during summer sessions only must do the greater part of their thesis work between summer sessions, as stated above.

Short Unit Courses.—For the benefit of teachers of vocational agriculture whose summer vacation is limited to three weeks, provision is made by which they may take the first half of a course one summer and the second half another summer. The letters "M" and "N" written after a course refer, respectively, to the first and second half of the course Credit is not given until both halves have been completed.

Courses Offered by Experiment Station Staff.—In addition to the courses offered by the several departments of instruction, there are graduate courses offered by members of the Agricultural Experiment Station staff and described under the respective departments of instruction.

Special Opportunity for the Study of Cotton.—The College offers unusual opportunity for the thorough study of cotton in all its phases. The following graduate courses in that field are described under the respective departments: Advanced Cotton Production, Genetic Studies in Cotton, Research in Cotton Breeding, Research in the Physiology of the Cotton Plant, Cotton Insects, the Diseases of Cotton, Cotton Seed Oil, Cotton Machinery, Cotton Marketing Problems. Undergraduate courses in this field include: The Cotton Plant, Fiber Crops, Cotton Insects, Cotton Research Problems, Cotton Machinery, Cotton Marketing. The manufacture of cotton is covered in the courses offered by the Department of Textile Engineering.

Quality of Work.—In order to be allowed to go on with his course, a graduate student must give continued satisfaction in his work.

Initiative.—In carrying on his work in the Graduate School, the student is expected to keep himself informed as to the regulations and to assume the initiative in complying with them.

Thesis.—The candidate must submit a thesis, which shall be based upon his work in the department in which he takes his major subject. Its title must be submitted to the committee for approval, through the head of the department in which it is to be written, by November 15. In matter and style, the thesis must be acceptable to the head of the department in which it is written and to the committee. It must show that the candidate has the abili-

ty to do independent work; and, by correct citation of authorities, must show he has satisfactory acquaintance with the literature of his field.

The thesis must be typewritten on paper 8½ inches by 11 inches; three weeks before commencement it must be presented to the Dean through the head of the department, in completed form, ready for binding. Before the degree is conferred, a bound copy for the College library must be deposited with the Dean.

Examinations—At the close of the semester, written examinations are held in each graduate course, and it is the duty of the head of the department concerned to file with the Dean a copy of the questions. In addition to the semester examinations, a student must pass a final examination covering his entire course of study and his thesis. The final examination may be oral or written, or both, and is open to the committee and to members of the Faculty.

Reports.—Heads of Departments will make reports to the Registrar at the end of each semester on all graduate work done in their respective departments, and such other reports on the progress of their graduate students as the Dean may request.

Special Committee.—The instructors under whom a graduate student takes work constitute a special committee to direct and advise him concerning his work and to represent him before the Executive Committee. The instructor in charge of the major subject shall be chairman of the special committee in each case.

Fees.—A statement of the fees to be paid by graduate students is given under "Expenses" in Part III

Leaves of Absence or Withdrawal.—Requests for authority to be absent from the College or to withdraw permanently must be presented to the Dean through the Commandant.

Graduation.—Candidates for advanced degrees who expect to complete their work at the end of a given semester must give written notice to the Dean to that effect at least one month in advance. When a candidate has, to the satisfaction of the Executive Committee, completed the requirements for an advanced degree, he will be recommended to the faculty for his degree.

PROFESSIONAL DEGREES IN ENGINEERING

The professional degrees in engineering, Agricultural Engineer, Chemical Engineer, Civil Engineer, Electrical Engineer, Mechanical Engineer, are open only to men who have received from this College the degree of Bachelor of Science or Master of Science in an engineering course.

The requirements for any one of these degrees include acceptable professional experience, a thesis and an examination. In detail, the requirements are as follows:

The candidate must have been engaged in acceptable professional work for a period of not less than four years after graduation, and must have been in responsible charge of such work for at least one year. The applicant who holds the degree of Master of Science in an engineering course is regarded as having met the time requirement if he has devoted three years to professional practice or to teaching engineering subjects.

In connection with his application for authority to register, the candidate must submit an orderly and detailed statement of his professional experience for the consideration of the Executive Committee He must also submit the title and a general outline of the thesis.

At a time to be designated by the Dean he must report to the College for an examination covering his professional experience, his thesis and the research or study which forms its basis.

The thesis must correspond in form to the Master's thesis described above. It must not be simply a descriptive discussion of some ordinary engineering project, nor a digest of engineering literature, but must be of an analytical character, and must constitute a distinct contribution to engineering science. The thesis in final form must be in the hands of the Dean three weeks before commencement.

The degree is conferred only at commencement, and application for registration must be made not later than November 1, preceding. In case a student does not complete the work for his degree within two years after registration, his registration will be cancelled.

The matriculation fee of \$5.00 is to be paid upon registration.

FELLOWSHIPS OFFERED BY THE COLLEGE

The College offers annually a limited number of graduate fellowships, each carrying a stipend of \$500. Payments are made in eight equal installments.

An applicant for a fellowship must meet the requirements for admission to the Graduate School and must express his intention of completing in this College the requirements for the Master's degree. He must also agree, in consideration of the award, to render a reasonable amount of service, to be determined by the Dean of the Graduate School and the head of the department in which he takes his major work.

Application must be made on forms to be obtained from the Dean of the Graduate School and must be accompanied by a letter of recommendation from the President or other officer of the institution from which the applicant comes.

Nominations to fellowships are made on the basis of worthiness of character, scholastic attainments, and promise of sucess in the principal field of study to which the applicant proposes to devote himself. They are made by the Dean of the Graduate School, subject to the approval of the President.

ADDITIONAL FELLOWSHIPS

For information concerning the fellowships listed below, address the Dean of Engineering.

of Engineering.	_
Stipen	d
Texas Power and Light Company Fellowship\$600.0)0
Open to graduate students in Electrical Engineering	
or Mechanical Engineering.	
Texas Rock Asphalt Fellowship)()
For the study of the uses of Texas Rock Asphalts.	
2 Texas Cotton Seed Crushers' Association fellowships, each 600.0)()
2 National Cotton Seed Products Association Fellowships, each 600.0)(
For the study of cotton seed oil mill problems.	

NORTH TEXAS CHAPTER, A. I. A. HONORS

The North Texas Chapter of the American Institute of Architects, Dallas, Texas, awards annually Certificates of Merit to students who have done the most creditable work in architectural design throughout the school year.

THE WITCHELL MEDAL IN ARCHITECTURE

Mr. Frank O. Witchell of the firm of Lang and Witchell, Architects, Dallas, Texas, awards annually a gold and a silver medal to senior students in architectural design. The medals are awarded for work done in the advanced courses in design and upon competitions approved by Mr. Witchell.

CURRICULA

Theory, Practice.—In the curricula shown on the following pages, figures in parenthesis following the number of the course indicate the clock hours per week devoted to theory and practice respectively. Theory includes recitations and lectures; practice includes work in the laboratory, shop, drawing room or field.

Credit.—The credit value of the course is indicated in the column headed "Credit." The unit of credit is the "semester hour," which involves one hour of theory, or from two to four hours of practice per week for one semester of eighteen weeks.

Physical Education.—All first year students are required to take Physical Education 101, 102 as a part of the freshman work

English Conferences.—Students enrolled in courses in English composition are required to attend conferences with their instructors.

Assemblies.—In most of the teaching divisions of the College students are required to attend assemblies at intervals during the session. Prominent speakers are presented at these assemblies for the discussion of topics of general and special interest.

THE SCHOOL OF AGRICULTURE

COURSE IN AGRICULTURE

FRE	SHMAN	YEAR	
First Semester Cre	edit	Second Semester Cre	dit
Agricultural Economics 101 (3-0)	3	Agricultural Economics 102(3-0)	3
Agricultural Resources Animal Husbandry 107(2-4) General Animal Husbandry	3	Agricultural Resources Agronomy 105(3-2) Crop Production	4
Biology 101(2-4)	3	Biology 102(2-4)	3
General Botany Chemistry 101(3-3)	4	General Botany Chemistry 102(3-3)	4
Inorganic Chemistry		Inorganic Chemistry	
English 103(3-0) Rhetoric and Composition	3	English 104(3-0) Rhetoric and Composition	3
Military Science(1-2)	1	Military Science(1-2)	1
	17		18
SOP	HOMORE	YEAR	
†Biology 207(2-4)	3	Agricultural Eng. 201(2-2)	3
Zoology Dairy Husbandry 202(2-2)	3	Farm Machinery †Biology 206(1-4)	2
Dairying English 203(2-0)	2	Bacteriology Chemistry 212(3-0)	3
Composition and Literature	4	Agricultural Chemistry	
Entomology 201(2-2) General Entomology	3	Chemistry 214(1-3) Agricultural Analysis	2
Horticulture 201(2-2)	3	‡English 210(2-0)	2
Plant Propagation	_	Argumentation	
Military Science(1-2) *Elective	1 3	Military Science(1-2) *Elective	1 3
	-		1€
*To be about	18	the following:	16
Agricultural Eng. 203(2-2)		Animal Husbandry 202(2-2)	3
Gas Engines		Breed Types	-
Animal Husbandry 203(2-2) Market Classes and Grades	3	Horticulture 202(2-2) Vegetable Gardening	3
Poultry Husbandry 201(2-2) Poultry Production	3	vegetable Gardening	
•			
GROUP 2. AGR	ICULT	URAL EDUCATION	
ar .	UNIOR Y	ZEAR	
Agricultural Education 301(3-0)		Agricultural Education 302(3-0)	3
Educational Psychology		Principles of Education	
Agricultural Engineering 321(1-3) Farm Shop	2	Agricultural Engineering 322(1-3) Farm Shop	2
Agronomy 301(3-2)	4	Economics 403(3-0)	3
Soils Elective	9	Principles of Economics §English 307(2-0)	2
	18	Technical Writing	8
	20	LICCUITO	-
			18

[†]One half of the class will take Biology 207 the first semester and Biology 206 the second semester. The other half will take those subjects in reverse order. Students who intend to take Group 4 or 9 should substitute Biology 213, Plant Physiology, for Biology 207.

‡For possible substitutions, see the description of English 210, page 158.

§Or English 317, Commercial Correspondence. For possible substitutions see the description of English 307, page 158.

SI	ENIOR	YEAR	
First Semester Cre		Second Semester Cred	dit
Agricultural Education 401(2-6) Teaching Vocational Agriculture	4	Agricultural Education 402(2-6) Teaching Vocational Agriculture	4
History 305(3-0) Citizenship	3	Teaching Vocational Agriculture Agricultural Engineering 424(0-3) Terracing	1
Marketing and Finance 302(3-0)	3	English 401(2-0)	2
Marketing Elective	8	Public Speaking Farm and Ranch Mgmt. 401(3-2)	4
	18	Farm Management Elective	7
			18
GROUP 3 AGRIC	ин ті	JRAL ENGINEERING	
*		YEAR	
Agricultural Engineering 305(2-3)		Agricultural Engineering 216(3-3)	4
Terracing and Drainage Agronomy 301(3-2)		Automotive Machinery Economics 403(3-0)	3
Soils		Principles of Economics	-
Elective	11	*English 307(2-0) Technical Writing	2
	18	Elective	8
			18
	ENIOR		
Agricultural Engineering 413(2-3) Farm Buildings	3	Agricultural Engineering 426(1-0) Seminar	1
Agricultural Engineering 425(1-0) Seminar	1	English 401(2-0)	2
History 305(3-0)	3	Public Speaking Farm and Ranch Mgmt. 401(3-2)	4
Citizenship Marketing and Finance 302(3-0) Marketing	3	Farm Management Elective	11
Elective	8		18
	18		
GROUP	4. A	GRONOMY	
	JNIOR		
Agronomy 301(3-2) Soils	4	Agronomy 308(2-2)	3
Economics 403(3-0)		Forage Crops Agronomy 314(3-2)	4
Principles of Economics Genetics 301(3-2)	4	*English 307(2-0)	2
Genetics Elective	7	Technical Writing Genetics 304(3-2)	4
•	18	Plant Breeding Elective	5
			18
SI	ENIOR		1 c
Agronomy 413(3-0)		Agricultural Engi: eering 424 (0-3)	1
Soil and Crop Problems Agronomy 415(1-8)	1	Terracing Agronomy 416(1-0)	1
Soils and Crops Seminar Animal Husbandry 409(3-2)	4	Soils and Crops Seminar English 401 (2-0)	•
Animal Nutrition and Feeding	3	Public Speaking .	۷.
Marketing and Finance 302(3-0) Marketing	-	Farm and Ranch Mgmt. 401(3-2) Farm Management	4
Elective	7	History 305(3-0) Citizenship	3
	18	Elective	7
			18

^{*}Or English 317, Commercial Correspondence. For possible substitutions see the description of English 307, page 158.

GROUP 5. ANIMAL HUSBANDRY

JUNIOR YEAR First Semester Credit Second Semester Credit Economics 403 Agronomy 301 Principles of Economics *English 307 Soils Animal Husbandry 303(3-2) 4(2-0) 2 Technical Writing Animal Nutrition . Genetics 301 Genetics 306 Animal Breeding Veterinary Anatomy 302(2-2) 3 Genetics 6 Elective Anatomy and Physiology 18 Elective 7 18 SENIOR YEAR(3-0) 3 History 305 Agricultural Engineering 424 (0-3) Citizenship Terracing Marketing and Finance 302(3-0) 3(2-0) 2 English 401 Marketing Public Speaking Farm and Ranch Mgmt. 401(3-2) 4 Veterinary Medicine 403(3-2) 4 Animal Diseases Farm Management Elective 8 17 Elective 18 NOTE.-In group 5, the senior electives must include at least one course in Animal Husbandry each semester. GROUP 7. DAIRY HUSBANDRY JUNIOR YEAR Agronomy 301(3-2) 4 Dairy Husbandry 306(3-2) 4 Butter Making; Factory Mgmt. Soils Economics 403(3-0) 2 Principles of Economics *English 307(2-0) 2 Technical Writing Elective Genetics 301(3-2) 4 9 Genetics 3 18 Elective 18 SENIOR YEAR Agricultural Engineering 424(0-3) 1 Animal Husbandry 303(3-2) 4 Animal Nutrition History 305 Citizenship Terracing(3-0) 3 English 401(2-0) 2 Public Speaking Farm and Ranch Mgmt. 401(3-2) 4 Marketing and Finance 302(3-0) 3 Marketing Farm Management Elective 8 Elective 11 18 15 NOTE.—In group 7, senior year, one course in Dairy Husbandry must be elected each semester. GROUP 8. ENTOMOLOGY JUNIOR YEAR Agronomy 301(3-2) 4 Economics 403 Principles of Economics Soils Entomology 301(2-4) 3 *English 307 glish 307(2-0) 2 Technical Writing Systematic Entomology 11 Elective(2-4) 3

Elective

10

18

18

^{*}Or English 317. For possible substitutions, see the description of English 307, page 158.

SENIOR YEAR First Semester Credit Second Semester Credit Entomology 401(2-4) ? Agricultural Engineering 424(0-3) 1 Economic Entomology Terracing Genetics 301(3-2) 4 English 401 Genetics Public Speaking History 305(3-0) 3 Entomology 402 Citizenship Economic Entomology Elective 8 Elective 12 18 18 GROUP 9. HORTICULTURE JUNIOR YEAR Agronomy 301 _____(3-2) 4 Economics 403 Principles of Economics Soils Genetics 301(3-2) *English 307(2-0) 2 glish 307 Technical Writing Genetics Horticulture 317(2-3) 3 Genetics 304(3-2) 4 Fruit Production Plant Breeding 7 Horticulture 310 Commercial Veg. Production Horticulture 318 Elective(2-2) 3 18(2-3) 3 Fruit Production Elective 3 18 SENIOR YEAR Agricultural Engineering 424 (0-3) 1 Horticulture 401(3-2) 4 Terracing Pomology Horticulture 423 Biology 416 Horticultural Industries Plant Diseases English 401(2-0) 2 Horticulture 425(2-0) 2 History and Literature Public Speaking History 305 Marketing and Finance 302(3-0) 3(3-0) 3 Marketing Citizenship 7 Elective 9 Elective 18 18 NOTE.-For the second semester of the senior year, the electives in Group 9 must include one course in Horticulture. GROUP 11. POULTRY HUSBANDRY JUNIOR YEAR Agronomy 301(3-2) 4 Economics 403(3-0) 3 Principles of Economics Soils Genetics 301(3-2) glish 307(2-0) 2 Technical Writing *English 307 Genetics Poultry Husbandry 301(2-2) {(2-0) 2 Market Poultry 7 Poultry Husbandry 302 Elective(3-2) 4 Feeding and Brooding 18 Elective 7 18 SENIOR YEAR Marketing and Finance 302(3-0) 3 Agricultural Engineering 424(0-3) 1 Marketing Terracing Poultry Husbandry 401(2-2) 3 Poultry Management English 401(2-0) 2 Poultry Husbandry 403(2-2) 3 Poultry Judging Poultry Husbandry 402(2-2) 3 Elective _____ 9 Poultry Farming 18 Elective 9 18

^{*}Or English 317. For possible substitutions, see the description of English 307, page 158

GROUP 12. RURAL SOCIOLOGY

JUNIOR YEAR

First Semester Cre	dit	Second Semester Cre	dit
Rural Education 321(3-0) Secondary School Methods	3	Economics 403(3-0) Principles of Economics	3
Rural Sociology 311(3-0) Social Psychology	3	Rural Education 322(3-0) Secondary School Administration	
Elective	12	Rural Sociology 312(3-0)	3
	18	General Sociology Elective	9
			18
SI	ENIOR	YEAR	
History 305(3-0)	3	English 401(2-0) Public Speaking	2
Rural Sociology 405(2-2) Social Research	3	Marketing and Finance 302(3-0) Marketing	3
Rural Sociology 407(2-2) Rural Sociology	3	Rural Organization (3-0)	
Rural Sociology 415(2-2) Agricultural Journalism	3	Elective	_
Elective	6		18
	10		

COURSE IN AGRICULTURAL ADMINISTRATION

FRESHMAN YEAR

First Semester Cre	dit	Second Semester Cre	dit
Agricultural Economics 101(3-0) Agricultural Resources	3	Agricultural Economics 102(3-0) Agricultural Resources	3
Agronomy 105(3-2) Crop Production	4.	Animal Husbandry 107(2-4) General Animal Husbandry	3
Chemistry 101(3-3) Inorganic Chemistry	4	Chemistry 102(3-3) Inorganic Chemistry	4
English 103(3-0) Rhetoric and Composition	3	English 104(3-0) Rhetoric and Composition	3
Mathematics 101(3-0)	3	Mathematics 102(3-0) Algebra	3
Military Science(1-2)	1	Military Science(1-2)	1
	18		17

NOTE.—At the beginning of the Sophomore year the student will choose one of the following groups: 1. Accounting and Statistics; 2. Agricultural Economics; 3. Farm and Ranch Management; 4. Marketing and Finance.

· cocinimina in a continuo

GROUP 1. ACCOU	UNTIN	G AND STATISTICS	
SOPI	HOMORI	E YEAR	
Accounting & Statistics 201(3-3) Principles of Accounting	4	Accounting & Statistics 202(3-3) Principles of Accounting	4
Principles of Economics (3-0)	3	Principles of Economics (3-0)	3
English 203 (2-0) Composition and Literature	2	*English 210 (2-0) Argumentation	2
Military Science (1-2)	1 6	Military Science (1-2)	1
·	16	,	16
*	10		10
J	JNIOR :	YEAR	
Accounting & Statistics 301(3-3) Theory and Practice of Accounting		Accounting & Statistics 302(2-3) Advanced Problems	3
Accounting & Statistics 303(3-3) Statistical Method		Accounting & Statistics 401(2-3) Cost Accounting	3
†Elective	10	Accounting & Statistics 406(2-3) Agricultural and Business Cycles	3
	18	†Elective	9
			18
si	ENIOR ?	YEAR	
‡Accounting & Statistics ,407(3-3)	4	‡Accounting & Statistics 402(1-3) Co-operative Accounting	2
English 401 (2-0) Public Speaking	2	†Elective	16
History 305(3-0)	3		18
†Elective	9		

^{*} For possible substitutions see description of English 210, page 158.
† Electives must be approved by the Head of the Department of Accounting and Statistics. In the sophomore and junior years, students planning to specialize in Statistics will find it desirable to elect the following subjects: Engineering Drawing 111 (Mechanical Drawing): Mathematics 103 (Trigonometry); Mathematics 104 (Analytics); and Mathematics 203-204 (Calculus).
‡ A. and S. 404 (Advanced Statistics) and A. and S. 405 (Price Analysis) may be substituted.

GROUP 2. AGRICULTURAL ECONOMICS

SOPHOMORE YEAR

First Semester Cre Accounting & Statistics 201(3-3) Principles of Accounting Economics 203(3-0) Principles of Economics English 203	3 · 2 1	Second Semester Cre Accounting & Statistics 202(3-3) Principles of Accounting Economics 204(3-0) Principles of Economics English 210(2-0) Argumentation Agronomy 301(3-2) Soils Military Science(1-2)	3 2
. 1	UNIOR	YEAR .	
Accounting & Statistics 303(3-3) Statistical Method History 305	4 3	Agricultural Economics 312(3-0)	3 2 3 3
			18
Agricultural Economics 423(3-0) Outline of Land Economics Economics 413(3-0) Advanced Economic Theory English 401(2-0) Public Speaking Farm & Ranch Mgmt. 401(3-2) Farm Management *Elective	3 3 2 4 6 18	YEAR Agricultural Economics 402(3-0) Property and Contract Economics 414(3-0) Advanced Economic Theory *Elective	3 3 12 18
GROUP 3. FARM	& RA	NCH MANAGEMENT	
SOPI	HOMORI	E YEAR	
Accounting & Statistics 201(3-3) Principles of Accounting Economics 203	4 3 2 1 3 3 16	Accounting & Statistics 202	4 3 2 1 3 17

^{*} Electives must be approved by the Head of the Department concerned.
† For possible substitutions see description of English 210, page 158.
† Or one of the following: Dairy Husbandry 202, Entomology 201, Horticulture 201, Poultry Husbandry 201.
§ Or English 317. For possible substitutions see description of English 307, page 158.

JUNIOR YEAR

First Semester Cre	edit	Second Semester Cre	dit
Agricultural Engineering 321(1-3)	2	Agricultural Economics 312(3-0)	3
Farm Shop Animal Husbandry 409(3-2)	4	Agricultural Economics Agronomy 314(3-2)	4
Animal Nutrition ‡English 307(2-0)	2	Field Crops Dairy Husbandry 202(2-2)	3
Technical Writing Farm & Ranch Mgmt. 301(2-2)	3	Dairying Poultry Husbandry 302(3-2)	4
Farm Records & Cost Analysis *Elective	7	Feeding and Brooding *Elective	4
	18		18
S.	ENIOR Y	7 TET A 10	
English 401(2-0)	2	Agronomy 308(2-2)	3
Public Speaking Farm & Ranch Mgmt. 401(3-2)	_	Forage Crops Farm & Ranch Mgmt. 404(1-6)	3
Farm Management History 305(3-0)	3	Field Studies *Elective	12
Citizenship		Elective	18
*Elective	9		10
	18		
GROUP 4. MAI	RKETIN	NG AND FINANCE	
SOP	HOMORE	YEAR	
Accounting & Statistics 201(3-3) Principles of Accounting	4	Accounting & Statistics 202(3-3) Principles of Accounting	4
Economics 203(3-0) Principles of Economics	3	Economics 204 (3-0) Principles of Economics	3
English 203 (2-0) Composition and Literature	2 .	†English 210 (2-0) Argumentation	2
Military Science	1 3	Marketing and Finance 302(3-0) Marketing	3
Citizenship	_	Marketing Military Science(1-2) *Elective	1 3
*Elective	3	Elective	_
-	16	EAD.	16
Accounting & Statistics 303(3-3)	UNIOR 3	Accounting & Statistics 406(2-3)	3
Statistical Method	3	Agricultural and Business Cycles Marketing and Finance 404(3-0)	
Economics 311(3-0) Money and Banking Marketing and Finance 401(3-0)	3	Transportation	
Co-operative Marketing	-	*Elective	12
*Elective	8		18
	18		
English 401(2-0)	ENIOR Y		
Public Speaking		Corporation Finance	3
Wholesale and Retail Merchandis	ing	Marketing and Finance 402(3-0) Agricultural Finance	3
*Elective	13	*Elective	12
	18		18

^{*} Electives must be approved by the Head of the Department concerned.
† For possible substitutions see description of English 210, page 158.
‡ Or English 317. For possible substitutions see description of English 307, page 158.

COURSE IN AGRICULTURAL ENGINEERING

FRE	SHMAN	YEAR	
First Semester Cre	edit	Second Semester Cre	dit
Agricultural Engineering 103(0-3)	1	Agricultural Engineering 104 (0-3)	1
Farm Building Construction Animal Husbandry 107(2-4)	3	Farm Building Construction Agronomy 105(3-2)	4
General Animal Husbandry Chemistry 101(3-3)	4	Crop Production Chemistry 102(3-3)	4
Inorganic Chemistry English 103(3-0)	3	Inorganic Chemistry English 104(3-0)	3
Rhetoric and Composition	-	Rhetoric and Composition	-
Mathematical Analysis (6-0)	6	Mathematics 112(6-0) Mathematical Analysis	6
Military Science(1-2)	1	Military Science(1-2)	1
	18		19
SOP	HOMORE	YEAR	
Agricultural Engineering 203(2-2)	3	Agricultural Engineering 216(3-3)	4
Gas Engines Engineering Drawing 111(0-6)	2	Automotive Machinery Civil Engineering 204(3-0)	3
Mechanical Drawing English 203(2-0)	2	Analytic Mechanics *English 210(2-0)	2
Composition and Literature Mathematics 203(5-0)	5	Argumentation Mathematics 204(5-0)	5
Calculus		Calculus	_
Military Science(1-2) Physics 203(3-3)	1 4	Military Science (1-2) Physics 204 (3-3)	14
General Physics		General Physics	_
	17		19
J	UNIOR Y	YEAR	
Agronomy 301(3-2) Soils	4	Agricultural Engineering 201(2-2) Farm Machinery	3
Civil Engineering 201(3-3)	4	Agronomy 314(3-2)	4
Plane Surveying Electrical Engineering 305(3-3)	4	Field Crops Civil Engineering 305(3-0) Mechanics of Materials	3
Electrical Machinery Geology 201(3-2)	4	Mechanics of Materials Civil Engineering 315(0-2)	i
General Geology Elective	3	Materials Laboratory Dairy Husbandry 202(2-2)	3
Liective	_	Dairying	-
	19	*English 307(2-0) Technical Writing	2
		Elective	3
			19
	ENIOR Y		
Agricultural Engineering 413(2-3) Farm Buildings	3	Agricultural Engineering 426(1-0) Seminar	1
Agricultural Engineering 425(1-0) Seminar	1	Agricultural Engineering 428(2-3)	3
Civil Engineering 311(3-0)	3	Irrigation and Drainage Agricultural Engineering 418(2-3)	3
Hydraulics Civil Engineering 336(0-2)	1	Designing of Farm Structures Electrical Engineering 431(2-0)	2
Hydraulics Laboratory Economics 403(3-0)	3	Engineering Administration History 305(3-0)	3
Principles of Economics English 401 (2-0)	-	Citizenship	-
Public Speaking	2	Elective	6
Elective	<u>6</u>	•	18
•	19		

^{*} For possible substitutions see description of English 210. page 158. † Or English 317. For possible substitutions see description of English 307, page 158.

COURSE IN LANDSCAPE ART

FRESHMAN YEAR

First Semester Cre	edit	Second Semester Cre	dit
Architecture 101(0-4)	1	Architecture 102(0-6)	2
Architectural Drawing Architecture 109(0-4)	1	Architectural Drawing Architecture 110(0-4)	1
Freehand Drawing Biology 191(2-4)	3	Freehand Drawing Biology 102(2-4)	3
General Botany		General Botany	-
Chemistry 101 (3-3) Inorganic Chemistry		Chemistry 102(3-3) Inorganic Chemistry	4
English 103 (3-0) Rhetoric and Composition	3	English 104(3-0) Rhetoric and Composition	3
History 103(3-0) Modern Europe	3	History 104(3-0) Modern Europe	3
Military Science(1-2)	1	Military Science(1-2)	1
	16	-	17
SOP	HOMORE	E YEAR	
English 203(2-0)	2	Agricultural Education 207(3-0)	3
Composition and Literature Entomology 201(2-2)	3	Psychology *English 210 (2-0)	2
General Entomology History 305 (3-0)		Argumentation Land cape Art 202(2-2)	3
Citizenship Horticulture 201(2-2)		Ornamentals Landscape Art 302(2-0)	
Plant Propagation (2-2)	3	History of Landscape Art (2-0)	2
Military Science(1-2)	6	Military Science(1-2)	1 6
	18		17
	10		11
J	UNIOR Y	YEAR	
		A1.14	1
Agricultural Engineering 305(2-4)	3	Architecture 206(0-4)	_
Terracing and Drainage Agronomy 301(3-2)		Freehand Drawing Economics 403(3-0)	3
Terracing and Drainage Agronomy 301(3-2) Soils	4	Freehand Drawing Economics 403(3-0) Principles of Economics	_
Terracing and Drainage Agronomy 301	4 1	Freehand Drawing Economics 403	3
Terracing and Drainage Agronomy 301	4 1 3	Freehand Drawing Economics 403	3 2 3
Terracing and Drainage Agronomy 301 (3-2) Soils Architecture 205 (0-4) Freehand Drawing Landscape Art 301 (2-4)	4 1 3 6	Freehand Drawing	3 2 3 3
Terracing and Drainage Agronomy 301	4 1 3	Freehand Drawing Economics 403	3 2 3
Terracing and Drainage Agronomy 301	4 1 3 6	Freehand Drawing	3 2 3 3
Terracing and Drainage Agronomy 301 (3-2) Soils Architecture 205 (0-4) Freehand Drawing Landscape Art 301 (2-4) Introduction to Landscape Art Elective	4 1 3 6	Freehand Drawing Economics 403 (3-0) Principles of Economics †English 307 (2-0) Technical Writing Landscape Art 314 (2-2) Floriculture Landscape Art 304 (0-8) Landscape Design Elective	3 2 3 3 6
Terracing and Drainage Agronomy 301 (3-2) Soils Architecture 205 (0-4) Freehand Drawing Landscape Art 301 (2-4) Introduction to Landscape Art Elective S English 401 (2-0)	4 1 3 6 17	Freehand Drawing Economics 403 (3-0) Principles of Economics †English 307 (2-0) Technical Writing Landscape Art 314 (2-2) Floriculture Landscape Art 304 (0-8) Landscape Design Elective (EAR Economics 316 (3-0)	3 2 3 3 6
Terracing and Drainage Agronomy 301 (3-2) Soils Architecture 205 (0-4) Freehand Drawing Landscape Art 301 (2-4) Introduction to Landscape Art Elective S English 401 (2-0) Public Speaking Horiculture 317 (2-3)	4 1 3 6 17 ENIOR Y	Freehand Drawing Economics 403 (3-0) Principles of Economics †English 307 (2-0) Technical Writing Landscape Art 314 (2-2) Floriculture Landscape Art 304 (0-8) Landscape Design Elective (EAR Economics 316 (3-0) Business Law Horticulture 420 (1-3)	3 2 3 3 6 18
Terracing and Drainage Agronomy 301 (3-2) Soils Architecture 205 (0-4) Freehand Drawing Landscape Art 301 (2-4) Introduction to Landscape Art Elective S English 401 (2-0) Public Speaking Horticulture 317 (2-3) Fruit Growing	4 1 3 6 17 ENIOR Y	Freehand Drawing Economics 403	3 2 3 3 6 18
Terracing and Drainage Agronomy 301 (3-2) Soils Architecture 205 (0-4) Freehand Drawing Landscape Art 301 (2-4) Introduction to Landscape Art Elective S English 401 (2-0) Public Speaking Horticulture 317 (2-3) Fruit Growing Landscape Art 401 (3-8) Advanced Landscape Art	4 1 3 6 17 ENIOR Y 2 3 6	Freehand Drawing Economics 403	3 2 3 3 6 18
Terracing and Drainage Agronomy 301 (3-2) Soils Architecture 205 (0-4) Freehand Drawing Landscape Art 301 (2-4) Introduction to Landscape Art Elective SS English 401 (2-0) Public Speaking Horticulture 317 (2-3) Fruit Growing Landscape Art 401 (3-8)	4 1 3 6 17 ENIOR Y	Freehand Drawing Economics 403	3 2 3 3 6 18

^{*} For possible substitutions see description of English 210, page 158. † Or English 317. For possible substitutions see description of English 307, page 158.

THE SCHOOL OF ARTS AND SCIENCES

COURSE IN LIBERAL ARTS

(Leading to the Degree of Bachelor of Arts)

The Course in Liberal Arts is planned to meet the needs of students who are interested in other than technical studies, and who desire a broad, general education as a preparation for intelligent citizenship. The first two years are spent in introductory work in essential fundamental subjects. The purpose of this plan is to give to the student breadth of view, and to enable him to take a more intelligent part in his own education. During the two upper years the student selects a major and a minor field of study, and appropriate electives, under the advice and direction of the Dean of the School of Arts and Sciences.

FRE	SHMA	N	YEAR	
(See	note	1,	below)	
First Semester Cree	dit	٠	Second Semester Cre	dit
Chemistry 101(3-3)	4		Chemistry 102(3-3)	4
Inorganic Chemistry English 103(3-0)	3		Inorganic Chemistry English 104(3-0)	3
Rhetoric and Composition History 103(3-0)	3	•	Rhetoric and Composition History 104(3-0)	3
Modern Europe	_		Modern Europe	•
Mathematics 101(3-0)	3		Mathematics 103(3-0) Trigonometry	3
Military Science(1-2) Modern Language(3-0)	1		Military Science (1-2) Modern Language (3-0)	1
French, German or Spanish	ъ		French, German or Spanish	J
	17		*	17
				-
SOPE	юмо	RE	YEAR	
(See	note	2,	below)	
Biology 211(2-4) General Biology	3		General Biology (2-4)	3
Economics 203(3-0)	3		Economics 204(3-0)	3
Principles of Economics English 231(3-0)	3		Principles of Economics English 232(3-0)	3
English Literature Military Science(1-2)	1		English Literature Military Science(1-2)	1
Modern Language(3-0)	3		Modern Language(3-0)	3
French, German or Spanish Elective	3		French, German or Spanish Elective	3
	 16			16
	10			
Jī	UNIO	R :	YEAR	
(Sec	note	3,	below)	
Elective	17		History 305(3-0)	3
			Citizenship Elective	14
				17
				••
, · SI	ENIOI	3	YEAR	
(See	note	3,	below)	
English 401(2-0)	2		Elective	18
Public Speaking Elective	16			
	18			

NOTES

1. In the Freshman year Physics 201-202 (Principles of Physics) may, for sufficient

reason, be taken in place of Chemistry 101-102.

Mathematics 102 (Advanced College Algebra), or Mathematics 104 (Analytic Geometry), must be taken in the second semester of the Freshman year in place of Mathematics 103 (Trigonometry), if the latter subject was completed in preparatory school.

2. In the Sophomore year one of the following may be taken in place of Biology 211-212: Biology 101-102 (General Botany), Biology 203-204 (Zoology), or Geology 201-202 (General and Historical Geology).3. A minimum of eight semester hours of advanced work in English must be taken

as a part of the elective work in the junior and senior years.

MAJOR AND MINOR STUDIES

By April 15 of his sophomore year the student selects a major and a minor field of study, according to the following directions:

1. One of the following departments must be chosen as the field of major study: Economics (including Accounting and Statistics, Agricultural Economics, Marketing and Finance), English, History, Mathematics, Modern Languages, Physical Education. Suggested programs for students majoring in Economics or in Physical Education are

outlined on page 98.

2. For his minor study the student may select one of the above departments other than that of his major study, or one of the following: Biology, Chemistry, Entomology,

Geology, Physics.

3. The remainder of the elective work may be taken in any of the departments indicated above, or from other departments of the College, subject to the approval of the Dean of the School of Arts and Sciences.

Before graduation the student must complete in his major study a minimum of from 18 to 24 semester hours, and in his minor study at least 12 semester hours, not including the prescribed subjects of the Freshman and Sophomore years.

5. For more detailed information regarding major studies, minor studies, and electives, see the "Handbook of the School of Arts and Sciences," a copy of which may be secured by writing to the Registrar of the College.

THE FOREIGN LANGUAGE REQUIREMENT

Students who do not present a foreign language for admission must complete a minimum of 18 semester hours in one foreign language; others will complete a minimum of 12 semester hours, except where three units in one language, or two units in each of two languages, are presented for admission, in which case 6 semester hours of advanced work in one of the languages presented will cover the requirement; provided, that the satisfactory completion of four years of a modern foreign language in preparatory school will exempt the student from the language requirement if he can give evidence of an adequate reading knowledge of that language.

STUDIES PREPARATORY TO LAW

Students planning to enter Law School should matriculate in the Course in Liberal Arts, and take the following program in the Freshman and Sophomore years:

Freshman Year

English 103-104 Rhetoric and Composition Mathematics 101-103 Algebra; Trigonometry . History 213-214 History of England Chemistry 101-102 or Biology 211-212 An Approved Elective Military Science Physical Training

Sophomore Year

English 231-232 English Literature Economics 203-204 Principles of Economics History 211-212 Comparative Government History 215-216 United States History Accounting and Statistics 201-202 Principles of Accounting Military Science

The above program covers the minimum requirement for admission to Law School. Where possible, the student should complete the course in Liberal Arts, with History and Economics as the principal studies, and obtain the degree of Bachelor of Arts before beginning the study of law.

PROGRAM FOR STUDENTS MAJORING IN ECONOMICS

FRESHMAN YEAR

As outlined for the Course in Liberal Arts.

SOPHOMORE YEAR

As outlined for the Course in Liberal Arts, with Accounting and Statistics 201-202 (Principles of Accounting) as the elective study.

JUNIOR YEAR

v ·	OTATOTE	IDAIC	
First Semester Cre	edit	Second Semester Cred	lit
Accounting and Statistics 303(3-3) Statistical Method Economics 311	3	Agricultural Education 207	3
S	ENIOR '	YEAR	
Economics 315	2	Citizenship Elective	3 12 18

Suggested electives in the Junior and Senior years: A. and S. 301-302 (Advanced Accounting), A. and S. 401 (Cost Accounting), A. and S. 403 (Income Tax), A. and S. 404 (Advanced Statistics), A. and S. 405 (Pricq Analysis), A. and S. 406 (Agricultural and Business Cycles), A. and S. 407 (Auditing); Agr. Economics 318 (Property and Contract), Agr. Economics 423 (Land Economics); Economics 318 (Labor Problems), Economics 408 (Corporation Finance), Economics 409 (Foreign Trade and Exchange), Economics 413-414 (Advanced Economic Theory); English 317 (Commercial Correspondence); History 211-212 (Comparative Government), History 423-424 (American Foreign Relations); M. and F. 404 (Transportation); Mathematics 207-208 (Investments); Military Science.

PROGRAM FOR STUDENTS MAJORING IN PHYSICAL

EDUCATION

FRESHMAN YEAR

, As outlined for the course in Liberal Arts, except that Biology 203-204, (Zoology) takes the place of Math. 101-103.

SOPHOMORE YEAR

As outlined for the course in Liberal Arts, except that Biology 341 (Anatomy and Physiology), and Phys. Ed. 206 (Personal and Community Hygiene) take the place of Biol. 211-212; and Phys. Ed. 203-204 (Methods in Physical Education) is taken as the elective study.

17

JUNIOR YEAR

First Semester Cree	dit	Second Semester Cred	it
Agricultural Education 207(3-0) Psychology	3	Physical Education 306(3-0) Public School Phys. Ed.	3
Physical Education 305(3-0) Public School Phys. Ed.	3	Physical Education 308(3-0) Athletic Training	3
Physical Education 311(3-2) Fundamentals of Ath. Coaching	4		4
Rural Education 321(3-0) Secondary School Methods	3		3
Elective	4	Elective	4
	17	Ī	7
English 401(2-0)	ENIOR Y	History 305(3-0)	3
English 401(2-0) Public Speaking Physical Education 401(3-2)		History 305	3
Th. and Pr. of Ath. Coaching		Th. and Pr. of Ath. Coaching	
Org. and Adm. of Phys. Ed.	4	Org. and Adm. of Phys. Ed.	4
Elective	8	Elective	7
	18	i	18
		A.B.	

COURSE IN SCIENCE

The work of the Course in Science is planned with the following purposes in view:

- 1. To prepare students for research in pure science and for practical work in the fields of Biology (Botany, Zoology, Bacteriology), Chemistry, Entomology, Geology and Physics, especially as they relate to Agriculture, Engineering, and the allied industries.
- 2. To train teachers of Science in secondary schools and other institutions of learning.
- 3. To provide the necessary fundamental preparation for students planning to enter upon the study of medicine. (See page 101.)

FRESHMAN YEAR

				1
Biology 203(2-4)	3	I	Biology 204(2-4)	3
Chemistry 103(3-4) Inorganic Chemistry	4	. (Chemistry 104(3-4) Inorganic Chemistry	4
English 103(3-0) Rhetoric and Composition	3	I	English 104 (3-0) Rhetoric and Composition	3
Mathematics 101(3-0) Algebra	3	I	Mathematics 103(3-0) Trigonometry	3
Military Science(1-2)	1	I	Military Science(1-2)	1
Modern Language(3-0) French or German			Modern Language(3-0) Frenca or German	
				_

17

SOPHOMORE YEAR

	First Semester C	redit		Second Semester	Cre	dit
	(3-0	3		32sh Literature	(3-0)	3
Wilitary Sai	ience(1-2	1	Military S	cience	(1-2)	1
Madann Tan	iguage(3-0	1 3	Modern I	anguage	(3-0)	3
	or German	,, 0	Frenc	h or German		~
	1(3-2) A		202	(3-2)	4
College		., •	Colleg	e Physics		•
	1 Hysics	7	Flactive	C I HJ SICS		7
Elective	•••••••••••		Miccelve			7
		18				18
Princip	403(3-0	JUNIOR 0)* 3 15 18	History 30 Citize	05nship		15 18
		SENIOR	YEAR		:	
	(2-0)) 2	Elective			18
		16				
		18				

NOTES

- 1. By April 15 of his sophomore year, the student must designate as his major department one of the following: Biology (botany, zoology, bacteriology), Chemistry, Entomology, Geology, Physics.
- A suggested program of studies for students majoring in Geology is given on page 101.
- 2. Before graduation he must complete in his major department a minimum of from 24 to 30 semester hours, not including prescribed subjects. Certain studies from other departments, closely allied to his major subject, are to be included in the electives.
- 3. A minimum of eight semester hours of advanced work in English must be taken as a part of the elective work in the Junior and Senior years.
- 4. For more detailed information regarding major studies, allied subjects, and electives, see the "Handbook of the School of Arts and Sciences," a copy of which may be secured by writing to the Registrar of the College.

THE FOREIGN LANGUAGE REQUIREMENT

French or Germar is to be taken in satisfaction of the Foreign Language requirement. Students who do not present a foreign language for admission must complete a minimum of 18 semester hours in one of these languages; others will complete a minimum of 12 semester hours, except where at least three units in German of French are presented, in which case 6 semester hours of advanced work in the same language will satisfy the requirement; provided, that the completion of four years of either French or German in preparatory school will exempt the student from the language requirement in the Course in Science, if he can give evidence of an adequate reading knowledge of the language.

STUDIES PREPARATORY TO MEDICINE

Students planning to enter upon the study of medicine should enroll in the Course in Science and take the following program of studies in the Freshman and Sophomore years:

Freshman Year
As outlined for the Freshman year of the Course in Science, page 99.

Sophomore Year

As outlined for the Sophomore year of the Course in Science, with the following as electives: Biology 317-318 (Comparative Vertebrate Zoology), Chemistry 301-302 (Organic Chemistry), and Engineering Drawing 213-214 (Mechanical Drawing).

The above program covers the *minimum* requirements for admission to Medical School. Where possible, the student should complete the course in Science, with Biology and Chemistry as the principal studies, and obtain the degree of Bachelor of Science before beginning the study of medicine.

If the student is unable to spend more than two years in preparation for the study of medicine he should substitute Agr. Education 207 (Psychology) and History 305 (Citizenship) for English 231-232 in the Sophomore year.

Students in the course in Science who complete at least the minimum program outlined above and who subsequently complete the first two years in medicine at a Class A medical school, will be awarded the degree of Bachelor of Science upon transferring their medical credits back to the A. and M. College of Texas, provided the grade point requirement has been met.

PROGRAM FOR STUDENTS MAJORING IN GEOLOGY

FRESHMAN YEAR

As outlined for the course in Science, page 99, except that Physics 201, 202 (Principles of Physics) is taken in place of Biology 203-204 (Zoology); and Language 103-104 (German) is taken in satisfaction of the language requirement.

SOPHOMORE YEAR

As outlined for the course in Science, except that Biology 203-204 is taken in place of Physics 201-202. German is continued, and Geology 201-202 (General and Historical Geology), Geology 205-206 (Crystallography and Mineralogy) and Engineering Drawing 213-214 (Mechanical Drawing), are taken as electives.

JUNIOR YEAR

	5-1-0-4		
First Semester Cre	dit	Second Semester Cre	edit
Economics 403(3-0) Principles of Economics	3	Civil Engineering 206(1-3) Plane Surveying	2
Geology 303(2-4)	3	Geology 304(2-4) Petrology	3
Geology 305(3-3) Paleontology	4	Geology 306(3-3) Paleontology	4
History 305(3-0)	3	Geology 312(3-2) Structural Geology	4
Elective	6	Elective	6
	19		19
sı	ENIOR	YEAR	
English 401(2-0) Public Speaking		Geology 404(3-3) Geology of Petroleum	
Geology 405(3-2)		Geology 416(1-4)	2
Geology 415(1-4) Field Methods		Field Methods Geology 418(3-2) Advanced General Geology	4
Geology 417(3-2) Advanced General Geology	4	Elective	8
Elective	6		18
	18		

Suggested electives in the Junior and Senior Years: Biology 101, 102 (Botany); Biology 317, 318 (Vertebrate Zoology); Chem. Engineering 407 (Industrial Chemistry); Chem. Engineering 408 (Metallurgy); Chemistry 206 (Organic); Chemistry 207 (Quantitative analysis); Mathematics 102 (Advanced Algebra); Mathematics 104 (Analytic Geometry); Mathematics 203 (Calculus); Military Science; Petroleum Engineering 201, 202 (Drilling and Development); Physics 407 (Geophysics); advanced courses in English.

THE SCHOOL OF ENGINEERING

COURSES IN ARCHITECTURE

(For the Class of 1935, and thereafter.)

GROUP I. ARCHITECTURAL DESIGN

FRESHMAN YEAR

1101	DILBIZER	1 Entit	
First Semester Cre	dit	Second Semester Cre	dit
Architecture 101(0-4)	1	Architecture 102(0-6)	2
Architectural Drawing		Architectural Drawing	_
Architecture 107(2-0) History of Architecture	2	Architecture 108(2-0) History of Architecture	2
Architecture 109(0-4)	1	Architecture 110(0-4)	1
Freehand Drawing	_	Freehand Drawing	-
Engineering Drawing 124(2-4) Descriptive Geometry	3	Chemistry 101(3-3)	4
English 103(3-0)	3	Inorganic Chemistry English 104(3-0)	3
Rhetoric and Composition	_	Rhetoric and Composition	•
Mathematical Analysis (6-0)	6	Mathematical Analysis (6-0)	6
Mechanical Engineering 101(1-2)	1	Mathematical Analysis Mechanical Engineering 102(1-2)	1
Engineering Problems	_	Engineering Problems	-
Military Science(1-2)	1	Military Science(1-2)	1
	18		20
	-0		
SOPI	HOMORE	YEAR	
Architecture 201(0-10)	3	Architecture 202(0-10)	3
Architectural Design	_	Architectural Design	
Architecture 203(0-6) Shades, Shadows, Perspective	2	Architecture 206(0-4) Freehand Drawing	1
Architecture 205(0-4)	. 1	Architecture 216(2-0)	2
Freehand Drawing		History of Architecture	-
Architecture 215(2-0)	2	Civil Engineering 206(1-3)	2
History of Architecture English 203(2-0)	2	Plane Surveying English 210(2-0)	2
Composition and Literature	_	Argumentation	-
Military Science(1-2)	1	Military Science(1-2)	1
Modern Language(3-0) French or German	3	Modern Language(3-0) French or German	3
Physics 201(3-2)	4	Physics 202(3-2)	4
College Physics		College Physics	
	18		18
	10		10
·			
J	JNIOR Y	EAR	
(Not offered until 1933-34; fo	or presen	t Junior program see page 105)	
Architecture 301(0-16)	5	Architecture 302(0-16)	5
Architectural Design		Architectural Design	1
Architecture 305(0-4) Freehand Drawing	1	Architecture 306(0-4)	1
Architecture 313(4-0)	4	Architecture 314(3-3)	4
Mechanics of Materials		Stress Analysis	2
Architecture 315(2-0) Modern Architecture	2	Architecture 320(0-6) Building Construction	Z
Modern Language(3-0)	3	Modern Language(3-0)	3
French or German		French or German	-
Elective	3	Elective	_3
	18	•	18

	ENIOR Y	TEAR nt Senior program see page 105)	
First Semester Cre		Second Semester Cre	dit
Architecture 401(0-21)	7	Architecture 402(0-21)	
Architectural Design Architecture 417(3-0)	3	Architectural Design Architecture 412(2-3)	3
Concrete Structures Architecture 423	2	Building Construction Electrical Engineering 436(2-0)	2
History 305(3-0)	3	Wiring and Lighting Mechanical Engineering 335(3-0)	3
Citizenship Elective	3	Heating and Ventilation Elective	3
	18		18
	IFTH Y	EAR.	
		il 1935-36)	
Architecture 415(2-0) The Fine Arts	2	Architecture 416(2-0) The Fine Arts	2
Architecture 425(2-0)	2	Architecture 452(0-27) Architectural Design	9
Professional Practice Architecture 451(0-27)	9	Architectural Design English 401(2-0)	2
Architectural Design		Public Speaking	_
Principles of Economics (3-0)	3	History of Landscape Art (2-0)	2
Elective	2	Elective	3
·	18		18
		RAL ENGINEERING	
	SHMAN as in G		
	HOMORE	- /	
Architecture 201 (0-10)	3	Architecture 202 (0-10)	3
Architectural Design		Architectural Design Architecture 206	٠
Architecture 203(0-6) Shades, Shadows, Perspective	2	Architecture 206(0-4)	1
Architecture 205(0-4) Freehand Drawing	1	Architecture 216(2-0)	2
Freehand Drawing	_	History of Architecture	
Architecture 215(2-0) History of Architecture	2	Civil Engineering 204(3-0) Analytic Mechanics	
Mathematics 203 (5-0)	5	Mathematics 204(5-0)	5
Calculus Physics 203 (3-3)	4	Calculus Physics 204(3-3)	4
Calculus Physics 203		General Physics	
Military Science(1-2)	1	Military Science(1-2)	
	18		19
Jī	UNIOR Y	YEAR	
(Not offered until 1933-34; for	or presen	t Junior program see page 106)	
Architecture 315(2-0) Modern Architecture	2	Architecture 314(3-3) Stress Analysis	4
Architecture 423(2-0)	2	Architecture 320(0-6)	2
Materials of Construction Civil Engineering 305(3-0)	3	Building Construction Civ'l Engineering 206(1-3)	2
Mechanics of Materials Civil Engineering 311(3-0)	3	Plane Surveying English 210(2-0)	2
Hydraulics Civil Engineering 315(0-2)	1	Argumentation History 305(3-0)	
Materials Laboratory	_	Citizenship	
Principles of Economics (3-0)	3	Mechanical Engineering 335(3-0) Heating and Ventilation	3
English 203(2-0) Composition and Literature	2	Elective	3
Flactive	2		19

· SENIOR YEAR

(Not offered until 1934-35; for present Senior program see page 106)

First Sem	nester Cre	dit	Second Semester Cred	lit
Architecture 415 The Fine Arts	(2-0)	2	Architecture 416(2-0) The Fine Arts	2
Architecture 417 Concrete Structur		3	Architecture 418(2-3) Concrete Structures	3
Architecture 421 Structural Design		4	Architecture 422(2-6) Structural Design	4
Architecture 425 Professional Prac	(2-0)	2	Electrical Engineering 436(2-0) Wiring and Lighting	2
English 401 Public Speaking	(2-0)	2	Elective	8
Elective	***************************************	6		19
		19		-

COURSES IN ARCHITECTURE

(For the Classes of 1933 and 1934)

GROUP 1. ARCHITECTURAL DESIGN

JUNIOR YEAR

(For the Class of 1934)

Architecture 301(0-15) Design	5	Architecture 302(0-15) Design	5
Architecture 305(0-4)	1	Architecture 306(0-4)	1
Freehand Drawing		Freehand Drawing	
Architecture 309(2-0)	2	Architecture 318(3-3)	4
History of Architecture		Reinforced Concrete	_
Architecture 317(2-3)	3	History 305(3-0)	8
Framed Construction		Citizenship	
Economics 403(3-0)	3	Modern Language 102(3-0)	3
Principles		French	
Modern Language 101(3-0)	3	Elective (See page 114)	3
French		(_
Elective (See page 114)	3		19
	_		-
	20		

SUMMER WORK

Architecture 400, Working Drawings, three weeks

SENIOR YEAR

(For the Classes of 1933 and 1934)

(and -	
Architecture 401(0-18) Design	6	Architecture 402(0-20) Design	
Architecture 407(2-0) History of Art	2	Architecture 406(2-0) Professional Practice	
Architecture 409(0-4) Freehand Drawing		Architecture 410(0-4) Freehand Drawing	
Mechanical Engineering 335(3-0) Heating and Ventilation	3	Architecture 414(1-0) Modern Architecture	_
Modern Language 201(3-0) French	3	English 401(2-0) Public Speaking	2
Elective (See page 114)	3	Modern Language 202(3-0) French	3
	18	Elective (See page 114)	3

GROUP 2. ARCHITECTURAL ENGINEERING

JUNIOR YEAR

(For the Class of 1934)

	First Semester	Cree	lit	Second Semester Cre	dit
	ture 305hand Drawing	(0-4)	1	Architecture 306(0-4) Freehand Drawing	1
Architect	ory of Architecture	(2-0)	2	Architecture 312(0-12)	4
	ture 311	(0-12)	4	Civil Engineering 340(3-0) Structural Analysis	3
Civil En	gineering 206eving	(1-3)	2	Civil Engineering 342(0-4) Structural Drafting	
	gineering 305 nanics of Materials	(3-0)	3	Civil Engineering 344(2-0) Elem. Reinforced Concrete	2
Mate	gineering 315 rials Laboratory			History 305(3-0) Citizenship	3
Economic Prin	ciples of Economics	(3-0)	3	Elective (See page 114)	3
Elective	(See page 114)		3		17

SUMMER WORK

Architecture 400, Working Drawings, three weeks

SENIOR YEAR

(For the Classes of 1933 and 1934)

Architecture 407(2-0)	2		
History of Art		Architecture 406(2-0)	2
Architecture 411(0-14)	5	Professional Practice	
Structural Design		Architecture 412(2-12)	6
Geology 201(3-2)	4	Structural Design	
General Geology		Architecture 414(1-0)	1
Mechanical Engineering 335(3-0)	3	Modern Architecture	_
Heating and Ventilation		Electrical Engineering 436(2-0)	3
Elective (See page 114)	6	Wiring and Lighting	_
1			2
	20		
		Elective (See page 114)	6
			20
,	20	English 401(2-0) Public Speaking Elective (See page 114)	$\frac{2}{6}$

COURSES IN ENGINEERING

(The curricula for all engineering courses are identical in the freshman year.)

FRESHMAN YEAR

Chemistry 101(3-3) Inorganic Chemistry	4	Chemistry 102(3-3) Inorganic Chemistry	4
Engineering Drawing 111(0-6) Mechanical Drawing	2	Engineering Drawing 124(2-4) Descriptive Geometry	3
English 103(3-0) Rhetoric and Composition	3	English 104(3-0) Rhetoric and Composition	3
Mathematics 111(6-0) Mathematical Analysis	6	Mathematics 112(6-0) Mathematical Analysis	6
Mechanical Engineering 101(1-2) Engineering Problems	1	Mechanical Engineering 102(1-2) Engineering Problems	1
Military Science(1-2)	1	Military Science(1-2)	1
	_		_
	17		18

COURSE IN CHEMICAL ENGINEERING

(Gas, Petroleum Refining and Cotton Seed Oil)

FRESHMAN YEAR

(See page 106)

SOPHOMORE YEAR

First Semester Cre	edit.	Second Semester Cre	dit
Chemistry 205(2-8)	5	Chemical Engineering 202(2-8)	5
Qualitative Analysis Engineering Drawing 201(0-2)	1	Quantitative Analysis Engineering Drawing 202(0-2)	1
Mechanical Drawing English 203(2-0)	2	Mechanical Drawing English 210(2-0)	2
Composition and Literature Mathematics 203(5-0)	5	Argumentation Mathematics 204(5-0)	5
Calculus Military Science(1-2)	-	Calculus	-
Physics 203 (3-3) General Physics	1 4	Military Science	4
	18		18
, J	UNIOR :	YEAR	
Chemical Engineering 301(2-8) Quantitative Analysis	5	Chemistry 302(3-4) Organic Chemistry	4
Chemistry 301 (3-4) Organic Chemistry	4	Civil Engineering 206(1-3) Surveying	2
Economics 403(3-0) Principles of Economics	3	Electrical Engineering 305(3-3) Electrical Machinery	4
History 305(3-0)	3	Electrical Engineering 431(2-0)	2
Citizenship Elective (See page 114)	3	Engineering Administration Mechanical Engineering 320(5-0)	5
	18	Thermodynamics Elective (See page 114)	3
			20
¥			
s	ENIOR Y	YEAR	
Chemical Engineering 409(3-6)	5	Chemical Engineering 416(3-4)	4
Gas and Oil Technology Chemical Engineering 411(3-4)	4	Chemical Technology Chemical Engineering 418(3-4)	4
Physical Chemistry English 401(2-0)	2	Physical Chemistry Chemistry 438(1-0)	1
Public Speaking Geology 401(2-3)	3	Seminar *Geology 408(3-3)	4
Geology for Engineers Mechanical Engineering 403(1-3)	2	Geology for Engineers Mechanical Engineering 404(1-3)	2
Engineering Laboratory Elective (See page 114)	3	Engineering Laboratory Elective (See page 114)	3
(2	19	(222 \$232 223)	18
	13		10

^{*} Students specializing in Cotton Seed Oil Engineering will substitute Chemical Engineering 422 (3-4) for Geology 408.

COURSE IN CIVIL ENGINEERING

FRESHMAN YEAR

(See page 106)

SOPHOMORE YEAR

SOPI	HOMOR	E YEAR	
. First Semester Cre	dit	Second Semester Cre	edit
Civil Engineering 201(3-3)	4	Civil Engineering 202(3-3)	4
Surveying Engineering Drawing 201(0-2)	1	Railroad Engineering Civil Engineering 204(3-0)	3
Mechanical Drawing English 203(2-0)	2	Analytic Mechanics Engineering Drawing 202(0-2)	1
Composition and Literature	3	Mechanical Drawing English 210(2-0)	2
History 305(3-0) Citizenship	_	Argumentation	
Mathematics 203(5-0) Calculus	5	Mathematics 204(5-0) Calculus	
Military Science(1-2) Physics 203(3-3)	1	Military Science(1-2) Physics 204(3-3)	1,
General Physics	-	General Physics	_
	20		20
SU	MMER	WORK	
Civil Engineering	300s, Fie	eld Practice, six weeks.	
Jī	UNIOR	YEAR .	
Civil Engineering 305(3-0) Mechanics of Materials	3	Civil Engineering 311(3-0) Hydraulics	3
Civil Engineering 315(0-2)	1	Civil Engineering 336(0-2)	1
Materials Laboratory Civil Engineering 331(3-0)	3	Hydraulics Laboratory Civil Engineering 340(3-0)	3
Analytic Mechanics Civil Engineering 333(0-3)	1	Structural Analysis Civil Engineering 342(0-4)	1
Railroad Surveying	_	Structural Drafting	
Civil Engineering 335(0-4) Estimating and Drafting	1	Civil Engineering 344(2-0) Reinforced Concrete	2
Principles of Economics (3-0)	3	Geology 201(3-2) General Geology	4
Electrical Engineering 305(3-3) Electrical Machinery	4	Mechanical Engineering 324(3-0) Steam and Gas Power	3
Elective (See page 114)	3	Elective (See page 114)	3
	19		20
SE	ENIOR	YEAR	
		ectives from the list below students m	
specialize to some extent in Highway Engineering.	y, Hydr	aulic, Municipal, Sanitary, or Structu	ral
Civil Engineering 407(3-0) Roads and Pavements	3	Civil Engineering 414(2-3) Reinforced Concrete Design	3
Civil Engineering 423(2-4)	3	Civil Engineering 443(0-4)	1
Structures Civil Engineering 461(2-2)	3	Materials of Construction Electrical Engineering 431(2-0)	2
Masonry Municipal and Sanitary		Engineering Administration English 401(2-0)	2
Engineering 401(3-0) Sewerage and Sewage Disposal	3	Public Speaking	-
*Technical Electives	6	Municipal and Sanitary Engineering 402(3-0)	3
General Elective (See page 114)	3	Water Supply and Purification *Technical Electives	6
	21	General Elective (See page 114)	3
			20

^{*} See list of Technical Electives on next page.

*	Technical	Electives	to	be	chosen	from	the	following:
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First Semester Cr	edit	Second Semester Cree	dit
Chemistry 441(2-3) Analysis of Water and Sewage	3	Biology 418(1-4) Water Bacteriology	2
Civil Engineering 417(2-3) Bituminous Materials	3	Civil Engineering 434(3-0) Irrigation and Drainage	3
Civil Engineering 448(3-0) Engineering Economics	3	Civil Engineering 452(3-0) Structural Engineering	3
Civil Engineering 455(2-3) Steel Buildings		Civil Engineering 456(2-3) Highway Adm, and Design	3
Civil Engineering 463(3-0) Hydrology	3	Civil Engineering 458(2-3) Hydraulic Engineering	3
Municipal and Sanitary Engineering 403(1-5)	3	Municipal and Sanitary Engineering 406(3-0)	3
Sanitary Design		Sanitation and Public Health Municipal and Sanitary	
		Engineering 408(3-0) Municipal Administration	3

COURSE IN ELECTRICAL ENGINEERING

FRESHMAN YEAR

. (See page	2 106)	
SOP	HOMOR	E YEAR	
Electrical Engineering 201(3-6)	5	Electrical Engineering 202(2-4)	3
Electricity and Magnetism Engineering Drawing 201(0-2)	1	Elementary Electrical Engineering Civil Engineering 206(1-3)	2
Mechanical Drawing English 203(2-0)	2	Surveying Engineering Drawing 202(0-2)	1
Composition and Literature Mathematics 203(5-0)	5	Mechanical Drawing English 210(2-0)	2
Calculus	•	Argumentation	ú
Mechanical Engineering 201(0-3) Pattern Making and Foundry	1	Mathematics 204(5-0)	5
Military Science(1-2)	1	Mechanical Engineering 214(9-3)	1
Physics 207(3-2) General Physics	4	Machine Shop Military Science(1-2)	1
	19	Physics 208(3-2) General Physics	4
	10	delicital Thysics	_
			19
J.	UNIOR	YEAR	
Economics 403(3-0) Principles of Economics	3	Civil Engineering 305(3-0) Mechanics of Materials	3
Electrical Engineering 301(3-6)	5	Civil Engineering 315(0-2)	1
Direct Currents Mathematics 305(2-0)	2	Materials Laboratory Electrical Engineering 302(5-2)	6
Differential Equations	-	Alternating Currents	-
Mecbanical Engineering 317(3-0) Engineering Mechanics	3	Electrical Engineering 304(1-4) Alternating Current Laboratory	2
Mec inical Engineering 323(4-0)	4	History 305(3-0)	3:
hermodynamics Elective (See page 114)	3	Citizenship , Mechanical Engineering 318(2-0)	2
, ,	_	Engineering Mechanics	

20

20

SENIOR YEAR

First Semester Cred	lit	Second Semester Cre	dit
Electrical Engineering 401(4-0)	4	Electrical Engineering 402(4-0) Alternating Current Machinery	4
Alternating Current Machinery Electrical Engineering 403(1-6)	3	Electrical Engineering 404(1-6)	3
Alternating Current Laboratory Electrical Engineering 405(3-0)	3	Alternating Current Laboratory Electrical Engineering 432(3-0)	3
Electric Transmission Electrical Engineering 431(2-0)	2	Public Utility Problems Mechanical Engineering 404(1-3)	2
Engineering Administration English 401(2-0)	2	Engineering Laboratory General Elective (See page 114)	3
Public Speaking	2	*Technical Electives	6
Mechanical Engineering 403(1-3) Engineering Laboratory	_		21
Elective (See page 114)	3		
	19		
The technical electives of the Senic	or year a	are to be chosen from the following:	
Electrical Engineering 507(2-4) Adv. Alt. Current Machinery	3	Civil Engineering 311(3-0) Hydraulics	3
Mechanical Engineering 407(3-0)	3	Electrical Engineering 406(2-2)	
Mechanical Refrigeration		Electrical Engineering 414(3-0)	3
		Radio Communication Electrical Engineering 416(3-0)	3
		Motor Applications Electrical Engineering 426(2-2)	3
		Illumination Engineering Electrical Engineering 428(2-2)	3
T		Telephone Engineering Electrical Engineering 508(2-4) Adv. Alt. Current Machinery	3
(

COURSE IN MECHANICAL ENGINEERING

FRESHMAN YEAR

(See page 106)

SOPHOMORE YEAR

Chemistry 207(2-3)	3	Chemistry 208(1-3)	2
Quantitative Analysis		Technical Analysis	_
Civil Engineering 206(1-3)	2	Engineering Drawing 202(0-2)	1
Surveying	_	Mechanical Drawing	•
Engineering Drawing 201(0-2)	1	English 210(2-0)	9
Mechanical Drawing	-	Argumentation	4
English 203(2-0)	9	Mathematics 204(5-0)	
Composition and Literature	-	Calculus 204(3-0)	Ð
Mathematics 203(5-0)	5	Mechanical Engineering 202 (0-3)	
Calculus	J		7
Mechanical Engineering 201(0-3)	11-2	Pattern Making and Foundry	_
Pattern Making and Foundry	1	Mechanical Engineering 212 (3-0)	3
	4	Engineering Mechanics	
Military Science(1-2)		Military Science(1-2)	1
Physics 203(3-3)	4	Physics 204(3-3)	4
General Physics		General Physics	
•	-		_
	19		19

JUNIOR YEAR

30	NIOR	IEAR	
First Semester Cree	lit	Second Semester Cre	dit
Civil Engineering 305(3-0)	3	Civil Engineering 315(0-2)	1
Mechanics of Materials Civil Engineering 311(3-0)	3	Materials Laboratory Economics 403(3-0)	3
Hydraulics Electrical Engineering 307(3-3) Electrical Machinery	4	Principles of Economics Electrical Engineering 308(3-3) Electrical Machinery	4
Mechanical Engineering 307 (2-3)	3	Hi_tory 305(3-0)	3
Kinematics Mechanical Engineering 309(0-3) Machine Shop	1	Citizenship Mechanical Engineering 310(0-3) Machine Shop	1
Mechanical Engineering 313(3-0) Engineering Mechanics	3	Mechanical Engineering 320(5-0) Thermodynamics	5
Elective (See page 114)	3	Elective (See page 114)	3
•	20		20
SI	ENIOR	YEAR	
Electrical Engineering 431(2-0) Engineering Administration	2	English 401(2-0) Public Speaking	2
Mechanical Engineering 303(2-3) Machine Design	3	Mechanical Engineering 304(2-3) Machine Design	3
Mechanical Engineering 403(1-3) Engineering Laboratory	2	Mechanical Engineering 404(1-3)	2
Mechanical Engineering 417(3-0) Power Engineering	3	Engineering Laboratory Mechanical Engineering 418(3-0)	3
Mechanical Engineering 419(3-0)	3	Power Engineering Mechanical Engineering 420(3-0)	3
Industrial Engineering Mechanical Engineering 423(3-0) Industrial Administration	3	Industrial Engineering General Elective (See page 114) *Technical Elective	3
Elective (See page 114)	3		19
	19		19
* Technical Electives to be chose	n from	the following:	
Chemical Engineering 407(2-3) Industrial Chemistry Mechanical Engineering 407(3-0)		Motor Applications Motor Applications Motor Applications	7.5
Refrigeration	ð	Mechanical Engineering 428(3-0) Aerodynamics	
		Mechanical Engineering 430(2-2) Production Engineering	3
COURSE IN PETROLEI	M PR	ODUCTION ENGINEERING	

COURSE IN PETROLEUM PRODUCTION ENGINEFRING

FRESHMAN YEAR

(See page 106)

SOPHOMORE YEAR

Engineering Drawing 201(0-2) Mechanical Drawing	1	Civil Engineering 206(1-3) Surveying	2
English 203 (2-6) Composition and Literature	2	Engineering Drawing 202(0-2) Mechanical Drawing	1
Geology 201(3-2) General Geology	4	English 210(2-0) Argumentation	2
Mathematics 203(5-0) Calculus	5	Geology 307 (3-4) Mineralogy and Petrology	4
Military Science(1-2) Petroleum Engineering 201(2-0)		Mathematics 204(5-0)	5
Drilling and Development		Military Science(1-2)	
Physics 203(3-3) General Physics	4	Petroleum Engineering 292(2-0) Drilling and Development	
	19	Physics 204(3-3) General Physics	4

JUNIOR YEAR

,	OIVIOI	ILAK	
First Semester Cre	edit	Second Semester Cre	dit
Electrical Engineering 307(3-3) Electrical Machinery	4	Civil Engineering 305(3-0) Mechanics of Materials	3
Geology 202(3-3)	4	Electrical Engineering 308(3-3)	4
Historical Geology Mechanical Engineering 317(3-0)	3 ′	Geology 312(3-2)	4
Mechanics Mechanical Engineering 324(3-0)	3	Structural Geology Mechanical Engineering 320(5-0) Thermodynamics	5
Steam and Gas Power Petroleum Engineering 302(3-2)	4	Petroleum Engineering 301(2-0) Oil and Gas Transportation	2
Equipment and Applications Elective (See page 114)	<i>p</i> 3	Elective (See page 114)	3
	21 .		21
		-	
s	ENIOR	YEAR	
Chemical Engineering 419(3-0) Petroleum Refining	3	English 401 (2-0)	
Civil Engineering 311(3-0) Hydraulics	3	Public Speaking Geology 404(3-3) Geology of Petroleum	4
Civil Engineer'ng 336(0-2)		History 305(3-0)	3
Economics 403(3-0) Principles of Economics	3	Mechanical Engineering 404(1-3) Engineering Laboratory	2
Mechanical Engineering 403(1-3) Engineering Laboratory	2	Petroleum Engineering 402(3-2) Oil Field Management	4
Petroleum Engineering 401(3-2) Oil and Gas Measurements	4	Petroleum Engineering 404(0-4) Petroleum Problems	1
Petroleum Engineering 403(0-4)	1	Elective (See page 114)	3
Petroleum Problems Elective (See page 114)	3		19
•	20		

COURSE IN TEXTILE ENGINEERING

FRESHMAN YEAR

(See page 106)

SOPHOMORE YEAR

Accounting and Statistics 201(3-3)	4	Accounting and Statistics 202(3-3)	4
Principles of Accounting Chemistry 207(2-3) Quantitative Analysis	3	Principles of Accounting Chemistry 208(1-3) Technical Analysis	2
Engineering Drawing 201(9-2) Mechanical Drawing	1	Civil Engineering 206(1-3) Surveying	2
English 203(2-0) Composition and Literature	2	Engineering Drawing 202(0-2) Mechanical Drawing	1
Mechanical Engineering 307 (2-3) Kinematics	3	English 210(2-0) Argumentation	2
Military Science(1-2)	1	Military Science(1-2)	1
Physics 203(3-3) General Physics	4	Physics 204(3-3) General Physics	
Textile Engineering 207(0-3) Weaving	1	Textile Engineering 206(0-3) Yarn Manufacture	1
5	_		

19

JUNIOR YEAR

First Semester Cro	edit	Second Semester Cre	dit
Chemistry 206(3-2)	4	Chemistry 308(2-4)	3
Organic Chemistry History 305(3-0) Citizenship	3	Dyeing Electrical Engineering 305(3-3) Electrical Machinery	á
Mechanical Engineering 309(0-3) Machine Shop		Mechanical Engineering 324(3-0) Steam and Gas Power	3
Textile Engineering 301(2-3) Yarn Manufacture		Textile Engineering 302(0-2) Yarn Manufacture	1
Textile Engineering 303(0-3) Fabric Design		Textile Engineering 304(0-3) Fabric Design	1
Textile Engineering 307(3-3) Weaving	4	Textile Engineering 306(3-3) Weaving	4
Elective (See page 114)	3	Elective (See page 114)	3
	19		19
s	ENIOR	YEAR	
Economics 403(3-0) Principles of Economics	3	Electrical Engineering 431(2-0) Engineering Administration	2
Textile Engineering 401(3-2) Yarn Manufacture	4	English 401(2-0) Public Speaking	2
Textile Engineering 413(1-3) Cotton Classing		Textile Engineering 402(2-3) Yarn Manufacture	3
Textile Engineering 415(0-3) Fabric Design	1	Textile Engineering 414(0-3) Cotton Classing	1
Textile Engineering 419(1-2) Weaving	1	Textile Engineering 416(1-3) Fabric Design	2
Elective (See page 114)	<u>*</u> 9	Textile Engineering 420(0-3) Weaving	1
	20	Textile Engineering 422(3-0) History of Textile Industry	3
		Elective (See page 114)	26
			20

JUNIOR AND SENIOR ELECTIVES IN ENGINEERING

Engineering students selected for the advanced course, R. O. T. C., will elect the proper courses in Military Science. Electives for others are to be chosen with the approval of the Dean of the School of Engineering. The following courses are recommended as desirable for Juniors and Seniors not enrolled in the R. O. T. C.

First Semester Cree	lit
Accounting and Statistics 409(2-3)	3
Accounting for Engineers Agricultural Education 207(3-0)	3
Psychology Architecture 315(2.3)	2
Modern Architecture	2
Architecture 415 (2.6)	2
The Fine Arts Biology 309(2-4) General Bacteriology	3
General Bacteriology	3
Money and Banking (3-9)	3
English (See page 158)	3
Survey of Eugenics	3
Geology 201(3-2) General Geology	4
History 311	3
Modern and Contemporary Europe History 321(3-0)	3
Industrial History of U. S.	-
History 423 (3-0) American Foreign Relations	3
Mechanical Engineering 307(2-3)	3
Kinematics Modern Language(3-0)	3
French, German or Spanish	3
Rural Sociology 311(3-0) Social Psychology	3

Second Semester	Cred	lit
Architecture 416	(2-0)	2
The Fine Ar.;		
General B.c.eriology	.(2-4)	3
Economics 318	.(3-0)	3
Labor Problems	(0.0)	_
Econom.c: 435	(3-0)	3
Corporation Finance	(0.0)	
Public Finance and Taxatic	(3-0)	3
English (See page 158) Geology 202	(2.2)	4
Historical	. (3-3)	
History 312	(3-0)	3
Modern and Contemporary		•
History 322		3
Industrial History of U. S.	(0-0)	•
History 424	(3-0)	3
American Foreign Relations		•
Municipal and Sanitary Engi-	,	
neering 408	(3-0)	3
Municipal Administration	(0 0)	_
Modern Language	(3-0)	3
French, German or Spanish		_
Rural Sociology 312		3
General Sociology		

TWO-YEAR COURSE IN COTTON MARKETING AND CLASSING

FIRST YEAR

First Semester Cre	dit	S	econd Semester C	redit
Agricultural Economics 101(3-0) Agricultural Resources	3		Economics 102(3-0 ural Resources) 3
Chemistry 101(3-3) Inorganic Chemistry	4	Chemistry 1	102(3-3 ic Chemistry) 4
English 103(3-0) Rhetoric and Composition	3	English 104	and Composition (3-0) 3
Mathematics 101(3-0)		 Mathematics Algebra 	102(3-0	
Military Science (1-2) Textile Engineering 107 (2-5) Cotton Classing	1 4	Military Science Textile Engineers Cotton	ence) 1
	18			18
Accounting and Statistics 201(3-3)			and Statistics 202 (3-3) 4
Principles of Accounting Economics 293(3-0) Principles of Economics	3	Economics 2	es of Accounting 204(3-0 es of Economics) 3
History 305		Economics :	316(3-0 3 Law (2-0	
Composition and Literature		A 20011200 0	ntation	
Military Science (1-2)	1		ence(1-2	
Textile Engineering 205(3-0) Cotton Exchanges		Cotton	ineering 212(1-5 Classing	
Textile Engineering 211(1-5) Cotton Classing	3	Textile Eng Foreign	ineering 218(3-0 Cotton Markets) 3
	19			19

NOTE.—Completion of this Course will be accepted for full Junior standing in Group 4 of the Course in Agricultural Administration.

THE SCHOOL OF VETERINARY MEDICINE

COURSE IN VETERINARY MEDICINE

FRESHMAN YEAR

· · ·	EDIIII211	IBAR	
First Semester Cre	edit	Second Semester Cre	edit
Animal Husbandry 107(2-4)	3	Biology 102(2-4)	3
General Animal Husbandry Biology 101(2-4)	3	General Botany Chemistry 102(3-3)	4
General Botany Chemistry 101(3-3)	4	Inorganic Chemistry English 104(3-0)	3
Inorganic Chemistry	3	Rhetoric and Composition Military Science(1-2)	1
English 103(3-0) Rhetoric and Composition	_	Poultry Husbandry 201(2-2)	3
Military Science(1-2) Veterinary Anatomy 111(3-6)	1 5	Poultry Production Veterinary Anatomy 112(3-6)	5
Anatomy of Domestic Animals Vet. Phys. and Pharm. 121(2-0)	2	Anatomy of Domestic Animals Vet. Phys. and Pharm. 122(2-0)	2
Physiology of Domestic Animals	_	Physiology of Domestic Animals	-
	21		21
SOP	HOMORE	CYEAR	
Organic Chemistry (3-2)	4	Biology 206(1-4) Bacteriology	2
English 203(2-0)	2	Biology 207(2-4)	3
Composition and Literature Entomology 201(2-2)	3	Zoology *English 307(2-0)	2
General Entomology Military Science(1-2)	1	Technical Writing Entomology 208(2-2)	3
Veterinary Anatomy 211(3-6) Anatomy of Domestic Animals	5	Animal Parasites History 305(3-0)	3
Veterinary Anatomy 213(2-4)	3	Citizenship Military Science(1-2)	-
Histology and Embryology Vet. Phys. and Pharm. 221(2-0)	2	Veterinary Pathology 242(3-2)	1 4
Physiology of Domestic Animals	_	General Pathology Vet. Phys. and Pharm. 222(3-4)	4
	20	Physiology of Domestic Animals	_
			22
77	UNIOR Y	TEAD	
Dairy Husbandry 301(3-2) Market Milk	4	Genetics 301(3-2)	4
Veterinary Medicine 351(3-0) Non-infectious Diseases	3	Veterinary Medicine 352(3-0) Non-infectious Diseases	3
Veterinary Medicine 361(3-0) General Surgery	3	Veterinary Medicine 362(3-0) General Surgery	3
Veterinary Medicine 371(0-7)	2	Veterinary Medicine 372(0-12) Clinic	4
Veterinary Pathology 341(2-0)	2	Veterinary Pathology 342(2-4)	3
Special Pathology Veterinary Pathology 343(2-4)	3	Special Pathology Vet. Phys. and Pharm. 334(3-0)	3
Special Bacteriology Vet. Phys. and Pharm. 333(3-4)	4	Pharmacology Elective	3
Pharmacology Elective	3		23
	24		
	44		

^{*} Or English 317.

SENIOR YEAR

First Semester Cr	edit	Second Semester Cre	edit
Animal Husbandry 409(3-2) Animal Nutrition	4	English 401(2-0) Public Speaking	2
Veterinary Medicine 451(3-0) Diseases of Small Animals	3	Veterinary Medicine 452(3-0) Practice of Medicine	3
and Fowls		Veterinary Medicine 462(3-4)	4
Veterinary Medicine 453(3-0) Infectious Diseases	3	Operative Surgery Veterinary Medicine 472(0-7)	2
Veterinary Medicine 461(2-0) Obstetrics	2	Clinic Veterinary Pathology 442(2-2)	
Veterinary Medicine 471(0-7)	2	Meat Hygiene	
Clinic Veterinary Pathology 441(2-2)	3	Veterinary Pathology 444(2-2) Laboratory Diagnosis	
Immunology; Serum Therapy	_	Vet. Phys. and Pharm. 432(1-2)	1
Veterinary Pathology 443(2-2) Parasitology	3	Toxicology Elective	3
Elective	3	Elective	
	_		21
	99		

THE SCHOOL OF VOCATIONAL TEACHING

COURSE IN AGRICULTURAL EDUCATION

FRESHMAN YEAR

First Semester Cre Animal Husbandry 107	3 4 3 1 3 17	Agronomy 105 (3-2) Crop Production Biology 102 (2-4) General Botany Chemistry 102 (3-3) Inorganic Chemistry English 104 (3-0) Rhetoric and Composition Military Science (1-2) Elective	3 4 3 1 3 18
SOP	HUMURI	E YEAR	
Agricultural Engineering 321(1-3) Farm Shop Chemistry 212	2 3 2	Agricultural Engineering 322(1-3) Farm Shop Dairy Husbandry 202(2-2) Dairying English 232(3-0) English Literature	3 3
English 231 (3-0) English Literature Horticulture 201 (2-2) Plant Propagation	3	Entomology 204	3 1 6
Military Science (1-2) Poultry Husbandry 201 (2-2) Poultry Production	1 3 —		18
	17		
J	UNIOR '	YEAR	
Agricultural Education 301(3-0) Educational Psychology Agronomy 301(3-2)	3 4	Agricultural Economics 312(3-0) Agricultural Economics Agricultural Education 302(3-0)	3
Soils Animal Husbandry 409(3-2)	4	Principles of Education Genetics 301(3-2)	4
Animal Nutrition and Feeding Elective	7	Genetics Poultry Husbandry 304(2-2) Poultry Essentials	3
	18	Veterinary Medicine 455(2-0) Diseases of Poultry	2
		Elective	3
			18
. sı	ENIOR Y	YEAR	
Agricultural Education 401(2-6)	4	Agricultural Education 402(2-6)	. 4
Teaching Vocational Agriculture English 401(2-0)	2	Teaching Vocational Agriculture Animal Husbandry 416(3-2)	4
Public Speaking History 305(3-0)	3	Live Stock Management Dairy Husbandry 418(3-2)	4
Citizenship Marketing and Finance 401(3-0) Cooperative Marketing	3	Dairy Cattle Feeding and Mgmt. Flective	4
Elective	4		16

16

COURSE IN INDUSTRIAL EDUCATION

(Open only to students with at least one year of practical trade experience.)

FRESHMAN YEAR

First Semester Cre	edit	Second Semester Cre	dit
Chemistry 101(3-3) Inorganic Chemistry	4	Chemi try 102(3-3) Inorganic Chemistry	4
Engineering Drawing 111(0.6)	2	English 101(3-0)	3
Mechanical Drawing English 103(3-0)	3	Rhetoric and Composition Industrial Education 192(2-0)	2
Rhetoric and Composition Mathematics 101(3-0)	3	Vecational Education Mathematics 193(3-0)	3
Algebra Military Science(1-2)	1	Trigonometry Military Science(1-2)	1
*Elective	4	*Elective	4
•,	17		17
SOP	HOMORE	YEAR	
Economics 203(3-0) Principles of Economics	3	Fconomics 204(3-0) Principles of Economics	3
Engineering Drawing 201(0-2)	1	Engineering Drawing 202(3-2)	1
Mechanical Drawing Industrial Education 203(2-0)	2	Mechanical Drawing Industrial Education 292(2-0)	2
Trade Analysis Military Science(1-2)	1	Job Analysis Military Science(1-2)	1
Physics 203(3-3) General Physics	4	Physics 204 (3-3) General Physics	4
*Elective	6	Rural Sociology 204(3-0)	3
•	17	Introductory Rural Scelelegy *Elective	3
			17
-		W. A. D.	11
History 305(3-0)	UNIOR ?	YEAR History 322(3-0)	3
Citizenship		Industrial History of the U.S.	
Industrial Education 301(2-0) Methods and Management	2	Industrial Education 310(2-0) Course Making	2
*Elective	13	Industrial Education 312(3-0) Psychology Applied to Industry	3
	18	Industrial Education 314(1-2) Observation and Criticism	1
		*Elective	9
			18
s	ENIOR Y	YEAR.	
Industrial Education 409(2-0)	2	English 401(2-0)	2
Organization of Industrial Schools .		Public Speaking Industrial Education 406(2-0)	2
Industrial Education 411(2-9) Lesson Planning	2	Vocational Guidance †Industrial Education 416 (1-5)	3
†Industrial Education 415(1-5) Practice Teaching	3	Practice Teaching	
*Elective	11	*Elective	11
	18		18

^{*} For students with industrial experience approved by the head of the Department of Industrial Education and by the Dean of the School of Vocational Teaching, the total number of elective hours will be reduced by four semester hours for each year of certified industrial experience up to a maximum of 20 semester hours.

† Approved teaching experience with written reports may be substituted for Industrial Education 415, 416, on the basis of two semester hours for each year of such

experience.

COURSE IN RURAL EDUCATION

FRESHMAN YEAR

First Semester Cre	edit	Second Semester Cre	edit
Animal Husbandry 107(2-4) General Animal Husbandry	3	Agronomy 105(3-2) Crop Production	4
Biology 101(2-4)	3	Biology 102(2-4)	3
General Botany English 103(3-0)	3	General Botany English 104(3-0)	3
Rhetoric and Composition Mathematics 101(3-0)		Rhetoric and Composition Military Science(1-2)	1
Algebra Military Science(1-2)		Poultry Husbandry 201(2-2) Poultry Production	3
Rural Education 121		Rural Education 122(3-0) Elementary School Methods	3
Elementary School Methods	-	Elementary School Methods	17
900		1 2001.0	17
SOP	HOMORI		
Chemistry 101(3-3) Inorganic Chemistry	4	Chemistry 102(3-3) Inorganic Chemistry	4
English 231(3-0)	3	Dairy Husbandry 202(2-2)	3
English Literature Entomology 201(2-2)	3	Dairying English 232(3-0)	3
General Entomology Military Science (1-2)	1	English Literature Military Science(1-2)	1
Rural Education 221(3-0) Rural School Methods	3	Rural Education 222(3-0) Rural School Administration	3
Elective	3	Elective	3
	17		17
J	UNIOR '	YEAR	
Biology 207(2-4)	3	Economics 403(3-0)	3
Zoology Rural Education 321(3-0)	3	Principles of Economics History 305(3-0)	3
Secondary School Methods Rural Sociology 407(2-2)	3	Citizenship Rural Education 322(3-0)	3
Rural Sociology Elective	9	Secondary School Administration	9
		Diecure	_
-	18		18
S	ENIOR Y	EAR	
English 401(2-0)	2	Rural Education 422(3-0)	3
Public Speaking Rural Education 425(1-5)	3	History of Education Elective	15
Practice Teaching Elective	13		18
•	18		
	10		

COURSE IN INDUSTRIAL ARTS EDUCATION

FRESHMAN YEAR Credit. Second Semester Credit First Semester Engineering Drawing 111(0-6) 2 Engineering Drawing 124(2-4) 3 Descriptive Geometry Mechanical Drawing(3-0) 3 Engineering Drawing 201(0-2) 1 English 103Rhetoric and Composition Mechanical Drawing Engineering Drawing 202(0-2) 1 Mathematics 101(3-0) 3 Algebra Mechanical Drawing Mechanical Engineering 105(1-6) 3 Wood Work Military Science(1-2) 1 Mathematics 103(3-0) 3 Trigonometry Elective Mechanical Engineering 106(1-6) 3 18 Cabinet Making Military Science(1-2) Elective 18 SOPHOMORE YEAR Architecture 221Architectural Construction(1-4) 2 Architecture 222(1-4) 2 Architectural Construction Electrical Engineering 204(2-4) English 203(2-0) 2 Electric Wiring and Repair
English 210(2-0) 2 Composition and Literature Industrial Education 325(3-0) 3 Equipment and Supplies Argumentation Industrial Education 204(3-0) 3
Development and Practices Mechanical Engineering 101(1-2) 1 Engineering Problems
Mechanical Engineering 201(0-3) 1 Mechanical Engineering 102(1-2) 1 Pattern Making and Foundry Work
Military Science (1-2) 1
Physics 201 (3-2) 4
College Physics Engineering Problems Military Science (1-2)
Physics 202 (3-2)
College Physics Elective 3 3 Elective -----19 17 JUNIOR YEAR Agricultural Education 301(3-0) 3 Agricultural Engineering 402(2-4) Educational Psychology Automobiles and Trucks Agricultural Engineering 321(1-4) 2 History 305(3-0) Farm Shop
Industrial Education 301a ... Citizenship Industrial Education 310a(3-0) 3
Course Making
Industrial Education 324(1-3) 2 Methods of Teaching and Class Management Industrial Education 323(1-3) 2
Teaching Mechanical Drawing Teaching Machine Drawing
Mechanical Engineering 310(0-3) 1 Mechanical Engineering 309(0-3) Machine Shop Machine Shop Elective Rural Education 321 Secondary School Methods 18 Elective 4 18 SENIOR YEAR English 401(2-0) 2(3-0) 3 Public Speaking
Industrial Education 418(1-5) 3 Lesson Planning
*Industrial Education 415(1-5) 3 General Shop Methods
*Industrial Education 416(1-5) 3 Practice Teaching Practice Teaching

10

Elective

10

Elentive

^{*} Approved teaching experience with written reports may be substituted for Industrial Education 415, 416. on the basis of two semester hours for each year of such experience. If the student wishes to apply this course toward a teacher's certificate he must complete a minimum of 36 clock hours of supervised practice teaching under the direction of the Department of Industrial Education.

COURSES OF INSTRUCTION BY DEPARTMENTS

The courses of instruction are described on the following pages under the departments in which they are offered. Courses from 101 to 199 are primarily for freshmen, 201 to 299 for sophomores, 301 to 399 for juniors, 401 to 499 for seniors, 501 to 599 for graduate students; courses 571 to 599 are offered by members of the Agricultural Experiment Station Staff. First semester courses are as a rule given odd numbers, second semester courses, even numbers.

For courses in Religious Education see page 37.

The figures in parenthesis following the name of a course indicate the number of hours per week, theory and practice, respectively, devoted to the course. The credit value of the course is also indicated.

The roman numerals I, II, following the credit value of the course indicate the semester or semesters in which the course is offered. If the course runs throughout the session no numerals are shown.

The letter "S" indicates that the course is offered in the summer session only.

For convenience of reference, the departments are listed below in alphabetical order:

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Architecture135	Modern Languages 188
Biology 137	Municipal and Sanitary
Chemistry and Chemical	Engineering190
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Dairy Husbandry 149	Physics 193
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Farm and Ranch Management 163	Surgery 202
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Geology 165	Veterinary Physiology and
History 167	Pharmacology 205
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DEPARTMENT OF ACCOUNTING AND STATISTICS

Professor Leland, Associate Professors Weinke, Hamilton, Mr. Gragg.

201. Principles of Accounting. (3-3). Credit 4.

I, II

Analysis and recording of transactions, use of the journal, ledger, and trial balance, location of errors, columnar journals, controlling accounts, working sheets, financial statements, adjusting and closing entries, business procedure and forms.

Laboratory fee, \$1.00.

202. Principles of Accounting. (3-3). Credit 4.

П

A continuation of course 201. Accrued and deferred items, depreciation, corporation accounting, accounting for manufacturing concerns, voucher systems, classification and interpretation of accounts and financial statements. Laboratory fee, \$1.00.

301. Theory and Practice of Accounting. (3-3). Credit 4.

. Statement preparation and analysis, partnerships, corporations, instalment sales, agencies and branches, consignments, joint ventures, insolvent concerns, inventories, receivables and cash. Prerequisite: Accounting and Statistics

Laboratory fee, 50 cents.

302. Advanced Problems. (2-3). Credit 3.

П

Estate accounting, actuarial accounting, appraisals, depletion, good will, investments, reserves, funds, consolidations, foreign exchange, insurance, fixed liabilities, current and contingent liabilities. Prerequisite: Accounting and Statistics 301.

Laboratory fee, 50 cents.

303. Statistical Method. (3-3). Credit 4.

I. II

Application of statistical method to agricultural subjects: collection, tabulation, presentation, and analysis of data. A study of sampling, graphics, averages, ratios and coefficients, dispersion, skewness, probability and error, index numbers, seasonal and long-time trend, barometers and linear correlation.

Laboratory fee, 50 cents.

401. Cost Accounting. (2-3). Credit 3.

H

Development of cost accounting principles, cost elements, methods of control, order and process systems, estimated and standard costs, debatable points of theory, uniform methods, cost accounting for agricultural enterprises. Prerequisite: Accounting and Statistics 301.

Laboratory fee, 50 cents.

402. Cooperative Accounting. (1-3). Credit 2.

A study of the special features of accounting for various types of cooperatives, an analysis of the accounting systems devised and recommended by government agencies and farmer organizations. Each student is expected to

devise a system for some cooperative organization. Prerequisite: Accounting and Statistics 301.

Laboratory fee, 50 cents.

403. Income Tax. (2-3). Credit 3.

I

Income tax legislation; the present income tax law, regulations, treasury decisions, court decisions and departmental rulings, income tax problems and returns. Prerequisite Accounting and Statistics 202.

Laboratory fee, 50 cents.

404. Advanced Statistics. (2-3). Credit 3.

F

A brief review of the first course in statistics: collection, presentation, and elementary analysis of agricultural data. Advanced treatment of measures of relationship; linear, non-linear, multiple linear, and multiple non-linear; application of correlation, simple and multiple, to time series, and the problem of estimation. Prerequisite: Accounting and Statistics 303.

Laboratory fee, 50 cents.

405. Price Analysis. (2-3). Credit 3.

I

Relation between theoretical economics and statistics in the study of prices, methods of analyzing prices, supply and demand curves, elasticity of demand, price forecasting, study and critique of works on price analysis. Term paper required on factors affecting the price of an agricultural commodity. Prerequisite: Accounting and Statistics 303.

. Laboratory fee, 50 cents.

406. Agricultural and Business Cycles. (2-3). Credit 3.

П

An empirical and statistical study of agricultural data, production, consumption and price indexes; analysis of seasonal and long-time trends, and factors constituting cyclical fluctuation; theory, causes, effects and control of cycles from an agricultural point of view. Prerequisite: Accounting and Statistics 303.

Laboratory fee, 50 cents.

407. Auditing. (2-3). Credit 3.

П

Theory and practice of auditing; types of audits; audit procedure for individual assets, liabilities, and nominal accounts; working papers and reports; case studies. Prerequisite: Accounting and Statistics 301. (Formerly numbered 304).

Laboratory fee, \$1.00.

409. Accounting for Engineers. (2-3). Credit 3.

I

Principles of accounting directly related to the problems of the engineer, contractor, and architect; survey of the general accounting system as the source of cost data; development of the fundamental principles of valuation; introduction to cost accounting.

Laboratory fee, \$1.00.

FOR GRADUATES

501. Statement Analysis. (3-3). Credit 4.

I

An analytical study of the different kinds of statements for the guidance of executives, investors and creditors; the balance sheet; profit and loss ratios, Prerequisite: Accounting and Statistics 401, 407.

Laboratory fee, 50 cents.

DEPARTMENT OF AGRICULTURAL ECONOMICS

Professor Lee, *Associate Professor Paine, Assistant Professor McKim 101. Agricultural Resources. (3-0). Credit 3.

The basic principles of geography which determine man's activities, with particular reference to the physical and economic conditions influencing agricultural development; relationship between climate and vegetation, soils and man; economic and physical conditions influencing trade in agricultural products; a determination of potentialities of our remaining agricultural frontiers.

102. Agricultural Resources. (3-0). Credit 3.

A survey of potentialities and limitations of agricultural production in relation to population pressure; the agricultural revolution as manifested in changes in agriculture in old regions and in new parts of the world; physical bases of production of the leading agricultural commodities of the world, and the United States in particular, commercial movements with reference to surplus and deficit producing regions; present trends in the utilization of the world's agricultural resources. Prerequisite: Agricultural Economics 101.

301. Agricultural Geography of North America. (3-0). Credit 3.

A survey of the physical bases of production in the different portions of the continent, with especial attention to the factors most influential in determining America's agricultural development; a classification of the lands of North America; past development, present production, trends and possibilities of agriculture in Canada, New England, North Atlantic and Central States.

303. Economic History of Agriculture. (3-0). Credit 3.

The economic development of American agriculture, with some review of European agriculture prior to the settlement of this country. (Problems of land tenure, farm labor, credit and marketing; analysis of methods by which American farmers have attempted to solve these problems. Prerequisite: Economics 204, or 403. (Not offered in 1932-1933).

312. Agricultural Economics. (3-0). Credit 3.

An application of the principles of economics to agriculture. Economic data affecting agriculture as a national industry; a comparison of agriculture with the other important industries. The topics covered include farm population and farm life; land as a factor in production: land values; land

^{*} On leave, 1931-32,

policies; farm credit; insurance; labor; price economy; specialization and management; foreign markets for farm products; the relation of the tariff to agriculture; taxation; price cycles; land tenure; farmers' movements; farm wealth and income.

402. Property and Contract. (3-0). Credit 3.

The evolution of property rights; private and public property; the influence of property upon the distribution of wealth; social regulation of private property; future development of property; the evolution of contracts; types of contracts; philosophy of the laws of contracts; social control of contracts; the effect of contracts upon the distribution of wealth. Prerequisite: Economics 204 or 403.

423. Outlines of Land Economics. (3-0). Credit 3.

I

H

Characteristics of land as a factor in production; classification of land; land utilization; social ends of land utilization; property rights in land; land tenure; land valuation; land credit; land taxation; state and national land policies.

FOR GRADUATES

503. Land Problems. (2-4). Credit 3.

1

An extensive study of such problems as land tenure, land classification, land utilization, land taxation, and land valuation.

504. Historical Development of Agricultural Economics. (2-4). Credit 3. II

Agricultural economics defined and described; origin of agricultural economics: historical development of agricultural economics in Rome, England, Germany and France. This part of the historical work deals very largely with the biographical sketches of the writers concerned and with the history of economic conditions at the time they wrote; especially as related to agriculture. The works of such men as Arthur Young, Albrecht Thaer, and Von Thunen; modern agricultural economics; recent developments in agricultural economics; relation of agricultural economics to farmers' movements; relation of agricultural economics to general economics; essentials of a sound agricultural economics course. Prerequisite: Agricultural Economics 312.

571, 572. Research Methods. (2-4). Credit 3 each semester.

General survey of methods of research employed in various agricultural economic research organizations over the country, with special emphasis upon the methods and program of the Texas Agricultural Experiment Station in farm organization, marketing, taxation, and agricultural finance.

DEPARTMENT OF AGRICULTURAL EDUCATION

Professor Winkler, Professors Alexander, Dykes, Mr. Sherill

207. Psychology. (3-0). Credit 3.

I, II

An introductory course dealing with the elementary principles of psychology.

301. Educational Psychology. (3-0). Credit 3.

The applications of psychology to the problems of teaching.

302. Principles of Education. (3-0). Credit 3. II

An introduction to the field of general education, designed to acquaint the student with the principles of educational theory; the aim and meaning of education, emphasizing the vocational viewpoint.

401, 402. Teaching Vocational Agriculture. (2-6). Credit 4 each semester.

Analysis of the agricultural teacher's job; courses of study; annual plan, lesson plans; project outlines and supervision; equipment; reports; observation and directed teaching.

FOR GRADUATES

- 501. All-day Classes. (4-0). Credit 4. I Methods of teaching all day classes in vocational agriculture.
- 502. Supervised Practice. (4-0). Credit 4. II Methods of conducting supervised practice in vocational agriculture.
- 505, 506. Administration and Supervision of Agricultural Education. (4-0).

 Credit 4 each semester.

For teachers of agriculture desiring to pursue studies in problems of organization, administration and supervision of vocational agriculture, Experiment Station and Extension work.

- 507. Future Farmer Activities. (2-0). Credit 2. I Methods of conducting future farmer activities of statewide importance.
- 508. Promotional Activities in Vocational Agriculture. (2-0). Credit 2. 11 Principles of news writing, plans for collective exhibits, instructional booths, fairs and contests. Open only to teachers of Vocational Agriculture.
- 509. Part-Time Classes. (2-0). Credit 2. I Methods of organizing and conducting part-time classes in vocational agriculture.
- 510. Evening Schools. (2-0). Credit 2.

 Methods of organizing and conducting evening schools in vocational agriculture on a participation basis.
- 511. Evening School Problems. (2-0). Credit 2.

 Supervision of practice work, determining course content, follow-up work, setting up publicity programs, evaluating improved practices resulting from

evening school instruction.

512. Agricultural Outlook Material. (2-0). Credit 2. 11
Methods of using Agricultural Outlook Material. Open to teachers of agriculture and county agents who have had a course in cooperative marketing.

DEPARTMENT OF AGRICULTURAL ENGINEERING

- Professor Scoates, Associate Professors F. R. Jones, Thurmond, Research Associate Montfort, Assistant Professor Allison.
- 103, 104. Farm Building Construction. (0-3). Credit 1 each semester.

 Methods of construction of various buildings found on the farm. Includes masonry, as well as wood construction and installation of plumbing.

Laboratory fee, \$1.25 each semester.

- 201. Farm Machinery. (2-2). Credit 3.

 Construction, adjustment, operation and repair of all types of farm machinery; tilling, seeding, cultivating, fertilizing and power machinery.

 Laboratory fee, 50 cents.
- 203. Gas Engines. (2-2). Credit 3.

 Construction, operation, care and repair of farm gas engines.

 Laboratory fee, \$1.00.
- 216. Automotive Machinery. (3-3). Credit 4. II Construction, operation, care and repair of tractors, automobiles, and trucks. Prerequisite: Agricultural Engineering 203.

 Laboratory fee, \$2.00.
- 305. Terracing and Drainage. (2-3). Credit 3.

 Surveying with its farm application; principles of farm drainage as applied to open ditches, terraces, tile drains; promotion of drainage districts; use of dynamite, removal of stumps, law with respect to farm waters.

 Laboratory fee, 50 cents.
- 321, 322. Farm Shop. (1-3). Credit 2 each semester.

 A course for vocational teachers: soldering, belt lacing, rope knots and

A course for vocational teachers: soldering, belt lacing, rope knots and splices, concrete construction, carpentry, forging.

Laboratory fee, \$1.50 each semester.

- 402. Automobiles and Trucks. (2-3). Credit 3. II Construction, operation, care, and repair of the gasoline automobile and truck. Prerequisite: Agricultural Engineering 203. Laboratory fee, \$1.50.
- 413. Farm Buildings. (2-3). Credit 3.

 Design and location of farm buildings; building materials; construction, arrangement; ventilation, heating, lighting, water supply and sewage disposal.
- 418. Designing of Farm Structures. (2-3). Credit 3.

 A continuation of course 413.
- 419. Cotton Machinery. (2-2). Credit 3.

 Construction, adjustment, operation and repair of the various types of machines necessary in the production and preparation for marketing of cotton. Prerequisite: Agricultural Engineering 201.

422. Irrigation. (2-3). Credit 3.

П

For agricultural students without engineering background; emphasis on growing crops under irrigation conditions.

424. Terracing. (0-3). Credit 1.

П

The control of soil erosion and soil moisture by the use of terraces and other obstructions.

Laboratory fee, 50 cents.

425, 426. Seminar. (1-0). Credit 1 each semester.

A review and presentation of the results of selected lines of research in Agricultural Engineering.

428. Irrigation and Drainage. (2-3). Credit 3.

П

Principles of irrigation practice; source of water supply; methods of obtaining water; distribution systems; application of water to crops; measurement and duty of water; control of alkali. Principles of farm drainage as applied to open ditches, terraces, tile drains; promotion of drainage districts; use of dynamite; removal of stumps; law with respect to farm waters.

Laboratory fee, 50 cents.

FOR GRADUATES

- 501, 502. Advanced Drainage and Irrigation. (2-4). Credit 3 each semester. Advanced study of farm drainage and irrigation with special emphasis on recent developments. Prerequisite: Agricultural Engineering 305.
- 503, 504. Advanced Farm Machinery. (2-4). Credit 3 each semester.

 Advanced study of farm machinery with special emphasis on recent developments. Prerequisite: Agricultural Engineering 201.
- 505, 506. Advanced Farm Buildings. (2-4). Credit 3 each semester.

 Advanced study of farm buildings and farm home utilities. Prerequisite:
 Agricultural Engineering 418.
- 507. Cotton Machinery. (1-2). Credit 1.

1

An advanced course in cotton machinery used in the preparation of seed bed, seeding, cultivating, harvesting and ginning, with special emphasis on recent developments.

509, 510. Advanced Farm Power. (2-4). Credit 3 each semester.

Advanced study of farm power with special emphasis on recent developments. Prerequisites: Agricultural Engineering 203 and 216.

511. Advanced Farm Shop. (2-3). Credit 3.

I

Advanced study of farm shop with special emphasis on teaching problems; equipment, methods, supplies and projects. Prerequisite: Agricultural Engineering 321, 322.

Laboratory fee, \$1.50.

DEPARTMENT OF AGRONOMY

Professor J. Oscar Morgan, Professor L. G. Jones, Associate Professors Mogford, Stewart.

105. Fundamentals of Crop Production. (3-2). Credit 4.

Classification and distribution of farm crops; importance of good varieties and good seed; crop improvement; preparation of the seed bed; commercial fertilizers, manures, and lime; seeding practices; crop tillage; harvesting; meadow and pasture management; weeds; crop rotation; diseases and insect enemies.

301. Soils. (3-2). Credit 4.

Soil forming processes; geological classification of soils; organic matter; colloidal matter; soil structure and its modification; forms of soil water; soil water in relation to plants; control of soil water; soil heat; soil air; absorptive properties of soil; removal of nutrients by cropping and leaching; alkali soils; soil acidity; soil organisms; principles of fertilizer practice; farm manures; green manures; maintenance of soil fertility. Prerequisite: Chemistry 101, 102. Laboratory fee, 50 cents.

308. Forage Crops. (2-2). Credit 3.

П

I. II

The production, harvesting and preservation of alfalfa, cowpeas, soy beans, vetches, Sudan grass, sorghums, Bermuda grass, Johnson grass, Lespedeza and the other miscellaneous hay and pasture crops adapted to Southern agriculture; problems of meadow and pasture management.

Laboratory fee, 50 cents.

314. Field Crops. (3-2). Credit 4

П

The production, harvesting and utilization of corn, oats, wheat, barley, rye, rice, the grain sorghums and sugar cane.

Laboratory fee, 50 cents.

315. Fiber Crops. (2-2). Credit 3.

I

Cotton production, including species, varieties, improvement, adaptation, fertilization, tillage practices, harvesting, insects and diseases. Flax, hemp, and other miscellaneous fibre crops are treated briefly.

413. Soil and Crop Problems. (3-0). Credit 3.

I. II

Special problems dealing with the management and utilization of distinctive types of soils and soil condition and a detailed consideration of crop management problems under varying soil and climatic conditions.

Prerequisite: Agronomy 301.

415, 416. Soil and Crop Seminar (1-0). Credit 1 each semester.

A review and presentation of the results of selected lines of research, dealing with soils and crops.

417. Range and Pasture Improvement and Maintenance. (2-0). Credit 2. I Problems dealing with vegetation, improvement and maintenance of ranges and pastures. Weeds and poisonous plants and their eradication.

AGRONOMY 131

418. Soil and Water Conservation. (2-0). Credit 2.

П

The importance of soil and water conservation from the standpoint of the different soil types in the various agricultural regions, climatic conditions, cropping systems, and other influencing factors. Prerequisite: Agronomy 301. 420. Cotton Research Problems. (1-0). Credit 1.

Research methods as applied to cotton production and improvement.

421. Commercial Hay Grading. (0-3). Credit 1.

1

Detailed instruction in grading hays according to Federal standards, including a study of grade factors influencing the market values of hay; the kinds of inspections made on the markets in the United States; practice in grading baled hay according to the United States grades; certificate writing. Laboratory fee, \$1.00.

422. Commercial Grain Grading. (0-3). Credit 1.

H

Detailed instruction in grading grains according to Federal standards, including a study of dockage, weight, moisture, heat damage, foreign material and other factors influencing the commercial grade of corn, oats, wheat and the grain sorghums.

Laboratory fee, \$1.00.

FOR GRADUATES

501, 502. Advanced Farm Crops. (2-4). Credit 3 each semester.

An advanced study of field crops production and breeding, including a review of the more recent and noteworthy investigations in this field. 505,506. Advanced Soils. (2-4). Credit 3 each semester.

A review of our present knowledge of the soil as a medium for plant growth; study of the more recent and noteworthy investigations pertaining to soils and fertility.

507, 508. Advanced Cotton Production. (2-4). Credit 3 each semester.

An advanced study of cotton from the standpoint of species, varieties, breeding, fertilization, tillage, practices and harvesting. Extended use is made of recent cotton literature in scientific journals, experiment station bulletins, and such reference books on cotton as are available.

DEPARTMENT OF ANIMAL HUSBANDRY

Professor D. W. Williams, Professors Mackey, Buchanan, Associate Professor Knox, Assistant Professor Milhollin

107. General Animal Husbandry. (2-4). Credit 3.

Farm animals as a source of food, clothing, and labor; the place of livestock in farming; the place of the United States and of Texas in the livestock industry; history of the industry in the United States; heredity the basis for improvement; selection or judging and its importance; pedigrees; methods used in improvement; the importance of proper nutritional development; chemistry and physics the basis for nutrition; factors influencing efficiency in feeding; care and management as factors determining results obtained; the importance of sanitation and disease control to the live stock producer; the place and special advantages of each class of livestock; classifications used in showing live stock; classifications of the breeds and market types of horses, beef cattle, hogs, sheep and goats; the marketing machinery of the live stock industry.

202. The Breeds of Farm Animals. (2-2). Credit 3.

11

The origin and native homes of breeds of horses, cattle, sheep, and swine; early development; constructive breeders; adaptability; distribution; breed type and characteristics; breed organizations; publications; score card and comparative judging of representative animals. Prerequisite: Animal Husbandry 107.

203. Market Classes and Grades of Live Stock. (2-2). Credit 3. I, II

Age, type, quality, condition or finish, size and weight, sex, style, dressing percentage, methods of finishing, breeding, uniformity, as factors determining market classification; market classifications for each class of live stock; wholesale and retail meat cuts; by-products; comparative judging; classifying, grading and valuing market animals. Prerequisite: Animal Husbandry 107.

303. Animal Nutrition. (3-2). Credit 4.

1

Chemical composition of feeding stuffs; composition of farm animals; digestion; metabolism; functions of nutrients; vitamins; coefficients of digestibility; energy in feeds and its uses; feed requirements of animals; maintenance, growth; fattening; milk production; wool production; work; computation of rations; manurial value of feeds, nature and uses of feed stuffs including cereal by-products, legumes and legume seeds, oil bearing seeds and by-products, packing house by-products, hays, fodders, straws, pastures, forage, silage, and miscellaneous feeds. Prerequisite: Chemistry 212, 214.

307. Farm Meats. (0-3). Credit 1.

Ŧ

Farm meat supply; methods of slaughtering, dressing, cutting, and curing meats; utilization of by-products; factors influencing value of meat and dressing percentage of animals.

308. Live Stock Judging. (1-3). Credit 2.

11

Form as related to function in farm animals: characteristics considered in the selection and improvement of various breeds and types; factors determining value; score card and comparative judging.

403. Advanced Judging, (0-6), Credit 2.

Ī

, An advanced course in live stock judging. Prerequisite: Animal Husbandry 202.

406. Beef Cattle Production. (3-2). Credit 4.

П

The world beef cattle situation; historical development; systems of production and determination of the place of each; distribution and value in comparison with other meat animals; location of beef enterprise; establish-

ment of the herd; improvement methods; mating and reproduction; calving; feed and care of calf; development of stock for the breeding herd; wintering, summer management; cattle feeding; selection of feeds; value of feeds; financial aspect of beef production; equipment; parasites and diseases; fitting and showing, marketing. Prerequisite: Animal Husbandry 303 or 409.

409. Animal Nutrition and Live Stock Feeding. (3-2). Credit 4.

A modification of course 303 with a study of the practical feeding of horses, dairy cattle, beef cattle, sheep and swine.

410. Sheep and Angora Goat Production. (3-2). Credit 4.

Present status; history in the United States; methods and types of sheep raising; pure bred business; breeding; management and feeding of the breeding flock; growing young lambs; fattening sheep and lambs; marketing sheep and lambs; fitting and showing; parasites and diseases. Prerequisite; Animal Husbandry 303 or 409.

412. Swine Production. (3-2). Credit 4.

П

Historical; feeding and handling the breeding herd during various seasons; culling; records; the sow and the litter; growing and fattening pigs; forage crops; feeding on forage; dry lot feeding; choice and value of feeds; garbage disposal plants; prevention of disease; slaughtering and curing; the pure bred herd; fitting and showing. Prerequisite: Animal Husbandry 303 or 409.

413. Horse and Mule Production. (3-2). Credit 4.

Review of situation; historical development; mechanical vs. horsepower; anatomy; unsoundness; ailments and diseases; feeding the brood mare; stallions; growing and developing colts; feeding and handling horses at work; stables and equipment; harness; shoeing; fitting and showing; polo and saddle horse breeding and training; horse markets; jacks and jennets; mule production. Prerequisite: Animal Husbandry 303 or 409.

416. Live Stock Management. (3-2). Credit 4. II

A modification of courses 406, 410, 412, 413. Prerequisite: Animal Husbandry 409.

418. Wool and Mohair. (2-3). Credit 3.

П

Microscopic structure; chemical composition, production; preparation for market; market reports; marketing; comparison with other textile materials; measurement; grading; sorting; scouring; pullaries; process of manufacture of fabrics.

421. Advanced Studies of Breeds of Live Stock. (2-0). Credit 2. I Methods used in the development of outstanding animals; popular lines of breeding; breed improvement; characteristics and breeding of show winners. The following breeds will be considered: Hereford cattle, Percheron horses, Rambouillet and Delaine sheep, Duroc-Jersey hogs. Prerequisite: Animal

Husbandry 202.

422. Advanced Studies of Breeds of Live Stock. (2-0). Credit 2. II Continuation of course 421: Aberdeen-Angus and Shorthorn cattle, Bel-

gian horses, Hampshire and Shropshire sheep, Poland-China hogs. Prerequisite: Animal Husbandry 202.

423. Seminar (2-0). Credit 2

I

Research methods in animal experimentation; sources of error in experiment work; review of research literature with oral and written presentation. Prerequisite: Animal Husbandry 303, Genetics 301.

424. Range Live Stock Production. (3-0). Credit 3.

H

Review of historical development; types of ranges; types and breeds of livestock used; range livestock improvement; handling cattle, sheep and goats during various seasons of the year; culling of herds and flocks; range livestock losses including parasites, deficiency, diseases, droughts; stocking of the range under various conditions; carrying capacity determination; over and under grazing; water development; salting; feeding both regular and under emergency conditions; finishing on the range; equipment; labor; cost of production; marketing. Prerequisite: Animal Husbandry 303 or 409.

FOR GRADUATES

501, 502. Advanced Animal Nutrition. (2-4). Credit 3 each semester.

A continuation of material covered in course 303; review of more recent investigations; methods of investigations; sources of error.

505, 506. Advanced Live Stock Production. (3-2). Credit 4 each semester. A continuation of courses 406, 410, 412 and 413. The course is varied according to the class of livestock in which the student is most interested. Managerial problems of production will be considered in detail.

571, 572. Wool and Mohair Research. (3-4). Credit 4 each semester.

Offered only by individual agreement to graduate students qualified by previous training to do thesis work on some portion of an organized wool or mohair research project.

Studies under way include a determination of 'the grades and shrinkages of wool and mohair from registered and unregistered flocks. The wool and mohair grading and scouring laboratory is at the disposal of graduate students taking this course. Mr. Jones.

573, 574. Research in Animal Breeding.

A thesis course designed to furnish to students majoring in genetics, animal husbandry, or dairy husbandry, the opportunity to work out a breeding problem of sufficient practical importance to be organized as a regular research project of the Experiment Station. Portions of projects already organized are available as thesis subjects and include problems of inheritance in beef cattle, dairy cattle, sheep and goats. Most of the problems available involve principles of genetics and either animal husbandry or dairy husbandry, and students electing this course must be familiar with the fundamentals of those fields. Dr. Warwick.

DEPARTMENT OF ARCHITECTURE

Professor Langford, Professor Geist, Associate Professor Finney, Mr. Byrd, Mr. Johnson.

NOTE: The descriptions below apply to subjects included in the Courses in Architecture outlined for the Class of 1935 and thereafter. Descriptions of subjects included in the Courses in Architecture outlined for the Classes of 1933 and 1934 will be found in the 54th Catalogue.

101, 102. Architectural Drawing. (0-4, 0-6). Credit 1, 2.

Lettering, line drawing, mouldings, band ornaments, proportion of openings; application of the orders; architectural composition; india ink, and colorwashes.

107, 108. History of Architecture. (2-0). Credit 2 each semester.

Introduction to the background of architecture; Egyptian, Western Asiatic, Greek and Roman architecture.

109, 110. Freehand Drawing. (0-4). Credit 1 each semester.

Sketching from geometrical solids, simple objects, plaster casts, still life; elementary color and color wheels. Adaption of light and shade to drawing. 201, 202. Architectural Design. (0-10). Credit 3 each semester.

Simple problems in design and composition; presentation, rendering; application of elements of architecture; analytique; research. Prerequisite: For course 201, Architecture 102; for course 202, Architecture 201 and 203.

203. Shades, Shadows, and Perspective. (0-6). Credit 2.

A study of the principles of shades, shadows, and perspective, and of their application to various architectural subjects. Prerequisite: Eng. Drawing 124.

205, 206. Freehand Drawinng. (0-4). Credit 1 each semester.

Sketches in charcoal of the full length antique and other subjects; shaded charcoal drawing from the full length figure and from casts of architectural ornaments; water color studies; pen and ink drawing; out-door sketching. Prerequisite: Architecture 110.

215, 216. History of Architecture. (2-0). Credit 2 each semester.

Early Christian, Byzantine, Romanesque, and Gothic styles; architecture of the Renaissance and to the beginning of the 19th century in the principal European countries. Prerequisite: Architecture 108.

301, 302. Architectural Design. (0-16). Credit 5 each semester.

Major and sketch design problems of small ensemble involving composition, planning and presentation. Archaeological problems, library research. Prerequisite: Architecture 202.

305, 306. Freehand Drawing. (0-4). Credit 1 each semester.

Advanced freehand drawing from the antique and from life in various media; modelling in clay of sculptural and architectural decoration and ornament. Prerequisite: Architecture 206.

313, 314. Mechanics of Materials; Stress Analysis. (4-0, 3-3).

Credit 4 each semester.

A study of the principles of analytic mechanics and graphic statics; properties of materials, general theory of structural design. Prerequisite: Mathematics 111, 112.

315. Modern Architecture, (2-0). Credit 2.

I

An analysis of modern buildings; historical influences; modern development and tendencies. Prerequisite: Architecture 216.

320. Building Construction. (0-6). Credit 2.

П

Details in frame and masonry construction; general drawings; scale and full size details; working drawings. Prerequisite: Architecture 202.

401, 402. Architectural Design. (0-21). Credit 7 each semester.

Major design and sketch problems of large ensemble involving composition, planning, and presentation. Archaeological problems and library research. Prerequisite: Architecture 302.

412. Building Construction. (2-3). Credit 3.

L

Design of wood and steel framing as used in building construction; beams, girders, columns, roof trusses; analytic and graphic methods. Prerequisite; Architecture 313 and 314.

415, 416. The Fine Arts. (2-0). Credit 2 each semester.

History of the fine arts in their relationship to architecture; the historic styles of decoration; the development of furniture and furnishings; a study of the history of sculpture and paintings. Prerequisite: Senior classification.

417, 418. Concrete Structures. (3-0, 2-3). Credit 3 each semester.

Theory of reinforced concrete design and its application in the design of stabs, beams, girders, columns, and footings; concrete buildings. Prerequisite: Architecture 313, or Civil Engineering 305.

421, 422. Structural Design. (2-6). Credit 4 each semester.

Advanced problems in building construction; wooden and steel trusses; plate girders; critical study of steel frame work for high buildings. Prerequisite: Architecture 314, Civil Engineering 305.

423. Materials of Construction. (2-0). Credit 2.

Ι

A brief study of the materials of construction, their properties, characteristics, and uses. Prerequisite: Architecture 313, or registration in Civil Engineering 305.

425. Professional Practice. (2-0). Credit 2.

ĭ

Professional relations; office management; contracts; law of architecture and building; building economics; specifications. Prerequisite: Senior classification.

451, 452. Architectural Design. (0-27). Credit 9 each semester.

Advanced problems in architectural design; city planning; group studies: sketch problems and library research. Prerequisite: Architecture 402.

BIOLOGY 137

FOR GRADUATES

501, 502. Architectural Design. (0-24). Credit 8 each semester.

Design of buildings and groups of buildings. Practice, criticism; consultations: research.

503, 504. Architectural Construction. (2-8). Credit 5 each semester.

Theory and practice in advanced constructive design; foundations; walls; frames.

- 505, 506. Architectural Practice. (1-4). Credit 2 each semester. Contracts, specifications, superintendence; office methods.
- 507, 508. Architectural Presentation. (0-6). Credit 2 each semester. Sketching, rendering, color harmony and effects.
- 509, 510. Mechanical Equipment of Buildings. (1-4). Credit 2 each semester. Theory, practice, and research relating to building sanitation.

DEPARTMENT OF BIOLOGY

Professor Ball, Professor Reeves; Associate Professor *English; Assistant Professors Gibbons, *Doak; Acting Assistant Professor LaMotte; Mr. Gore, Acting Instructor Berry.

101, 102. General Botany. (2-4) Credit 3 each semester.

The external and internal form and structure necessary to the more extended study of life processes of plants. Types of various subdivisions of the plant-kingdom are used to illustrate the great fundamental principles of development and adaptation, and serve as a foundation for later work in classification. In the laboratory work each student is required to keep a notebook in which he records by drawings and notes the results of his work.

Laboratory fee, 50 cents each semester.

103, 104. General Botany. (2-4). Credit 3 each semester.

This course differs from the preceding in being more thorough and advanced.

Laboratory fee, \$1.00. each semester.

211, 212. General Biology. (2-4). Credit 3 each semester.

The structure of the animals; elementary vital phenomena; their functions and development of organisms; hygiene and sanitation; the causes and prevention of diseases; discussion of the principal biological theories. Introduction to the use of the microscope, laboratory technique, and scientific methods of observation and experiment.

Laboratory fee, \$1.00 each semester.

213. Plant Physiology. (3-2). Credit 4.

I, II

A course designed as a preparation for further work in agronomy and horticulture. Emphasis is laid on the study of the physiology of growth, nutrition and reproduction in plants, but not excluding other functions.

Laboratory fee, \$1.00.

^{*} On leave, 1931-32.

515. The Cotton Plant. (2-2). Credit 3.

I

An outline of the botanical relationships, morphology, special physiology and pathology of the cotton plant. The laboratory work consists of studies in the structure and physiology of the plant.

Laboratory fee, \$1.50.

416. Plant Diseases. (2-4). Credit 3.

H

A study of the biology and classification of fungi with special reference 207. General Zoology. (2-4). Credit 3.

The essential aims and plan outlined in the work in botany are continued in this course. Especial attention is given to forms of economic importance, Types of the various great groups of animals are considered as illustrating origin, development and distribution. Careful dissection and study of type forms, with notes and drawing are required in the laboratory work.

Laboratory fee, \$1.00.

317, 318. Comparative Vertebrate Anatomy. (2-4). Credit 3 each semester.

A detailed study of the anatomy of type chordates is undertaken from a comparative vicepoint. The lectures deal with the progressive development and evolution of the organs and organ systems, while in the laboratory the anatomy of the shark, fish, amphibian and mammal is carefully studied. Prerequisite: Biology 203, 204.

Laboratory fee, \$2.00 each semester.

341, 342. General Physiology. (3-4). Credit 4 each semester.

The structure of the human body; the physiology of the cell; nutrition, chemistry of food, digestion, metabolism; physiology of the muscular, nervous and circulation systems, and of the special senses. Prerequisite: Biology 203, 204 or 211, 212.

Course 341 is open to students in Physical Education.

Laboratory fee, \$1.50 each semester.

to pathogenic forms. Types of the more important plant diseases occurring in Texas are selected for study and the student is trained to investigate and identify the cause of trouble and is shown appropriate corrective measures. In the laboratory, the student studies the form, structure, and biology of selected fungi and learns routine methods of cultivation and identification. Prerequisite: Biology 101, 102, 206

Laboratory fee, \$1.00.

ZOOLOGY

203, 204. General Zoology. (2-4). Credit 3 each semester.

The fundamental principles of classification, morphology and physiology of the various phyla of the animal kingdom, with a discussion of life-histories and habits of representative species. In the laboratory type specimens are dissected.

Laboratory fee, \$1.00 each semester.

BACTERIOLOGY

206. Introductory Bacteriology. (1-4). Credit 2.

I, II

The nature and relation of bacteria. The laboratory work includes the preparation of culture media; of pure cultures; staining and microscopic technique; methods of identification. Prerequisite: Biology 101, 102.

Laboratory fee, \$1.50.

309, 310. General Bacteriology. (2-4). Credit 3 each semester.

The general nature and relations of bacteria, as exhibited in the study of selected types.

Laboratory: routine methods of isolation, preparation, and study of pure cultures; technical microscopy of bacteria.

Laboratory fee, \$1.00 each term.

319. Bacteriology of Milk. (2-4). Credit 3.

I

Application of bacteriology to milk; action of bacteria in milk; dairy sanitation; milk-borne diseases. Methods of analysis used in public health laboratories. Prerequisite: Biology 206.

Laboratory fee, \$1.50.

320. Bacteriology of Dairy Products. (2-4). Credit 3.

H

A study of the actions of micro-organisms in the ripening of cheese, butter and fermented milks; relation of micro-organisms to quality in milk products. Prerequisite: Biology 319.

Laboratory fee, \$1.50.

409, 410. Advanced Bacteriology. (2-4). Credit 3 each semester.

For students who elect special work in bacteriology. Prerequisite: Biology 309, 310.

Laboratory fee, \$1.00 each semester.

418. Water Bacteriology. (1-4). Credit 2.

11

The relations of bacteria and similar organisms to water, and water supplies, sewage and sewage disposal. The laboratory work consists of preparation of culture media; qualitative and quantitative analysis of water, sewage and sewage effluents.

Laboratory fee, \$1.50.

FOR GRADUATES

501, 502. Vegetable Morphology. (2-4). Credit 3 each semester.

A study of general cytology followed by a consideration of plant morphology, with emphasis on the structure of the flowering plants.

The laboratory work includes training in the preparation of permanent miscroscopic slides.

Laboratory fee, \$2.00 each semester.

503, 504. Advanced Vertebrate Zoology. (2-4). Credit 3 each semester.

Comparative anatomy of vertebrate types. The origin, development and

evolution of the organs and organ systems; anatomical evidence of evolution. Laboratory work; detailed dissection of selected vertebrate types.

Laboratory fee, \$2.00 each semester.

505, 506. Advanced Bacteriology. (2-4). Credit 3 each semester.

. Advanced methods of bacteriological analysis of water, milk and foods; sewage.

Laboratory fee, \$2.00 each semester.

507. Diseases of Cotton. (2-4). Credit 3.

I

An outline of the life history of the more important diseases of the cotton plant; measures of control.

509, 510. Advanced Plant Physiology. (2-4). Credit 3 each semester.

An extended study of the responses made by the plant to various external and internal stimuli, especially gravitation, light, heat, water, and other chemical bodies. An examination of the physiology of growth, nutrition and reproduction.

Experimental investigation of such responses is made in the laboratory work.

511, 512. Biochemistry of the Cotton Seed. (2-4). Credit 3 each semester.

The composition of the various organs and the tissues of the cotton seed.

Standard microchemical methods are used. The work is designed to develop facts of importance to manufacturers of cotton seed products.

Laboratory fee, \$2.00 each semester.

513, 514. Advanced Plant Pathology. (2-4). Credit 3 each semester.

A study of the morphology and physiology of fungi.

Prerequisite: Biology 101, 102 and 416.

Laboratory fee, \$2.00 each semester.

571, 572. Research in the Physiology of the Cotton Plant. (2-4).

Credit 3 each semester.

For students specializing in cotton. Thorough studies are made of the structure of the cotton plant, its metabolism, its response to various fertilizers and to temperature of air and soil, its normal requirements for fertilization, and abnormal conditions resulting in the shedding of its blossoms. Dr. Taubenhaus.

DEPARTMENT OF CHEMISTRY AND CHEMICAL ENGINEERING:

Professor Hedges, Professors Thornton, Brayton, Burchard, Jensen, Associate Professor Bauer, Assistant Professors Koenig, B. C. Jones Harter, Mr. Bishop, Mr. Harrington, Mr. Snuggs, Mr. Middleton, Mr. Potts, Mr. Eads.

CHEMISTRY

101, 102. General Inorganic Chemistry. (3-3). Credit 4 each semester.

Foundation principles of chemical activity. Industrial applications of the

more important chemical processes are briefly described, and organic chemistry is touched upon.

General laboratory work, duplication of lecture experiments and simple tests of technical importance. The laboratory work of the last half of the second semester deals with elementary qualitative analysis.

Laboratory fee, \$2.00 each semester.

103, 104. Inorganic Chemistry. (3-4). Credit 4 each semester.

Same as course 101, 102, with the addition of one hour of laboratory per week.

Laboratory fee, \$2.00 each semester.

205. Qualitative Analysis., (2-8). Credit 5.

The theory and practice of fundamental analytical operations designed to enable the student to make rapid and accurate analysis of substances of average complexity, and to understand the steps by which his results are obtained.

The laboratory work consists of a study of the properties and reactions of the more common basic and acidic radicals, their separation and identification from mixtures, the method of getting solids into solution for analysis and the analysis of unknown substances. Prerequisite: Chemistry 101, 102.

Laboratory fee, \$4.00.

206. Organic Chemistry. (3-2). Credit 4.

The subject is treated primarily as a pure science. In the laboratory a study is made of the properties and typical reactions of compounds discussed in the theory. Prerequisite: Chemistry 101, 102.

Laboratory fee, \$2.50.

207. Quantitative Analysis. (2-3). Credit 3.

l abamaian

A considerable portion of the class-room time is devoted to chemical calculation involved in the practice. The laboratory work consists of a number of carefully selected experiments in quantitative analysis designed to typify operations of general application. Prerequisite: Chemistry 101, 102.

Laboratory fee, \$3.00.

208. Technical Analysis. (1-3). Credit 2.

11

This course is designed to give the student an insight into the methods employed in the analysis of materials connected with his profession and the applications of the results obtained to practical problems. The work in the laboratory is discussed and explained, and its application to engineering problems emphasized. Fuels, steels, cements, waters for industrial purposes, and industrial products commonly met with, are analyzed by rapid technical methods. Prerequisite: Chemistry 207.

Laboratory fee, \$3.00.

212. Agricultural Chemistry. (3-0). Credit 3.

I, H

Fundamental chemical principles of agriculture; the application of chemistry; the chemical terms used in Experiment Station literature; the chemistry

of plant substances, soils, irrigation water, fertilizers, insecticides, and fungicides. An elementary study of organic chemistry is made in the beginning. Prerequisite: Chemistry 102.

214. Agricultural Analysis. (1-3). Credit 2.

1. 11

Chemical analysis of feeds, fertilizers, soils, insecticides, and fungicides. Prerequisite: Chemistry 102.

To be taken with Chemistry 212.

Laboratory fee, \$3.00.

301, 302. Organic Chemistry. (3-4). Credit 4 each semester.

An introduction to the chemistry of the compounds of carbon. A study of general principles, and their application to various industrial processes. The laboratory work serves as the basis of the course. The student here familiarizes himself with the reactions, properties and relations of typical organic compounds. Prerequisite: Chemistry 101, 102.

Laboratory fee, \$2.00 each semester.

308. Dyeing. (2-4). Credit 3.

H

Physical and chemical properties of textile fibers, dyes, dyestuffs, and mordants; principles and appliances involved in the commercial coloring of textiles, especially cotton and woolen goods. Most of the principles discussed in the theory are tested in the laboratory, with especial attention to the production of dyes to meet particular commercial requirements. Prerequisite: Chemistry 206.

Laboratory fee, \$2.00.

314. Dairy Chemistry. (3-4). Credit 4.

-1

Chemical analysis of milk, butter, cheese and other food products with an interpretation of the results. Prerequisite: Chemistry 212, 214.

Laboratory fee, \$2.00.

342. Physical Chemistry. (3-4). Credit 4.

11

Explanation of basic chemical theories and principles with reference to their relationship to transformations in living matter. Special emphasis on such topics as atomic structure, diffusion and osmotic pressure, colloids, chemical equilibrium, catalysis, reaction velocity, hydrogen-ion concentration and its importance in biological processes. Prerequisite: Chemistry 302.

Laboratory fee, \$2.00.

438. Seminar. (1-0). Credit 1.

H

441. Analysis of Water and Sewage. (2-3). Credit 3. Sanitary analysis of water and sewage.

1

Laboratory fee, \$2.00.

FOR GRADUATES

501, 502. Advanced Agricultural Chemistry. (3-4). Credit 4 each semester. Similar to courses 212, 214, with more advanced work. Laboratory fee, \$2.00 each semester.

- 503, 504. Advanced Industrial Chemistry. (2-8). Credit 5 each semester. A study of industrial processes. Laboratory fee, \$2.00 each semester.
- 507, 508. Advanced Organic Chemistry. (2-8). Credit 5 each semester. Preparation of organic compounds. Laboratory fee, \$2.00 each semester.
- 509, 510. Cotton Seed Oil. (2-4). Credit 3 each semester. A study of cotton seed oil production and refining. Laboratory fee, \$2.00 each semester.
- 571, 572. Special Topics in the Chemistry of Animal Nutrition. (2-6).

Credit 4 each semester.

Vitamines, amino acids, mineral contents of feeds, productive protein, and productive energy as related to animal nutrition.

The laboratory work is under Agricultural Experiment Station conditions and includes analysis of feeds, experiments, and a thesis on the chemistry of animal nutrition. Dr. Fraps.

573, 574. Special Topics in the Chemistry of Animal Nutrition. (2-6).

Credit 4 each semester.

A continuation of course 571, 572. Dr. Fraps.

575, 576. Special Topics in the Chemistry of Soils. (2-4).

Credit 3 cach semester.

The study of soil acidity, phosphoric acid, potash, and nitrogen related to crops, and similar topics by means of books, bulletins, original articles, and the preparation of reports. The laboratory work accompanying the course will depend upon the experience of the student. Dr. Fraps.

577, 578. Special Topics in the Chemistry of Soils. (2-4).

Credit 3 each semester.

A continuation of course 575, 576.

CHEMICAL ENGINEERING

The foundation for the work in chemical engineering is laid in the courses in chemistry already described. Chemistry and chemical engineering cover such a broad field that in the senior year students are advised to specialize in some branch of technical analysis, such as its application to the cotton seed oil industry, petroleum technology, problems of sanitation, or the chemical control of a cement plant. The chemical industries most highly developed in this state are inspected from time to time.

202. Elementary Quantitative Analysis. (2-8). Credit 5.

11

An introduction to the methods of exact analysis, as preliminary training for the more advanced courses. In the class room the practice and theory of the laboratory exercises are dealt with by lectures and recitations. Special attention is given to stoichiometry.

The laboratory work consists of a number of carefully selected experiments in quantitative analysis designed to typify operations of general application. The work is first gravimetric, then volumetric. In the early periods compounds of known composition and purity are analyzed, but later

substances of industrial significance, whose percentage composition is known only to the instructor, are undertaken. Near the close of the semester an analysis is made of a carbonate of silicate rock for the commonly determined constituents. Prerequisite: Chemistry 205.

Laboratory fee, \$4.00.

301. Quantitative Analysis. (2-8). Credit 5.

I

Lectures, recitations and conferences dealing with technical methods of analysis, both rapid and exact. Before beginning an analysis the student is required to consult current literature and standard books of reference and present a written outline for criticism and suggestion. The laboratory work comprises the analysis of limestone, fuels, lubricating oils, gas, boiler water, iron and steel, alloys, ores, paint, soap, sugar, asphalt and other materials of engineering and industrial importance. Prerequisite: Chemical Engineering 202.

Laboratory fee, \$4.00.

407. Industrial Chemistry. (3-0). Credit 3.

1

The principal applications of chemical processes to commercial products, mostly organic in nature, such as gas manufacture, petroleum products, soaps, the starch and sugar industries, and the manufacture of paper, leather, and explosives; the manufacture of fertilizers, cements and ceramics. Prerequisite: Chemistry 101, 102.

408. Metallurgy of Iron and Steel. (2-0). Credit 2.

Metallurgy of iron and the manufacture of steel are considered in detail with especial attention to the nature and location of valuable iron ore deposits, together with suitable fluxes; the nature and availability of proper fuels, together with the furnaces used; the constitution of the resulting pig iron and the manufacture of steel therefrom; the chemistry of the different kinds of steel and their adaptability in engineering practice. Prerequisite: Chemistry 101, 102.

409. Gas and Oil Technology. (3-6). Credit 5.

I

Application of chemistry and engineering to gas, natural gasoline, petroleum, and cotton seed soil. The laboratory work comprises the refining of petroleum and the production and refining of cotton seed oil. Prerequisite: Chemistry 302.

Laboratory fee, \$4.00.

411. Physical Chemistry. (3-4). Credit 4.

I

Explanation and mathematical development of the theories and principles of chemistry. Topics discussed are atomic structure, gas laws, thermodynamics, thermochemistry, liquids, solutions, osmotic pressure, and colloids. Experiments in the laboratory substantiate the theories and principles developed in the class room. Prerequisite: Chemistry 302.

Laboratory fee, \$2.00.

414. Sanitary Chemistry. (3-4). Credit 4.

П

Sanitary examination of food, milk, and milk products, and the sanitary analysis of water, including water treatment methods. Methods of purification

of water, as the use of sand filters, coagulants, and algicides; sources of pollution of water and milk supplies and their relation to public health, problems common to the sanitary chemist and the engineer. Prerequisite: Chemistry 206 or 301, 302.

Laboratory fee, \$4.00.

416. Chemical Technology. (3-4). Credit 4.

П

The application of chemical theories and laws to industrial processes, organic chemical processes being emphasized, especially those dealing with the refining of petroleum, cotton seed oil, and sugar. Prerequisite: Chemical Engineering 409.

Laboratory fee, \$4.00.

418. Physical Chemistry. (3-4). Credit 4.

П

Intensive study of homogenous and heterogeneous equilibria, the phase rule, chemical kinetics, catalysis, hydrogen-ion concentration, electrolytic and galvanic cells and electrochemistry, photochemistry, and radio activity. Prerequisite: Chemical Engineering 411.

Laboratory fee, \$2.00.

419. Petroleum Refining. (3-0). Credit 3.

I

The application of chemical theories and laws to the refining of petroleum.

422. Animal and Vegetable Oils. (3-4). Credit 4.

П

Chemical examination of animal and vegetable oils with special reference to the detection of adulterants. Prerequisite: Chemistry 302.

Laboratory fee, \$4.00.

DEPARTMENT OF CIVIL ENGINEERING

Professor Richey, Professors McNew, Munson, Grinter, Associate Professor Sandstedt, Assistant Professor Orr, Mr. Frank, Mr. C. S. Adams.

201. Plane Surveying. (3-3). Credit 4.

Chaining; the adjustment, use and care of compass, transit, level, plane table, and hand instruments; measurement of angles; land surveys and computations; stadia, topographic, city, and general surveying; observations for true meridian and latitude; plotting results. Prerequisite: Mathematics 103, or 112.

Laboratory fee, 75 cents.

202. Railroad Engineering. (3-3). Credit 4.

H

Outlining reconnaissance, preliminary, and location surveys, computing and staking out simple and compound curves; changes in alignment, and connecting curves; frogs and switches, turnouts, and transition curves. Prerequisite: Civil Engineering 201.

204. Analytical Mechanics. (3-0). Credit 3.

П

Fundamental principles; coplanar and non-coplanar forces; external reactions and pin reactions; centroids; friction; moment of inertia. Prerequisite: Mathematics 203; to be accompanied by Mathematics 204.

206. Plane Surveying. (1-3). Credit 2.

I. II

Fundamental principles of surveying, use of transit and level in making layouts of buildings, running profile surveys. Prerequisite: Mathematics 103 or 112.

Laboratory fee, 50 cents.

300S. Surveying Practice. Summer following Sophomore year, 6 weeks. First six weeks of summer session.

Practice in leveling, land surveying, topographic surveying including base line and meridian measurements, triangulation, and taking topography with transit and plane table; preliminary and location surveys for railway and for highway. Full working days are spent in the field and the office. Prerequisite: Civil Engineering 202.

Laboratory fee, \$1.50.

305. Mechanics of Materials. (30). Credit 3.

I. II

The resistance of materials and the mechanics of pipes, riveted joints, beams, columns, shafts. Elastic curve and the deflection of beams, combined stresses, resilience, and impact. Prerequisite: Mathematics 204; Civil Engineering 204 or equivalent.

311. Hydraulics. (3-0) Credit 3.

I. II

The laws governing the action of water at rest and in motion, as related to engineering problems; the flow of water in pressure mains, sewers, aqueducts, open channels, and in rivers; measurement of the flow of water by nozzles, orifices, weirs and meters; estimates for water supply and water power, theory and efficiency of water wheels, motors, turbines, rams and pumps. Prerequisite: Civil Engineering 204, or equivalent.

315. Strength of Materials Laboratory. (0-2). Credit 1.

Determination of the strength, ductility, modulus of elasticity, and other properties of engineering materials. Tests of timber, steel, cast iron, cement, and reports showing results. Prerequisite: Civil Engineering 305 or registration in that course.

Laboratory fee, \$1.00.

331. Analytical Mechanics. (3-0). Credit 3.

A continuation of course 204; rectilinear and curvilinear motion; work and energy; power, momentum and impulse. Prerequisite: Civil Engineering 204.

333. Railroad Surveying. (0-3). Credit 1. I Field and office work covering transition curves, turnouts, vertical curves,

earthwork, overhaul, track facilities for industrial plants, grade revision. Prerequisite: Civil Engineering 202.

Laboratory fee, 75 cents.

335. Mapping and Estimating. (0-4). Credit 1.

I

Making topographic map of a part of the College campus, from data secured in course 300; making contour map, profiles and estimates for the railway and highway line located in course 300. Prerequisite: Civil Engineering 300.

336. Hydraulics Laboratory. (0-2). Credit 1.

I, II

Calibration of nozzles, orifices, water meters, weirs, pressure gauges; efficiency tests on impulse motors, hydraulic ram, and on one, two, and three-stage centrifugal pumps. Prerequisite: Civil Engineering 311 or registration in that course.

340. Elementary Structural Analysis. (3-0). Credit 3.

H

Loads and reactions for simple structures; review of moment and shear in beams; influence lines for beams and trusses; algebraic and graphical methods for determining stresses in trusses. Prerequisite: Civil Engineering 305.

342. Structural Drafting. (0-4). Credit 1.

П

Application of graphical methods in solving reactions and stresses in simple structures; designing and detailing of structural members. Prerequisite: Civil Engineering 340 or registration in that course.

344. Mechanics of Reinforced Concrete. (2-0). Credit 2.

H

Theory of stress distribution in plain and reinforced concrete beams; derivation of working formulas for rectangular reinforced beams and T-beams; stress determination and elementary design of beams; theory, investigation, and design of reinforced columns. Prerequisite: Civil Engineering 305.

407. Roads and Pavements. (3-0). Credit 3.

I

A brief study of country roads and city pavements. Highway location, design, construction and maintenance; road laws, finances, organization and supervision briefly considered. The text is supplemented by lectures, the use of bulletins, models and samples of materials. Prerequisite: Civil Engineering 201, 204.

414. Reinforced Concrete Design. (2-3). Credit 3.

П

A study of the design of various types of reinforced concrete structures, such as buildings, bridges, retaining walls, culverts. Practice in the making of simple designs and working drawings. Prerequisite: Civil Engineering 344.

417. Bituminous Materials. (2-3). Credit 3.

1

Origin, production, specification, and tests of bituminous materials and mixtures used in the construction and maintenance of roads and pavements. Prerequisite: Senior classification in engineering.

Laboratory fee, \$2.50.

423. Structures. (2-4). Credit 3.

I

Types of highway bridges; calculation of stresses; design of bridge floors; beam bridges; plate girders; high and low truss bridges; bridge details, deflections. The practice consists chiefly in making design computations and general drawings for a low riveted truss bridge in accordance with a given set of specifications. Prerequisite: Civil Engineering 340, 342.

443. Materials of Construction. (0-4). Credit 1.

H

A laboratory study of the suitability of various materials of engineering, including brick, stone, sand, gravel, cement, mortars, concrete. Prerequisite: Civil Engineering 407.

Laboratory fee, \$3.50.

448. Engineering Economics. (3-0). Credit 3.

I

Study of first cost and operating costs, business units and business statistics; valuation; cost estimating; engineering reports. Prerequisite: Senior classification, engineering courses.

452. Structural Engineering. (3-0). Credit 3.

П

An introduction to the various methods of analyzing and designing indeterminate structures. Prerequisite: Civil Engineering 423.

455. Steel Buildings. (2-3). Credit 3.

1

Structural features of mill buildings, office buildings, warehouses.

Design of one of the foregoing types of buildings. Prerequisite: Civil Engineering 423, or registration in that course.

456. Highway Administration and Design. (2-3). Credit 3.

H

Study of highway laws, the administration of streets and highway improvements, and the procedure followed in planning and executing municipal street improvements. Problems in pavement design. Prerequisite: Civil Engineering 407, 417.

Laboratory fee, \$1.50.

458. Hydraulic Engineering. (2-3). Credit 3.

П

An elementary study of the control and utilization of water resources for irrigation, power, and flood protection; design of hydraulic structures; channel improvement; inflow-outflow curves; hydrographs. Prerequisite: Civil Engineering 311.

461. Masonry Construction. (2-2). Credit 3.

T

Brick and stone masonry; cement and aggregates; theory of proportioning concrete; methods of mixing, placing, and caring for concrete; foundations; plain concrete structures, including dams, retaining walls, abutments, piers, culverts; forms and falsework. Problems in design and investigation of masonry structures. Prerequisite: Civil Engineering 305.

463. Hydrology. (3-0). Credit 3.

1

A study of the occurrences and measurement of precipitation and stream flow; relations between precipitation and run-off; estimating seepage, evap-

oration, run-off, storage, and flood discharges for drainage basins. Prerequisite: Civil Engineering 311.

FOR GRADUATES

521, 522. Advanced Stress Analysis. (3-3). Credit 4 each semester. Stresses in statically indeterminate frames; deflections; secondary stresses; elastic arches; cantilever, continuous, and swing bridges.

523. 524. Structural Design. (2-6). Credit 4 each semester.

Reinforced concrete arch bridges; concrete buildings; steel buildings.

525, 526. Highway Construction and Materials. (3-3). Credit 4 each semester. Highway design and construction, including location, drainage, foundations, types, costs. Laboratory and field investigations of highway materials and pavement mixtures.

527, 528. Hydraulic Engineering. (3-3). Credit 4 each semester.

Advanced hydrology, water power development, flood control, irrigation. 541, 542. Research. Credit 2 to 6.

Technical research; project subject to approval of head of department.

DEPARTMENT OF DAIRY HUSBANDRY

Professor Shepardson, Professor Darnell, Associate Professor Renner

202. Dairying. (2-2). Credit 3.

The secretion of milk; composition of milk and its products; use and application of the lactometer, methods of cream raising and separation; systems of making butter and ice cream.

Laboratory fee, 75 cents.

301. Market Milk. (3-2). Credit 4.

Food value of milk; handling and sale of sanitary milk; city milk inspection.

Laboratory fee, \$1.00.

303. Dairy Cattle Judging. (0-4). Credit 1.

I

П

A study of comparative judging of dairy cattle.

306. Butter Making and Factory Management. (3-2). Credit 4.

Types of creameries; raw product; grading; pasteurization; use of commercial starters; ripening; churning; salting and working butter; explanation of various physical phenomena in making, packing, and storing butter. Creamery location and plans; business accounting as applied to management in various types of creameries. Prerequisite: Dairy Husbandry 202.

Laboratory fee, \$1.00.

310. Advanced Dairy Cattle Judging. (0-2). Credit 1.

П

Advanced study of dairy cattle judging with particular attention to show ring type and classification. Prerequisite: Dairy Husbandry 303.

311. Technical Control of Dairy Products. (1-4). Credit 2. Methods of testing dairy products for fat, acidity, salt, moisture, solids. adulteration and overrun. Prerequisite: Dairy Husbandry 202. Laboratory fee, \$1.00.

407. Ice Cream Making and Refrigeration. (3-2). Credit 4.

Mixing and freezing ice cream, sherberts and other frozen products and the physical principles involved; type of freezers; flavoring materials; fillers, binders, ice cream standards; the theory and practice of artificial refrigeration and its use in the ice cream plant. Prerequisite: Dairy Husbandry 202.

Laboratory fee, \$1.00.

408. Cheese Making. (2-4). Credit 3.

П

A study of various types of cheese, including manufacture, ripening and marketing. Practice in the manufacture of Cheddar cheese and the more common types of soft cheese. Prerequisite: Dairy Husbandry 202.

Laboratory fee, \$1.00.

409. Advanced Study of Dairy Breeds. (1-4). Credit 2.

Historical study of prominent families and individuals of the major dairy breeds. Prerequisite: Dairy Husbandry 202, Genetics 301.

411. History of Dairying. (3-0). Credit 3.

The development of the industry, stressing influence of inventions; natural resources of leading dairy countries; types of organization; present status of the industry. Prerequisite: Dairy Husbandry 202.

415. Condensed Milk and Milk Powder. (3-0). Credit 3.

The food value, manufacture and distribution of condensed and evaporated milk, milk powder, milk sugar, casein and other milk products; a study of milk substitutes. Prerequisite: Dairy Husbandry 301.

417. History and Development of Dairy Cattle. (3-2). Credit 4.

A general history of dairy farming and its place in a permanent system of agriculture; history, origin and classification of dairy cattle and dairy cattle breeds; general considerations in selecting breeds, individual cows and herd sires; dairy cattle breeding and other problems of the breeder. Prerequisite: Genetics 301.

Laboratory fee, 75 cents.

418. Feeding and Management of Dairy Cattle. (3-2). Credit 4. The care, feeding and management of the dairy herd; calf raising, developing the dairy heifer; herd records and record keeping. Prerequisite: Animal

Laboratory fee, 75 cents.

Husbandry 303 or 409.

FOR GRADUATES

- 501, 502. Advanced Dairy Production. (2-4). Credit 3 each semester. An advanced study of general production problems.
- 503, 504. Advanced Dairy Manufactures. (2-4). Credit 3 each semester. An advanced study of general manufacturing problems.

ECONOMICS 151

505, 506. Research in Dairy Production. (2-6). Credit 4 each semester.

A study of research methods and a review of scientific literature dealing with special dairy production problems. Students will select individual problems, subject to the approval of the head of the department.

507, 508. Research in Dairy Manufacture. (2-6). Credit 4 each semester.

A study of research methods and a review of scientific literature dealing with special dairy manufacturing problems. Students will select individual problems subject to the approval of the head of the department.

DEPARTMENT OF ECONOMICS

Professor Clark, Professor Barger, Assistant Professors *I. G. Adams, Vaughn, Acting Assistant Professor McDougal

203, 204. Principles of Economics. (3-0). Credit 3 each semester.

The fundamental principles of economics, including the theory of economic activities concerning production, distribution and consumption; the practical economic problems of money, credit and banking, foreign exchange, tariff, transportation, trusts, insurance, taxation.

311. Money and Banking. (3-0). Credit 3.

I

The evolution of money, the various forms of credit, the history of banking institutions, banking in other countries, the Federal Reserve System, and current monetary and banking problems. Prerequisite: Economics 203, 204, or 403.

315. Economics of Insurance. (3-0). Credit 3.

I

The historical development and general economic aspects of the insurance 51 business. Special attention is given to property and life insurance.

Prerequisite: Economics 203, 204, or 403.

316. Business Law. (3-0). Credit 3.

H

The nature and scope of law, contracts, sales agency, negotiable instruments, employment, personal property, real property, wills and inheritance, surety, bankruptcy. Supplementary studies of Texas laws and of court decisions. Prerequisite: Sophomore standing.

318. Labor Problems. (3-0). Credit 3.

П

Theories of wages, development of trade unions and labor unions, proposals for solution of labor problems, labor legislation, and other problems growing out of modern industrial development.

Prerequisite: Economics 203, 204, or 403.

403. Principles of Economics. (3-0). Credit 3.

I. II

The theory of economic activities concerning production, distribution and consumption, and the practical economic problems of money, credit and banking, foreign exchange, tariff, transportation, taxation, trusts, insurance.

^{*} On leave, 1931-32.

The same ground is covered as in course 203, 204, but in a more compact way.

408. Corporation Finance. (3-0). Credit 3.

ÍΠ

The common forms of business organizations with special attention to corporations; advantages and disadvantages of incorporation, formation and organization of corporations, capital stock and bonds, legal status of corporations, bankruptcy and reorganization. Prerequisite: Economics 403 or its equivalent.

409. Foreign Trade and Exchange. (3-0). Credit 3.

I

The principles of international commerce, methods of conducting foreign trade, and the theory and practice of foreign exchange. Prerequisite: Economics 403 or its equivalent.

412. Public Finance and Taxation. (3-0). Credit 3.

- 11

The purpose of the course is to give a working knowledge of public financial institutions and practices. A model system of taxation is discussed; and taxes particularly affecting the agriculturist are studied in detail. Among the topics considered are: the amount and growth of public expenditures; the sources of revenue; budgetary methods; principles which should govern appropriations; public industries and price making; the principles of taxation; the important kinds of taxes; the principles of borrowing; the management of public debts. Prerequisite: Economics 203, 204, or 403.

413, 414. Advanced Economic Theory. (3-0). Credit 3 each semester.

This course is based on two assumptions, namely, (1) the nature of economic theory is such that maturity of judgment is essential to its comprehension, and (2) contact with practical economic problems is highly valuable in grasping economic concepts. The advanced course in economic theory, therefore, covers the same ground as that covered in other courses in economic principles but covers it more exhaustively. The course is open only to students who have had Economics 203, 204, or its equivalent, and in addition at least one course in applied economics.

416. Public Utility Economics. (3-0). Credit 3.

П

A general survey course examining: historical development; legal and economic principles; evolution in methods and types of regulation; financial policies; labor policies; taxation and rate-making; public ownership.

Prerequisite: Economics 203, 204 or the equivalent.

FOR GRADUATES

501, 502. History of Economic Doctrines. (4-0). Credit 4 each semester.

The purpose of this course is to study in detail, beginning with the Physiocrats, the growth of the science of economics. A careful study is made of the various schools of economists and an analysis is made of such fundamental concepts as production, value, capital, interest and profits as they have appeared from time to time in the writings of the leading economists. Gide

and Rist's History of Economic Doctrines serves as a guide to these authorities.

505. Public Finance. (4-0). Credit 4.

1

An account of the evolution of financial systems; a chronological review of the discussion of the theories and principles of finance; a study of current theory and practice in public borrowing and levying, financial administration and expenditure of public revenues in the United States and the principal European countries.

506. Labor Problems. (4-0). Credit 4.

П

A historical survey of the evolution of labor movements and programs, with a critical examination of their underlying philosophies. The economic principles involved in the leading problems of trade unionism and labor.

DEPARTMENT OF ELECTRICAL ENGINEERING

Professor M. C. Hughes, Professors Bolton, Markle, Rode, Dillingham, Associate Professor Fouraker, Assistant Professor Ward, Mr. Kerns, Mr. Palmer, Mr. Haupt

201. Electricity and Magnetism. (3-6). Credit 5.

1, 11

Lectures, recitations and problems in electricity and magnetism.

A laboratory investigation of the phenomena studied in the text-book. Prerequisite: Mathematics 111, 112.

Laboratory fee, 75 cents.

202. Elementary Electrical Engineering. (2-4). Credit 3.

П

Simple electric circuits, primary and secondary batteries, battery charging, simple telephone circuits, the magnetic circuit, inductance, and capacity. A short time is devoted to the study of the National Electric Code, and of methods of wiring.

The practice includes the accurate measurement of various electrical quantities, such as resistance, inductance, capacity, and the effect of temperature and position on these quantities; a study of the various types of batteries to determine their adaptability to different uses; calibration and repair of instruments, such as ammeters, voltmeters, and watt-meters; tests of the magnetic properties of iron. Prerequisite: Electrical Engineering 201, Mathematics 104 or 112.

Laboratory fee, 75 cents.

204. Electric Wiring and Repair. (2-4). Credit 3.

H

A study of elementary electric circuits. Practice in electric wiring and the repair of simple electric appliances. Prerequisite: Physics 201.

Laboratory fee, \$1.50.

.301. Direct Currents. (3-6). Credit 5.

1, II

A study of elementary electric circuits. Practice in electric wiring and machinery.

The practice includes the operation of dynamos and motors, the determination of characteristics and the measurement and calculation of losses, efficiencies and regulation. Prerequisite: Electrical Engineering 202, Mathematics 204.

Laboratory fee, \$1.50.

302. Alternating Currents. (5-2). Credit 6.

11

The principles of alternating currents, including the relations of voltage, current, resistance, inductance and capacity. Prerequisite: Electrical Engineering 301, Mathematics 204. Must be accompanied by Electrical Engineering 304.

304. Alternating Current Laboratory. (1-4). Credit 2.

H

An experimental study of the effect of resistance, reactance, and capacity on alternating current circuits; the determination of wave shapes; and tests of some of the simpler types of alternating current machines. Prerequisite: Electrical Engineering 301, Mathematics 204. Must be accompanied by Electrical Engineering 302.

Laboratory fee, \$1.50.

305. Electrical Machinery. (3-3). Credit 4.

I, I

A study of the fundamental principles of dynamos, motors and transformers of the types commonly used in general engineering practice. The practice is designed to familiarize the general engineering student with the operation and the more important characteristics of both direct and alternating current machines. Prerequisite: Physics 204, Mathematics 204.

Laboratory fee, \$1.00.

307, 308. Electrical Machinery. (3-3). Credit 4 each semester.

The fundamental principles of direct and alternating current machinery, and the operating characteristics of electrical machinery usually installed in power plants and electrically operated industrial enterprises.

•The practice includes the operation of the principal types of electric motors, generators and transformers and the study of their operating characteristics. Prerequisite: Physics 204, Mathematics 204.

Laboratory fee, \$1.00 each semester.

310. Communication Engineering. (2-2). Credit 3.

П

The principles of electric communication engineering, including the study of telegraph circuits, repeaters, multiplex and printing telegraphy; the principles of automatic telephony.

The practice includes an experimental study of circuits and instruments covered in the course, emphasizing fundamental principles rather than mechanical details of modern practice. Prerequisite: Physics 202, or 204, or 208.

Laboratory fee, \$1.00.

401, 402. Alternating Current Machinery. (4-0). Credit 4 each semester.

A graphical and mathematical study of alternating current machinery, including generators, transformers, motors and converters. Prerequisite:

Electrical Engineering 302, or 308. Must be accompanied by Electrical Engineering 403, 404.

403, 404. Alternating Current Laboratory. (1-6). Credit 3 each semester.

A laboratory study of the characteristics of various types of alternating current machines. Prerequisite: Electrical Engineering 302 or 308; registration in Electrical Engineering 401, 402.

Laboratory fee, \$1.50 each semester.

405. Electric Transmission. (3-0). Credit 3.

- 1

Lectures and recitations on the transmission of electricity by wires. The subject is treated by the use of hyperbolic functions and covers the fundamental principles of electric transmission which are applicable to either telephone or power transmission. Prerequisite: Mathematics 305, Electrical Engineering 302.

406. Electric Distribution and Transmission. (2-2). Credit 3. 11

Lectures and recitations on the transmission and distribution of power by electrical methods, including the design and cost estimate of several transmission and distribution systems. Prerequisite: Electrical Engineering 405.

409, 410. Advanced Communication Engineering. (2-2, 3-2). Credit 3, 4.

Advanced telephone, telegraph and radio engineering, including a study of vacuum tubes and their application in radio receiving and transmitting circuits, and in carrier current telegraphy and telephony.

The laboratory study of circuits and instruments studied in the course emphasizes fundamental principles rather than the mechanical details of modern practice. Prerequisite: Electrical Engineering 310.

Laboratory fee, 75 cents each semester.

414. Radio Communication. (3-0). Credit 3.

11

A study of radio receiving and sending equipment and of vacuum tubes as applied to radio circuits and other uses. Prerequisite: Electrical Engineering 302, or 308.

416. Motor Applications. (3-0). Credit 3.

11

The determination of the proper sizes and types of motors to be applied to various industrial loads. Special emphasis is laid on the preliminary study of duty cycle and numerical calculation of starting duty and motor ratings. The study of industrial controllers. Prerequisite: Electrical Engineering 401, or 308.

426. Illumination Engineering. (2-2). Credit 3.

П

The principles of illumination; the design of lighting systems for buildings of various types. Tests of lighting units and of complete systems both for interior and exterior use. Prerequisite: Electrical Engineering 302, or 308, or 305.

Laboratory fee, 50 cents each semester.

428. Telephone Engineering. (2-2). Credit 3.

H

A study of the engineering principles used in telephone communication, including transmission problems, inductive interference, transpositions, phantom circuits, repeaters, and other modern developments in telephone engineering. Prerequisite: Electrical Engineering 405.

431. Engineering Administration. (2-0). Credit 2.

I, II

A brief study of problems of engineering administration, including the law of contracts, records to be kept in engineering construction and operation, systems of organizations required. Prerequisite: Senior classification.

432. Public Utility Problems. (3-0). Credit 3.

П

The problems of operation of public utilities with particular attention to methods of organization, the fixing of rates, and the economic features of new lines and extensions. Prerequisite: Electrical Engineering 401, 431.

436. Wiring and Lighting. (3-0). Credit 3.

H

- (a) A study of the fundamentals of interior wiring.
- (b) The principles of artificial illumination with a study of modern types of illuminants.

FOR GRADUATES

501, 502. Advanced Alternating Currents. (2-4). Credit 3 each semester.

The theory of transient phenomena; polyphase circuits; the study of transients with oscillograph.

Laboratory fee, \$2.50 each semester.

503. Electrical Machine Design. (1-4). Credit 2.

I

I'he design of electrical machines and the predetermination of their characteristics.

504. Electrical Plant Design. (2-4). Credit 3.

П

The design of power plants with special emphasis on the electrical machinery.

507, 508. Advanced Alternating Current Machinery. (2-4).

Credit 3 each semester.

A study of the complicated alternating current machines.

Laboratory fee, \$2.00 each semester.

509. Advanced Communication Engineering—Telephone. (3-3). Credit 4 1

A study of the design and operation of telephone repeater and carrier systems, filters, networks, transmission measuring devices, telephoto and printer telegraph systems; laboratory investigations to include transient and frequency characteristics of telephone lines, and transmission measurements on typical networks and lines.

Laboratory fee, \$2.00.

510. Advanced Communication Engineering—Radio. (3-3). Credit 4.

A detailed study of the design and operation of audio amplification and radio frequency systems with particular reference to radiating devices. Oscillo-

graphic studies and field strength measurements are the major laboratory investigations.

Laboratory fee, \$2.00.

512. Application of Electrical Machinery to Industrial Operations.

Credit X.4

(30).

A study of characteristics of electrical motors with special emphasis on their application to different types of loading, electrical control and the development of electrically operated drives; study of rate charges for service. 513, 514. Public Utility Administration. (3-0). Credit 3 each semester.

A study of the development of public service regulations by commission, status of public service corporations in the courts, the fixing of rate bases and analyses of methods used in determining cost of service, and other problems pertaining to Public Utility Administration.

DEPARTMENT OF ENGINEERING DRAWING

Professor A. Mitchell, Associate Professor Glenn, Mr. Dent, Mr. Spencer, Mr. Breland

111. Mechanical Drawing. (0-6). Credit 2.

I

Care and use of drawing instruments, freehand lettering, exercises in the use of drawing instruments, construction of plane and space curves, orthographic and axonometric projections, technical sketching, dimensioning drawings, principles and practice in working drawings.

124. Descriptive Geometry. (2-4). Credit 3.

1. 11

Problems relating to points, lines, planes; solids, intersections of planes and solids, intersections of solids, development of surfaces.

201, 202. Mechanical Drawing. (0-2). Credit 1 each semester.

A continuation of course 111, including elementary parts of machines and engineering structures; details and assemblages; Patent Office Drawings, tracing, blueprinting. The course is varied to meet the practical needs of students in the different engineering departments. Prerequisite: Eng. Drawing 111.

213, 214. Mechanical Drawing. (0-2). Credit 1 each semester.

Care and use of drawing instruments, freehand lettering, exercises in the use of drawing instruments, construction of plane and space curves, elements of projection, technical sketching, principles of dimensioning, topographical conventional signs, contours, earth sections, mapping.

DEPARTMENT OF ENGINEERING RESEARCH

Professor Giesecke

501, 502. Research. Credit 2 to 6.

Project subject to the approval of the head of the department.

DEPARTMENT OF ENGLISH

Professor Summey, Professors Thomas, Cofer, Spriggs, Associate Professors
Gunter, Mayo, S. S. Morgan, Assistant Professors Spahr, Key,
Abbott, Mr. Hays, Mr. Brown

103, 104. Rhetoric and Composition. (3-0). Credit 3 each semester.

Composition both oral and written, and readings from standard and current literature.

203. Composition and Literature. (2-0). Credit 2.

I

Composition oral and written; reading from standard and current literature, especially the essay and the novel. Prerequisite: English 103, 104.

210. Argumentation. (2-0). Credit 2.

H

A study of the logical and rhetorical essentials of argument, with practice in outlining, writing, and discussion; parallel readings. Prerequisite: English 203 or 231.

NOTE: For English 210, Engineering students who have made an average grade of B in courses 103, 104, and 203 may substitute English 305, 310, 316, 325 or 323. 231, 232. English Literature. (3-0). Credit 3 each semester.

A survey of English literature from Chaucer to the late nineteenth century, with parallel readings and written reports; special attention given to the main currents of English thought as reflected in the literature. Prerequisite: English 103, 104.

305. Contemporary Civilization. (2-0). Credit 2.

I

A composition and discussion course dealing with current thought and with various phases of contemporary civilization. Restricted to students whose record in English shows that they can take the course with profit. Prerequisite: English 203, 210 or 231, 232.

307. Technical Writing. (2-0). Credit 2.

I, II

The composition of reports, recommendations, and scientific articles suitable for publication, with some opportunity for oral presentation. Prerequisite: English 203 or 210.

NOTE: For English 307, Agricultural and Veterinary Medicine students may substitute course 317. Agricultural students who have made an average of B in English 103, 104 and 203 may, with the consent of the Dean of Agriculture, substitute for course 307 one of the following: English 305, 309, 310, 315, 316, 325, 328.

309. The English Language. (3-0). Credit 3.

ı

A survey of the history, vocabulary, syntax, and sounds of the English language. Prerequisite: English 231, 232, or 203, 210.

310. Phonetics and Pronunciation. (3-0). Credit 3.

11

A study of the formation of English sounds and of usage in pronunciations. Prerequisite: English 231, 232, or 203, 210.

312. Shakespeare. (3-0). Credit 3.

H

The life, environment, and major dramatic works of Shakespeare.

Prerequisite: English 231, 232, or 203, 210.

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315. English Literature of the Seventeenth Century. (2-0). Credit 2. ... I A period course in English poetry and prose of the seventeenth century, with the omission of Shakespeare.

Prerequisite: English 231, 232, or 203, 210.

316. English Literature of the Eighteenth Century. (2-0). Credit 2. II

A period course in Eighteenth Century English literature, with special attention to poetry, the essay, and the novel, and to the social and intellectual movements reflected in the literature.

Prerequisite: English 231, 232, or 203, 210.

317. Commercial Correspondence. (2-0). Credit 2.

I. II

A course in the composition of the types of business letters most useful to technical students and graduates. Prerequisite: English 203, 210.

321, 322. Nineteenth Century Literature. (3-0). Credit 3 each semester.

A study of the intellectual tendencies of the last century in England, as reflected in the poetry, essays, and novels of the period, including the work of Wordsworth, Shelley, Byron, Keats, Tennyson, Browning, Arnold, and Swinburne among the poets, Carlyle and Ruskin among the essayists, and the novels of Scott, Austen, Dickens, Thackeray, Eliot, and Hardy. Prerequisite: English 231, 232.

325. Creative Writing. (2-0). Credit 2.

I

The writing of essays, editorials, and feature articles, especially intended to aid students in their extra-curricular writing. Limited to students who have made an average of B in the prerequisite courses.

Prerequisite: English 203 or 231.

328. American Literature Since 1870. (2-0). Credit 2.

11

A study of recent American writings, chiefly prose, with attention to the intellectual and social movements reflected in the literature. Limited to students who have made an average grade of B in the prerequisite courses. Prerequisite: English 203 or 231.

401. Public Speaking. (2-0). Credit 2.

I. II

Practice in the use of the voice, in public discussion, and in the planning and delivery of speeches for special occasions; conferences with the instructor required. Prerequisite: English 203, 210, or 231, 232.

405. Public Speaking and Debate. (3-0). Credit 3.

i

A restricted course in debate for students interested in forensic work and likely to be of use as members of debate teams. Prerequisite: English 203, 210 or 231, 232.

406. Advanced Debating. (3-0). Credit 3.

11

A restricted course in debate continuing course 405 described above. Prerequisite: English 405 or 401.

413, 414. Contemporary Literature. (2-0). Credit 2 each semester..

A study of the most significant British and American novelists, poets, and

dramatists from about 1890 to the present, with lectures on the social, political, economic, and intellectual background. Among the authors studied are Bernard Shaw, Samuel Butler, John Galsworthy, Rudyard Kipling, H. G. Wells, Sinclair Lewis, Joseph Conrad, Eugene O'Neill and Edna St. Vincent Millay. Prerequisite: English 231, 232, or 203, 210.

415. Contemporary Continental Drama. (2-0). Credit 2.

I

A study of representative plays (in translation) by Ibsen, Strindberg, Hauptmann, Sudermann, Schnitzler, Maeterlinck, Rostand, Hervieu, Brieux, Benevente, and Pirandello. Prerequisite: English 231, 232, or 203, 210.

(Not offered in 1932-1933.)

416. Contemporary English Drama. (2-0). Credit 2.

11

A study of representative plays by Pinero, Jones, Wilde, Galsworthy, Shaw, Barrie, Synge, Yeats, Lady Gregory, Dunsany, and O'Neill. Prerequisite: English 231, 232, or 203, 210.

(Not offered in 1932-1933.)

431. The Novel. (3-0). Credit 3.

I

Its origin and development and its reflection of life and personality. Readings, discussion, and research in English prose fiction from the romance of the sixteenth century through the great novels of the eighteenth and nineteenth centuries. Prerequisite: English 231, 232.

432. The Essay. (3-0). Credit 3.

11

The essay in English literature: its source, development, types and function. Reading, discussion, and research in the essay from Mandeville, Montaigne, Bacon, Ben Johnson, Dekker, Cowley, Taylor, Milton, Dryden, Addison, Johnson, and Goldsmith through the great masters of the nineteenth century. Prerequisite: English 231, 232.

DEPARTMENT OF ENTOMOLOGY

Professor Bilsing, Associate Professor Little, Assistant Professor Johnston.

201. General Entomology. (2-2). Credit 3.

I, II

The systematic position of the various insects; the relation of the anatomy of insects to control measures; the life histories of the more common insects; methods of control for injurious forms.

Laboratory fee, 75 cents.

204. Insecticides and their Applications. (2-2). Credit 3.

11

The physical and insecticidal properties of arsenicals, fluorine compounds, lime sulphur, and nicotine mixtures. Preparation and application of dusts and sprays, and methods of fumigation. Dusting, spraying and fumigating machinery are used in practice.

Laboratory fee, 50 cents.

208. Animal Parasites. (2-2). Credit 3.

П

A study of insects and other arthropods which are parasitic upon domestic

ENTOMOLOGY 161

animals or which are concerned in the transmission of diseases of live stock. Methods of eradication and control. Prerequisite: Entomology 201.

Laboratory fee, 75 cents.

301, 302. Systematic Entomology. (2-4). Credit 3 each semester.

A systematic study of the various orders of insects. The student has free access to the entomological library, which contains bound volumes of standard publications on entomology; and to a considerable insect collection for identification purposes.

304. Apiculture. (2-2). Credit 3.

H

An elementary course in beekeeping open to all four-year students, and arranged so as to give adequate preparation for conducting a small apiary in connection with general farm work or for entering commercial beekeeping as a vocation. The course includes a study of the life history of the honey bee, methods of making hives and equipment, and the control of bee diseases. The department is equipped with an apiary, hives, tools, wax presses and automatic extractors.

Laboratory fee, 50 cents.

305, 306. Morphology. (1-4). Credit 2 each semester. -

The external and internal anatomy of insects; the exoskeleton, endoskeleton, mouth parts, wing veination, and other morphological characteristics of taxonomic value. The second semester is devoted to a study of internal insect anatomy.

307, 308. Apiculture. (3-2). Credit 4 each semester.

For students who wish to make a special study of beekeeping; should be followed by Entomology 408. The biology of the honey bee; working over out-of-date equipment, extracting honey and the preparation of wax; methods of wintering, swarm control, division, and the detection of bee diseases. Special attention is given to honey plants and the areas most suited to beekeeping.

Laboratory fee, 75 cents each semester.

312. Medical Entomology. (3-2). Credit 4.

H

A study of the life history, habits, and control methods of insects which are directly concerned in the transmission of human diseases such as yellow fever, malarial fever, typhus fever, bubonic plague.

Laboratory fee, 50 cents.

401, 402. Advanced Economic Entomology. (2-4). Credit 3 each semester. For students who desire a knowledge of insect life histories; the physical and chemical properties of insecticides and their effects on insects; methods of entomological research. Prerequisite: Entomology 201 or 301.

Laboratory fee, \$1.00.

405. Fruit Insects. (2-2). Credit 3.

I

The life history, habits and control of the insect pests of fruit and truck crops with special attention to control methods adapted to Texas conditions,

and to the value of parasites and orchard management in the control of insect pests.

Laboratory fee, 75 cents.

408. Apiculture (Queen Rearing). (1-4). Credit 2.

H

The theory of the various methods of queen rearing; the methods of shipping combless packages of bees; the management of apiaries.

411. Cotton Insects. (2-2). Credit 3.

I. II

A study of the insects affecting the cotton plant. Life histories, structural characteristics and classification. Dusting and spraying machinery; control by sterilization.

Laboratory fee, 75 cents.

412. Entomological Literature. (3-0). Credit 3.

11

A summary of the most important works on the classification of insects; a survey of the entomological publications of the United States Department of Agriculture, and state experiment stations.

- 416. Quarantine Measures and Inspection Methods. (3-0). Credit 3. 11

 A study of the quarantines enacted by the Federal Government and the various states to prevent the dissemination of injurious insects.
- 417, 418. Special Problems. (2-4). Credit 3 each semester.

The taxonomy, ecology, and biology of a specific family of insects; or the life history, anatomy or biology of some one insect. Prerequisite: Entomology 301, 302.

FOR GRADUATES

501, 502. Systematic Entomology. (2-4). Credit 3 each semester.

A taxonomic study of the orders, families and sub-groups of the class Hexopoda. The student is required to make a special study of some particular group.

Laboratory fee, \$2.00 each semester.

503, 504. Cotton Insects. (2-4). Credit 3 each semester.

A detailed study of the life history of the most important insects affecting cotton; survey of the literature on the subject. The use of cultural methods, dusting and sterilizing machinery and insecticides.

Laboratory fee, \$2.00 each semester.

505, 506. Advanced Apiculture. (2-4). Credit 3 each semester.

A problem in apiary management or in the study of one or more of the diseases affecting bees; grading and marketing honey, foul brood laws, and methods of eradicating bee diseases.

507, 508. Economic Entomology. (2-4). Credit 3 each semester.

A detailed study of the most important economic pests. A comparison is made of the structure of insects belonging to the same group which attack

our more important crops. Cultural methods, trap crops, insecticides, and fumigation.

Laboratory fee, \$2.00 each semester.

509, 510. Microtechnique. (2-4). Credit 3 each semester.

A study of insect tissue; methods of making microscopic slides, making sections and staining tissues.

511, 512. Research Entomology. (2-4). Credit 3 each semester.

A study of the distribution of insects and the ecological relationship to their environment. Prerequisite: Taxonomic work.

Laboratory fee, \$2.00 each semester.

DEPARTMENT OF FARM AND RANCH MANAGEMENT

Professor McMillan

301. Farm Records and Cost Analysis. (2-2). Credit 3.

Objectives of farm record keeping; desirable and useless types of farm records, taking farm inventories; property valuation; preparation of financial statements; farm inventory analysis; measures of farm profits; labor records; live stock and crop accounts; cost of production studies with intensive and extensive types of enterprises; complete farm cost system; the use of complete cost data in planning the farm business. Laboratory work is based on records of actual farms. Prerequisite: Twelve hours of credit in technical Agriculture. 401. Farm Management. (3-2). Credit 4.

The relation of farm management to agricultural and economic sciences; farming as a business; farm profits; factors limiting farm profits; types of farming; agricultural regions; farm organizations; live stock in relation to farm management; the soil factor; labor distribution; farm capital; choice of equipment; size and shape of fields; farm building and improvements; cropping systems; farm labor; getting started in farming; choosing a farm; leases and tenants; duties and responsibilities of a farm manager. Laboratory work on problems of actual farms; two or more field trips to near-by farms. Prerequisite: Twenty hours of credit in technical Agriculture.

404. Field Studies in Farm Management, (1-6), Credit 3,

Methods of analyzing the agriculture of a farming region; finding the facts as to its outstanding advantages and deficiencies; building a constructive long-time program to fit the needs of selected farms within the area. Detailed studies of the farm resources, farm organization and practice of one or more important agricultural regions of Texas. Students who take this course should be prepared to spend several consecutive days in field survey work. Prerequisite: Farm and Ranch Management 301, 401.

FOR GRADUATES

501. Farm Management Surveys. (2-4). Credit 3.

DEPARTMENT OF GENETICS

Professor Humbert, Professor Horlacher, Associate Professor Godbey

301. Genetics. (3-2). Credit 4.

1, 11

Fundamental principles of genetics; heredity; variation; Mendelism; the expression and interaction of genes; the physical basis of inheritance; the chromosome theory of inheritance; linkage; sex and its inheritance; an introduction to biometrical methods; laboratory work with Drosophila. Prerequisite: Biology 101, 102.

Laboratory fee, \$1.00.

304. Plant Breeding. (3-2). Credit 4.

П

Improvement of field, forage and horticultural crops. Prerequisite: Genetics 301.

Laboratory fee, 50 cents.

306. Animal Breeding. (2-2). Credit 3.

11

Genetics as applied to the problems of the animal breeder; reproduction; fertility; sterility; Mendelism in farm animals; quantitative characters; mutations; acquired characters; systems of breeding, such as grading, cross-breeding, inbreeding, linebreeding and outcrossing; selection. Prerequisite: Genetics 301.

Laboratory fee, 50 cents.

308. Poultry Breeding. (2-0). Credit 2.

H

Principles of genetics applied to the problems of the poultry breeder. Fecundity, plumage color, sex-linked inheritance, form. Prerequisite: Genetics 301.

403. Eugenics. (2-0). Credit 2.

I. II

Variation and heredity in human beings. The various phases of the problem of race betterment are studied from the biological point of view. Prerequisite: Genetics 301 and senior classification.

405. Survey of Eugenics. (3-0). Credit 3.

I, II

A general study of eugenics and eugenic reform, and certain genetic principles underlying human heredity.

FOR GRADUATES

501, 502. Advanced Plant Genetics. (2-4). Credit 3 each semester.

Specialized study of plant genetics. Opportunity to specialize in some commercial crop. Standard text books and current scientific literature used. 503, 504. Advanced Animal Genetics. (2-4). Credit 3 each semester.

Specialized study of animal genetics. Opportunity to specialize on some breed of farm animals, guinea pigs, pigeons or Drosophila. Standard text books and current scientific literature used.

GEOLOGY 165

505, 506. Advanced Biometry. (2-4). Credit 3 each semester.

The application of certain biometric principles to the interpretation of genetic data.

507, 508. Genetic Studies in Cotton. (2-4). Credit 3 each semester.

A detailed study of cotton genetics and breeding for students especially interested in cotton.

571, 572. Research in Cotton Breeding. Thesis.

A thesis course for students who are majoring in genetics or agronomy and who desire to become familiar with the method of commercial cotton breeding. The problem given to the student will cover, in its completion, in relation to cotton breeding, the biometrical methods; progeny analysis; germination, seedling and maturity tests procedure; stapling; ginning. Students electing this course must first be familiar with the fundamentals of genetics and agronomy. Mr. Killough.

DEPARTMENT OF GEOLOGY

Professor Lonsdale, Associate Professor Burt, Assistant Professor Stenzel, Mr. Wallace, Mr. Broughton

201. General Geology. (3-2). Credit 4.

I, II

The agents and processes which have produced the surface features of the earth, and their influence upon human affairs. The laboratory work consists of detailed study of topographic maps, minerals and rock types. Some field trips. Prerequisite: Chemistry 102.

Laboratory fee, \$1.50.

202. Historical Geology. (3-3). Credit 4.

I. II

Hypotheses of the earth's origin. Principles of stratigraphy and paleontology. The physical and organic record of the earth's history. The laboratory work consists of detailed study of geologic maps and folios. Some field trips. Prerequisite: Geology 201.

Laboratory fee, \$2.00.

205, 206. Crystallography and Mineralogy. (2-4). Credit 3 each semester.

A first course in crystallography and determinative mineralogy. Occurrence and uses of the common minerals. The laboratory work includes study of crystal models and crystals, and the determination of minerals by blowpipe methods. Prerequisite: Chemistry 102.

Laboratory fee, \$2.00 each semester.

303, 304. Petrology. (2-4). Credit 3 each semester.

Rocks, their textures, mineral composition, chemical characters, classification, occurence and origin. The laboratory work includes a study of hand specimens and microscopic study of thin sections of rocks and minerals. Prerequisite: Geology 202, 206.

Laboratory fee, \$2.00 each semester.

305, 306. Paleontology. (3-3). Credit 4 each semester.

An introductory study of the chief characteristics, successions, and environmental conditions of the animal and plant life recorded in the rocks.

The laboratory work includes field trips and the preparation and study of specimens. Prerequisite: Geology 202.

Laboratory fee, \$2.00 each semester.

307. Mineralogy and Petrology. (3-4). Credit 4.

П

A brief course in mineralogy and petrology. Description and determination of common rocks and minerals. Prerequisite: Chemistry 102.

Laboratory fee, \$2.00.

312. Structural Geology. (3-2). Credit 4.

H

The interpretation of rock structures caused by earth movements. The relation of rock structures to stratigraphic, physiographic and economic problems. Prerequisite: Geology 202.

Laboratory fee, \$2.00.

401. Geology for Engineers. (2-3). Credit 3.

I

An abbreviated study of crystallography, mineralogy, and general and historical geology. Laboratory work on minerals, and topographic and geologic maps. Open only to Seniors in Engineering.

Laboratory fee, \$1.50.

404. Geology of Petroleum. (3-3). Credit 4.

П

A detailed study of the observed factors involved in the occurrence of oil and gas. Theories as to the origin, migration and accumulation of these hydrocarbons. Detailed studies of certain productive areas. A brief consideration of future problems related to this important mineral resource.

Laboratory work on maps and other graphic methods of study of field problems. Prerequisite: Geology 312.

Laboratory fee, \$2.00.

405. Economic Geology. (3-2). Credit 4.

1

A study of the general nature of the application of geology to practical affairs. Prerequisite: Geology 202, 304.

408. Geology for Engineers. (3-3). Credit 4.

11

A course designed to acquaint the engineering student with certain fundamental features of general economic geology with emphasis on the geology of petroleum, petroleum accumulation and development. Prerequisite: Geology 401. Open only to Seniors in Engineering.

Laboratory fee, \$2.00.

415, 416. Field Methods. (1-4). Credit 2 each semester.

A theoretical and practical study of the field methods employed in geological surveying. Geological profiles, stratigraphy, tracing of key horizons, mapping, use of compass and clinometer, plane table and alidade, barometer. Field trips. Prerequisite: Civil Engineering 206, Geology 305.

Laboratory fee, \$2.00 each semester.

HISTORY 167

417, 418. Advanced General Geology. (3-2). Credit 4 each semester.

Prerequisite: Geology 304, 306, 312.

Laboratory fee, \$2.00 each semester.

FOR GRADUATES

501, 502. Advanced Mineralogy. (3-2). Credit 4 each semester.

A study of selected topics such as chemical relations, isomorphism, paragenesis, and synthesis of minerals applied to problems of petrology and mineral deposits. Mineralogic and petrologic technique.

503, 504. Advanced Petrology. (3-2). Credit 4 each semester.

Advanced petrographic-microscopic methods, microchemical reactions, petrogenesis, petrographic calculations, rock classification. Examination and description of well samples.

505, 506. Special Geology. (3-2). Credit 4 each semester.

Advanced work along specialized lines for properly qualified students, May include independent investigation of problems in various phases of geology. Primarily a thesis course.

507, 508. Ore Deposits. (3-2). Credit 4 each semester.

A study of the origin, classification, and exploitation of ore deposits. Open to properly qualified seniors.

509, 510. Advanced Field Geology. (4-0). Credit 4 each semester.

Systematic geologic surveying of selected areas. The course is designed as a field basis for thesis for advanced degrees and will be varied to meet the needs of individual students.

DEPARTMENT OF HISTORY

Professor Gammon, Professor Sugareff, Associate Professor *Fuller, Acting Associate Professor J. L. Glanville; Dean Friley

103, 104. Development of Modern Europe. (3-0). Credit 3 each semester.

A survey of the political and social development of Western Europe, 1500 to the present.

211, 212. Comparative Government. (3-0). Credit 3 each semester.

A comparative study of the governments of England, France, Germany and Switzerland in the first half of the year, followed by an introduction to the elements of international law.

213, 214. History of England. (3-0). Credit 3 each semester.

British, Saxon and Norman origins; national development; struggles between church and state; crown and nobles; nobles and commons; Agrarian and Industrial Revolutions; relations with Ireland; evolution of democracy; growth of the Empire before, during and since the World War.

215, 216. History of the United States. (3-0). Credit 3 each semester.

Discovery and colonization; colonial government, economic and social institutions; the Revolution; adoption of the Constitution; growth of nationalism; cotton and the slavery problem; war for Southern independence; recon-

^{*} On leave, 1931-32.

struction; new social and industrial problems.

305. Citizenship. (3-0). Credit 3.

I, II

The organization, functions and nature of the national government; the rights, privileges and obligations of citizenship; the immigration and naturalization law, all as closely related to the Constitution of the United States as possible, are treated first. A similar treatment is then applied to the Constitution of Texas.

311, 312. Modern and Contemporary Europe. (3-0). Credit 3 each semester. French Revolution; Napoleon; Restoration; Industrial Revolution; Revolutions of 1830 and 1848; struggle for democratic government; new nationalism; expansion and imperialism; alliances and ententes; causes and results of the World War.

313, 314. Western Europe in the Middle Ages. (3-0). Credit 3 each semester.

The development of civilization in western Europe from the end of the Roman Empire in the West to the Renaissance. The wanderings of the nations, the common free man, the nobility, feudalism, the Church, and the mental awakening are stressed as the basis of study of the period from an institutional point of view. Prerequisite: Full sophomore standing, including one course in history or government.

321, 322. Industrial History of United States. (3-0). Credit 3 each semester. The industrial growth of the United States; emphasizes agricultural changes and development, economic expansion of United States in industries and commerce, rise of labor and capital organizations, the tariff and banking. In this course the work of the second semester may be taken without that of the first semester.

423, 424. American Foreign Relations. (3-0). Credit 3 each semester.

The history of United States foreign relations and development of our leading foreign policies down to the Civil War; a study of contemporary foreign policies and relations against the background of American political and industrial expansion since the Civil War.

Open to all Seniors and to Juniors who have had one college course in history or government.

DEPARTMENT OF HORTICULTURE

Professor Kyle, Professor *Adriance, Acting Professor Ragland, Associate Professor Brison, Assistant Professor Beach

201. Plant Propagation and Orcharding. (2-2). Credit 3.

Fundamental principles and methods of plant propagation, including vegetables, fruits, and ornamentals; methods of planting and managing the home orchard. Practice: Propagation of plants from seed and bud; planning, planting, pruning, spraying, and general care of the home orchard. Prerequisite: Biology 101, 102.

Laboratory fee, 75 cents.

^{*} On leave, 1931-32.

202. Vegetable Gardening. (2-2). Credit 3.

H

Planning, planting, equipping and operating vegetable gardens, with special reference to the needs of the home; study of the individual crop with reference to its soil and climatic requirements. Practice in planning, planting and cultivating a small garden, equipping, fertilizing, spraying, harvesting, erection of hot-beds and cold frames.

Laboratory fee, 75 cents.

310. Commercial Vegetable Production. (2-2). Credit 3.

П

The production of vegetables for market. Climate, soil, equipment and storage, as affecting production and marketing in Texas and other states. Practice: The production, harvesting and marketing of vegetable crops. Prerequisite: Horticulture 202.

Laboratory fee, \$1.50.

317, 318. Principles of Fruit Production. (2-3). Credit 3 each semester.

Orchard management, including problems of location, soils, planting, cultivating, protection from insects and diseases, pruning, harvesting and marketing. Practice: Practical orchard work from planting to marketing. Prerequisite: Horticulture 201.

Laboratory fee, \$1.00.

401. Systematic Pomology. (3-2). Credit 4.

I

Fruits, their identification, classification, distribution, importance, and history; a detailed study of the more important species and varieties. Practice is given with such fruits as can be obtained during the season. Prerequisite: Horticulture 317, 318.

Laboratory fee, \$2.50.

404. Systematic Vegetable Crops. (2-2). Credit 3.

H

The history, anatomy, taxonomy, breeding, seed production, and plant improvement of vegetable crops. The practice deals with a study of the actual plants as to type, variety, technique of breeding, selection of seed, taxonomy and anatomy of the various plants. Prerequisite: Horticulture 202, 310.

Laboratory fee, \$1.00.

418. Nut Culture. (1-3). Credit 2.

H

Early history; distribution of native nuts; development of native groves to improved varieties. Practice: Budding and grafting pecans in the nursery row; top-working native pecans to improve varieties by means of budding and grafting; systematic study of the standard varieties of nuts; study of graft and bud unions. Prerequisite: Horticulture 201.

Laboratory fee, \$1.00.

420. Experimental Horticulture. (1-3). Credit 2.

П

Research methods in the planning and execution of horticultural projects. The student is expected to become familiar with all phases of his problem and to carry same to satisfactory conclusion. Project reports due the week preceding Commencement.

Laboratory fee, \$2.00.

422. Subtropical Fruits. (3-2). Credit 4.

H

H

A study of subtropical fruits, with attention to citrous fruits, figs, olives, and dates. Practice: Study of varieties of subtropical fruits and their products; propagation and care of the various subtropical fruits. Prerequisite: Horticulture 317, 318.

Laboratory fee, \$2.50.

423. Geography of Horticultural Industries. (2-0). Credit 2.

A study of horticultural sections of the United States; with emphasis on producing centers in Texas; various fruits and vegetables considered with regard to point of origin and time of movement to market. Study of competition between domestic shipping centers as well as the influence of importations. Certain horticultural commodities considered with respect to the commercial varieties of different producing sections.

425. History and Literature of Horticulture. (2-0). Credit 2.

The development of the art and science of horticulture with emphasis on American horticulture. The men who have made outstanding contributions to the development of the various horticultural enterprises receive special attention. Books and periodicals which have influenced the trend of thought and practice in horticulture are also considered. A brief summary of the development of European horticulture, followed by a study of the different eras in its development in America.

426. Commercial Propagation. (2-3). Credit 3.

Fundamental problems in propagation of horticultural plants, principally fruit trees and ornamentals. Physiological responses in rooting of stem and leaf cutting, including artificial treatments to stimulate rooting; morphology and physiology of graft unions; congeniality between stocks and scions; and adaptation of stocks to their environment. Commercial nursery practice, including methods of budding and grafting, and care of nursery stock after propagation. Commercial production of bulbs for planting will also be considered.

Practice in laboratory, greenhouse, and the College orchards Laboratory fee, \$1.00.

FOR GRADUATES

501, 502. Advanced Fruit Growing. (2-4). Credit 3 each semester.

Problems of cultivation, fertilization, pruning, thinning of fruit and protection from frost and insect pests and diseases; the improvement of fruit by means of bud selection and breeding.

Prerequisite: Horticulture 317, 318, or equivalent work.

503, 504. Advanced Vegetable Gardening. (2-4). Credit 3 each semester.

Recent developments in the production of vegetables for market and

truck gardening purposes; irrigation; forcing plants for early market, and the development of plants by breeding and selection. Prerequisite: Horticulture 310, 404, 420, or equivalent work.

507, 508. Horticultural Problems. (1-6). Credit 3 each semester.

Various problems concerning recent developments in horticulture are, considered, both in theory and in laboratory. Recent work at other stations is reviewed.

DEPARTMENT OF INDUSTRIAL EDUCATION

Professor E. L. Williams, Associate Professor Fern

NOTE: The following courses are offered in residence during the Summer Session only: 102, 202, 203, 301, 310, 320, 322, 420, and 422.

102. Theory and Principles of Vocational Education. (2-0). Credit 2. S

A brief history of the principles of education leading up to the needs of vocational education. A review of Federal and State Laws pertaining to schools. The relation of general education and industrial arts to vocational education.

104. Design and Construction in Woodwork. (0-3). Credit 1. II Selection, designing and detailing of projects suitable for public school industrial arts classes and the drawing of projects to be made in Mechanical Engineering 105, 106.

202. Iob Analysis. (2-0). Credit 2.

S

Several jobs of the various trades will be analyzed, listing all the necessary tools, operations and related information connected with each job.

203. Trade Analysis. (2-0). Credit 2.

S

The student must know a trade; it will be divided into its several parts as: units, operations, jobs, sciences and mathematical content. The material will then be organized into teachable form.

Prerequisite: At least two years of trade experience.

204. Development and Practice in Industrial Education. (3-0). Credit 3. II

The history and development of industrial education; present practices in the junior and senior high school and in the vocational school.

301. Methods of Teaching and Class Management. (2-0). Credit 2. S
Organization of equipment and economical ways of securing materials as
teaching aids, planning of daily programs; discipline and individual adjustment; grading, records and reports.

301a. Methods of Teaching and Class Management. (3-0). Credit 3. A modification of course 301 for Industrial Arts Education students.

308. A Study of Modern Industries. (3-0). Credit 3.

The political, historical and geographical factors which have a direct influence upon the development and distribution of industries. Specific studies

of individual industries are made, such as: iron and steel, paper, automobiles, petroleum, cement, leather, textiles. Essential features of these industries are considered: location, machinery, power, raw materials, market, labor.

310. Course Making. (2-0). Credit 2.

S

Methods of outlining courses of study to meet the needs of the different types of classes. Each student will make a complete course for some particular subject.

310a. Course Making. (3-0). Credit 3.

H

A modification of course 310 for Industrial Arts Education students.

312. Psychology Applied to Industry. (3-0). Credit 3.

П

The relation of the worker's nervous system to his mind, the cultivation of right habits in workers; instincts, imitation, memory, and imagination; interest factors and power of suggestion as aids in increasing the quantity and quality of production; "association of ideas" as an aid in giving orders; development of initiative, reasoning and judgment in workers; psychology as an aid in reducing turnover.

314. Observation and Criticism. (1-2). Credit 1.

Observations in the various factors of industrial teaching as equipment, safety, records, discipline, methods of instruction and the handling of stock. 320. Aims and Objectives of Part-Time Schools. (2-0). Credit 2.

Part-time laws; organization and administration of classes to meet the needs of junior workers; trade preparatory, trade extension and general continuation classes under compulsory and elective systems.

322. Occupational Analysis and Organization of Industrial Material. (2-0). Credit 2.

S

Analysis of occupations and organization of the teachable content.

323, 324. Methods of Teaching Mechanical and Machine Drawing.

(1-3). Credit 2 each semester.

The student should have completed courses equivalent to Engineering Drawing 111, 124, 201, 202 before attempting this work. First semester: organizing problems, instructional material; making teaching plans in preparation for the teaching of high school drawing. Second semester: same procedure as first; problems applying directly to machine drawing as taught in the last two years of high school. 'Either semester may be taken separately.

325. Equipment and Supplies. (3-0). Credit 3.

I

A study of equipment and supplies for Industrial Arts Departments; selecting; specifying; ordering; installing; inventories.

406. Vocational Guidance. (2-0). Credit 2.

H

I

A survey of the recent development of educational and vocational guidance within and outside of the schools.

19. Methods of Introducing Industrial Organization and Management into Industrial Schools. (2-0). Credit 2.

A study of the history and development of industrial organization and management up to the present; most efficient methods; how these systems can best be adapted in industrial schools to make them more practical.

411. Lesson Planning. (2-0). Credit 2.

1

The lesson, its purpose and aim; steps in lesson presentation; testing the effectiveness of instruction.

415, 416. Practice Teaching. (1-5). Credit 3 each semester.

Arrangements will be made for the student to do practice teaching in the Bryan High School Manual Training Department, The A. and M. College Consolidated School, and in some of the departments of the College.

418. General Shop Methods. (1-5). Credit 3.

ΙĒ

The student will organize material for general shop units and will practice those problems and projects which meet the requirements of the public school shop teacher.

420. Follow-Up, Visitation, and Coordination in Part-Time Schools.

(2-0). Credit 2.

S

Coordination between instruction given to the junior employee and the job, and the procedure in follow-up and promotional advancement.

422. Social, Economic and Educational Influences Affecting the

Junior Worker. (2-0). Credit 2.

S

A study of the supply and demand of workers in various occupations; pay and opportunities for advancement and their relation to society as a whole.

FOR GRADUATES

500. A Practical Study of the Relation of Industry to Education. (5-0). Credit 5.

S

I

This course is to be conducted during the summer only and as a tour of inspection and research. Advance arrangements will be made in the various cities with the directors of industrial education. The group will visit industrial schools, industries, and teacher-training institutions. Lectures will be given by men in each phase of work. Seminars will be held whenever possible en route. A final report will be required.

505. Philosophy of Industrial Education. (4-0). Credit 4.

The social, economic, and political necessities back of the movement for industrial education; the relation of industrial education to general education; types of courses to meet the demands of the community; the relations of industrial education to capital, labor, Americanization, and world competition in industry.

507. Organization of Industrial Education. (4-0). Credit 4.

Problems in making surveys, planning industrial departments for public schools, and setting the proper organization.

508. Administration and Supervision in Industrial Education. (4-0). Credit 4.

Problems of the local director or supervisor of departments of industrial education.

509, 510. Methods of Teaching High School Drawing. (2-4). Credit 3 each semester.

A survey of the field of drawing. The designing and organizing of problems and teaching devices. The first semester is devoted to general mechanical drawing as taught in the first two years of high school; the second semester to machine drawing. Either semester may be taken separately.

511. Industrial Education Problems. (4-0). Credit 4.

A study of current problems in Industrial Education. Research and organization of material to assist in the solving of individual problems.

512. Methods of Training Employees in Commerce and Industry.

(3-0). Credit 3.

H

A study of the various methods used by commercial and industrial concerns to train workers for their respective needs. The aim of this course is to help teachers and supervisors analyze the training needs of local businesses; and organize courses for the preparation and improvement of their employees.

514. Guidance Seminar. (2-0). Credit 2.

The organization of occupational information; educational and vocational guidance: counseling case problems. Prerequisite: I. E. 406 or a similar course.

EXTENSION COURSES

Under the Federal Vocational Education Act, the College offers extension courses in Industrial Education in centers where a sufficient number of persons are interested in one subject to make such an arrangement possible. The time devoted to each course is thirty clock hours. The fee is \$5.00 per credit hour.

These extension courses are planned to meet the requirements of the State Board

for Vocational Education for certification of teachers of all types of trades and industrial work. Students taking these courses must meet the qualifications set up by the State Board for Vocational Education.

A student completing satisfactorily any of these courses will be given College credit if he should later register as a resident student. Extension courses are offered at the present time in Galveston and Houston. Applications from other centers will be considered.

The list of extension courses now includes the following:

FOR SHOP AND RELATED SUBJECTS TEACHERS

Theory and Principles of Vocational Education. 102. 202.

Job Analysis. Trade Analysis. 203

Methods of Teaching and Class Management. Course Making. 301.

310.

Observation and Criticism. Vocational Guidance. 314.

406.

Lesson Planning and Practice Teaching. 411.

FOR PART-TIME GENERAL EDUCATION TEACHERS

301. Methods of Teaching and Class Management.

314. Observation and Criticism.

320.

322. 411.

420.

Observation and Criticism.

Aims and Objectives of Part-Time Schools.
Occupational Analysis and Organization of Instructional Material.
Lesson Planning and Practice Teaching.
Follow-up, Visitation, and Coordination in Part-Time Schools.
Social, Economic and Educational Influences Affecting the Junior Worker.

DEPARTMENT OF LANDSCAPE ART

Professor Hensel, Professor McGinnis

202. Ornamentals, (2-2). Credit 3.

H

A study of the indigenous and exotic trees, shrubs and vines of landscape value found growing in this section. Prerequisite: Horticulture 201.

Laboratory fee, \$1.00.

301. Introduction to Landscape Art. (2-4). Credit 3.

I

Open only to students specializing in Landscape Art or Architecture. Designing of the simpler landscape problems, including the making of plans, elevations, cross-sections, and planting plans. Prerequisite: Landscape Art 202, Arch. 205, 206.

301a. Elementary Landscape Design. (2-4). Credit 3.

The planning of small gardens, home grounds and the commoner public and semi-public properties. For students not intending to specialize in Landscape Art, who desire sufficient knowledge of the subject to enable them to plan the simpler out-door areas.

302. History of Landscape Art. (2-0). Credit 2.

The development of gardening; Egyptian, Western Asiatic, Greek, Italian, French, English, and American.

304. Landscape Design. (0-8). Credit 3.

Plans of arrangement, sketch plans, planting plans; landscape construction work; tree repair. Prerequisite: Horticulture 208, Landscape Art 301. 314. Floriculture. (2-2). Credit 3. H

Culture and use of the annuals, perennials, and bulbous plants especially adapted to our climatic conditions. Prerequisite: Horticulture 201. 4 4 100 401, 402. Advanced Landscape Art. (3-8). Credit 6 each semester.

The development of large areas, private estates, parks, subdivisions, cemeteries, and other private, semi-private, and public properties. problems; landscape construction; detailed plans; professional practice. Prerequisite: Landscape Art 301, 304.

FOR GRADUATES

505, 506. Landscape Design. (2-12). Credit 6 each semester. Advanced landscape problems; research consultations; criticism.

DEPARTMENT OF MARKETING AND FINANCE

Professor Lee, Assistant Professor R. L. Hunt

301. Advertising. (3-0). Credit 3.

Place of advertising in business and agriculture; advertising media, such as the newspaper, trade paper, magazine, direct mail, poster, and the radio: description of the various methods of advertising; development of copy and layout of advertisements; consumer habits and psychology; methods of investigation for advertising campaigns; cost of advertising; legal and ethical problems involved in advertising; consideration of advertising from the standpoint of consumers. Prerequisite: Economics 203 and 204, or 403.

302. Marketing. (3-0). Credit 3.

I, II

The services performed in marketing agricultural products, such as grading, standardizing, packing, transportation, storage, financing, and risk-taking; marketing methods; marketing agencies; analysis of the operations of produce exchanges; price making; future trading; demand creation; adapting production to market conditions; government authority in relation to marketing. Prerequisite: Economics 204, or 403, or Agricultural Economics 312.

304. The Credit System. (3-0). Credit 3.

I

The origin, forms, and sources of credit and the part credit plays in business. Historical development of the use of credit; the place of credit in modern business; the theory of credit; analysis of fallacies regarding the origin and supply of credit; sources and distribution of credit; development of instalment credit used in the purchase of automobiles, radios, and other merchandise; automobile and other finance companies handling instalment credit; development of merchant credit accounts and the advantages and disadvantages of such credit in merchandising; factors determining the cost of credit; government regulation of credit. Prerequisite: Economics 311.

401. Cooperative Marketing of Farm Products. (3-0). Credit 3.

A study of farmers' cooperative selling organizations. Historical background of modern cooperation; economic philosophy of cooperation; prerequisites to organization; systems of organization; fundamental principles; types of cooperatives; legal basis of agricultural cooperation; problems of pooling, contracts, financing, management, advertising and surplus control; analysis of suspensions and failures; national policies with respect to the cooperative movement. Prerequisite: Marketing and Finance 302. or Agricultural Economics 312.

402. Agricultural Finance. (3-0). Credit 3.

11

Analysis of credit requirements of farmers; investors and depositors as sources of credit; description of financial institutions which serve agriculture, such as farm mortgage companies, insurance companies, federal and joint stock land banks, intermediate credit banks, live stock loan companies, national and state banks, and the federal reserve banks; principles upon which credit is extended; credit forms; the cost of credit. Prerequisite: Economics 203. 204. or Economics 403.

403. Cotton Marketing. (3-0). Credit 3.

I

Historical survey of the development of cotton marketing problems; the functions performed in marketing cotton; description of the local, central and spinners' markets; the economic functions of cotton exchanges; future trading and speculation and their relation to the price of cotton; the evolution of

cotton standardization; the origin and operation of cotton cooperative marketing associations. Prerequisite: Marketing and Finance 302.

404. Transportation. (3-0). Credit 3.

H

An economic interpretation of the function and importance of transportation as related to agriculture. The four great agencies of rail, water, motor, and air, both as separate agencies and as parts of a coordinated system. Regulation through the Interstate Commerce Commission and other governmental bodies; rates affecting the movement of agricultural products. 405. Wholesale and Retail Merchandising. (3-0). Credit 3.

A study of the wholesale and retail merchandising of goods bought by farmers; different types of stores serving farmers; retail store costs, margins, and prices; causes of the development of the chain store and the mail order house; services of these stores to the agricultural community. Factors determining the size of the trade territory of agricultural towns; distribution of purchases between the small town and the larger center. Prerequisite: Economics 203, 204, or 403.

406. Market Analysis. (3-0). Credit 3.

H

Methods used by business concerns in the analysis of selling, advertising, and merchandising problems; market surveys, with emphasis upon the necessity of thorough fact finding as a basis for sales budget plans; measurement of the profitableness of different types and sizes of operating units; determination of effectiveness of advertising and selling effort; problems and methods of demand creation; choosing channels of distribution; importance of market measurement in the determination of company policies. Prerequisite: Marketing and Finance 405.

408. Sales Organization. (3-0). Credit 3.

П

Principles underlying successful salesmanship; types of customers and types of goods in relation to salesmanship. Buying motives and methods of demand creation; analysis of problems confronting the sales manager, such as the sales organization, selection and training of salesmen, compensation plans, contacts wth salesmen, sales campaigns and selling costs. Prerequisite: Economics 203 and 204, or 403.

FOR GRADUATES

501, 502. Advanced Marketing Problems. (2-4). Credit 3 each semester.

Price making; economics of future trading; adjustment of production to the market; the collection and dissemination of demand and supply information; the margin between local and central market prices; costs of marketing; individual versus cooperative method of price making and marketing. Prerequisite: Agricultural Economics 312 and Marketing and Finance 302.

504. Cotton Marketing Problems. (2-4). Credit 3.

The potential supply of cotton; potential demand for cotton; price making in local, central, and spinners' markets; relation of spot and futures

prices; problems of estimating current demand and supply; the economics of cotton standardization; analysis of the Cotton Futures Act; cooperative versus individual sale of cotton. Prerequisite: Marketing and Finance 302.

DEPARTMENT OF MATHEMATICS

Professor Puryear, Professors Porter, J. W. Mitchell, Halperin, D. C. Jones, Associate Professors Martin, Edmonson, Assistant Professor *Binney, T. R. Nelson, Mr. Blumberg, Mr. Ross, Mr. McGee, Mr. Chaney,

Mr. Hall, Mr. Camp, Mr. Finlay

101a. Algebra. (6-0). Credit 3.

A review of certain topics in elementary algebra. Special attention is given to quadratic equations and the binomial theorem. This course, which is equivalent to Mathematics 101, is required of those students who are unable to carry the regular work in freshman mathematics.

101, 102. Algebra. (3-0). Credit 3 each semester.

A rapid review of elementary topics, followed by the study of quadratic equations, the binomial theorem, variation, the progressions, complex numbers; elementary theory of equations, logarithms, limits, undetermined coefficients.

103. Plane Trigonometry. (3-0). Credit 3.

I, II

Measurement of angles, review of logarithms, solution of right triangles, problems of heights and distances, properties of triangles, solution of oblique triangles, geometrical applications.

104. Analytics. (3-0). Credit 3.

The straight line, transformation of co-ordinates, circle, ellipse, parabola, hyperbola, graphs of trigonometric, logarithmic and exponential functions. Review of certain topics of preceding courses. Prerequisite: Mathematics 101, 103. or 111.

111, 112. Mathematical Analysis. (6-0). Credit 6 each semester.

The essentials of college algebra, plane trigonometry, and analytic geometry, designed to meet the needs of engineering students.

203, 204. Calculus. (5-0). Credit 5 each semester.

Differentiation, limits, infinitesimals, integration, maxima and minima, areas, volumes, water pressure, work, introduction to solid geometry, moment of inertia, center of gravity, radius of curvature, Taylor's theorem, elementary examples of differential equations. Reviews of certain topics of preceding courses. Prerequisite: Mathematics 104 or 112.

207, 208. Mathematical Theory of Investment. (3-0). Credit 3 each semester. Review of progressions, limits, series, logarithms; graphs; annuities, amortization, bonds, sinking funds and depreciation, probability, iife insurance. Prerequisite: Mathematics 102 or 111.

^{*} On leave, 1931-32.

305. Differential Equations. (2-0). Credit 2.

Definitions and preliminary notions; change of variables; ordinary differential equations; linear differential equations of the first order; linear differential equations of higher order with constant coefficients; exact linear differential equations. Particular forms of equations; total differential equations in more than two variables; systems of differential equations with two dependent variables; partial differential equations. Prerequisite: Mathematics 204.

FOR GRADUATES

503. Theory of Equations. (3-0). Credit 3.	I
504. Solid Analytic Geometry. (3-0). Credit 3.	П
505. Vector Analysis. (3-0). Credit 3.	I
506. Theory of Probability. (3-0). Credit 3.	П
507, 508. Theory of Functions of a Real Variable. (3-0). Credit 3 each semester.	
509, 510. Advanced Calculus. (3-0). Credit 3 each semester.	
511. Ordinary Differential Equations. (3-0). Credit 3.	I
512. Partial Differential Equations. (3-0). Credit 3.	H
513, 514. Differential Geometry. (3-0). Credit 3 each semester.	
515, 516. Advanced Algebra. (3-0). Credit 3 each semester.	
517, 518. Theory of Functions of a Complex Variable. (3-0). Credit	
3 each semester.	
519. Elliptic Integrals. (3-0). Credit 3.	I

DEPARTMENT OF MECHANICAL ENGINEERING

Professor Crawford, Professors Brewer, Faires, Assistant Professors Long, Kile, Mr. Downard, Mr. McCarter, Mr. Fleming, Mr. Wingren, Mr. Cheatham, Mr. Trail, Mr. Truettner

101, 102. Engineering Problems. (1-2). Credit 1 each semester.

Use of the slide rule; solution of problems involving engineering data; problems involving trigonometry; elementary statics; work, power, and energy. 105. Bench Work in Wood. (1-6). Credit 3.

Designing and making layout of simple bench projects to be made by hand tools, wood turning, glueing, finishing; grinding and care of tools. Laboratory fee, \$2.00.

106. Cabinet Making. (1-6). Credit 3.

Design, rod making, construction, and finishing of cabinets, study of lumber, its manufacture, seasoning; glues, varnishes, and other finishing materials, mill work, the preparation of cutting tickets, the care of power wood-working machinery; production methods. Prerequisite: Mechanical Engineering 105 or the equivalent.

Laboratory fee, \$2.00.

201. Pattern Making and Foundry Work. (0-3). Credit 1.

Simple pattern layouts and construction of patterns; pattern storage; costs and weights of patterns and castings; the patternmaking industry. Cupolas, gas fired furnaces, moulding sands, core making, foundry layouts, and practice in moulding and casting both ferrous and non-ferrous metals. (See note after course 214).

Laboratory fee, \$2.00.

202. Pattern Making and Foundry Work. (0-3). Credit 1.

A continuation of course 201, including advanced methods of pattern making and production.

Laboratory fee, \$2.00.

212. Engineering Mechanics. (3-0). Credit 3.

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П

A study of forces and force systems, equilibrium, frame structures, center of gravity, and moment of inertia. Must be preceded or accompained by Mathematics 204.

214. Machine Shop Practice. (0-3). Credit 1.

I, II

A modification of course 309, 310.

Laboratory fee, \$1.50.

NOTE: For sophomore electrical engineering students, courses 201 and 214 constitute a year's work in the shops. These students will be divided into two groups at the beginning of the first semester. One group will begin with course 201, the other with course 214. At the beginning of the second semester the groups will each change to the other work.

303, 304. Machine Design. (2-3). Credit 3 each semester.

A study of the theory and practice of machine design applied to machine elements and complete machines. Prerequisite: Mechanica¹ Engineering 307, 313 and Civil Engineering 305.

307. Kinematics. (2-3). Credit 3.

I

Motions, velocities, velocity ratio and accelerations and their effects on machines: the transmission of motions by linkage, cams, belts, and gears. Prerequisite: Physics 203.

309. Machine Shop. (0-3). Credit 1.

- 1

Practice in bench and machine tool work in metals. This includes chipping, scraping, filing, babbiting, pipe fitting, drilling, turning, boring, grinding, milling machine work.

Laboratory fee, \$1.50.

310. Machine Shop. (0-3). Credit 1.

П

A continuation of course 309 including also tool making and heat treatment of steel; application of factory production methods.

Laboratory fee, \$1.50.

313. Engineering Mechanics. (3-0). Credit 3.

I

A continuation of course 212, including also dynamics of rotation, work, energy, friction, impact.

317, 318. Engineering Mechanics. (3-0, 2-0). Credit 3, 2.

A modification of course 212, 313, with the same prerequisites and text.

320. Thermodynamics. (5-0). Credit 5.

П

A study of the laws of thermodynamics as they are applied to the behavior of liquids, vapors and gases. Emphasis is placed on the application of these laws to steam turbines, steam engines, refrigeration machines, internal combustion engines, air compressors, boilers, and condensers. Prerequisite: Mathematics 204, Physics 204.

323. Thermodynamics. (4-0). Credit 4.

1

A modification of course 320, with the same prerequisites, especially arranged for Electrical Engineering students.

324. Steam and Gas Power. (3-0). Credit 3.

H

The use of steam tables; theory of operation of steam engines, steam turbines, internal combustion engines, boilers and auxiliaries; computations involving heat balances, and efficiencies of power generating equipment. Prerequisite: Physics 204, Mathematics 204.

329. Advanced Cabinet Making. (1-6). Credit 3.

Advanced cabinet making, design, finishing, estimating, detailing, rod making, and one research problem on one of the above subjects, or any subject that deals with cabinet making and design as applied to a school shop. Prerequisite: Teaching experience in Cabinet Making, and courses equivalent to M. E. 105 and 106.

Laboratory fee \$2.50.

335. Heating and Ventilating. (3-0). Credit 3.

1

The fundamental principles of the various systems of heating, ventilating, and air conditioning, with working methods of design.

403, 404. Engineering Laboratory. (1-3). Credit 2 each semester.

Testing gauges, indicators, fans, pumps, boilers, engines; a study of the actual mechanical operation of various machines. The student is expected to make calculations and written reports on the investigations and the results obtained. Prerequisite: Mechanical Engineering 320 or 323.

Laboratory fee, \$1.00 each semester.

407. Mechanical Refrigeration. (3-0). Credit 3.

ī

The application of the principles of thermodynamics to mechanical refrigeration. Kinds of equipment and methods of practical production of refrigeration, ice making and cold storage. Prerequisite: Mechanical Engineering 320 or 323.

410. Internal Combustion Engines. (3-0). Credit 3.

H

The application of the principles of thermodynamics to the design and

operation of the internal combustion engine. Prerequisite: Mechanical Engineering 320 or 323.

417, 418. Power Engineering. (3-0). Credit 3 each semester.

Application of fundamental principles to the operation and testing of all types of power plant equipment. The selection and arrangement of such equipment from the standpoint of economics. Prerequisite: Mechanical Engineering 320.

419, 420. Industrial Engineering. (3-0). Credit 3 each semester.

Principles of management as applied in modern industry; location and layout of factories, control of production, systems of wage payment, cost keeping, human relations. Prerequisite: Senior classification.

423. Industrial Administration. (3-0). Credit 3.

Problems involving material control, stores accounts, business statistics and investments. Prerequisite: Senior classification in Mechanical Engineering; must be accompanied by Mechanical Engineering 419.

428. Aerodynamics. (3-0). Credit 3.

П

I

The fundamental principles of airplane design and construction. Recent articles on current practice; research problems. Prerequisite: Mechanical Engineering 313.

430. Production Engineering. (2-2). Credit 3.

H

A study of the management and shop methods used in plants and factories whose output is largely the product of machine tools and similar equipment. Prerequisite: Mechanical Engineering 419; to be accompanied by Mechanical Engineering 420.

431. Industrial Engineering Problems. (0-2). Credit 1.

I

Sketches and drawings of plant layouts for selected problems; reports, materials and production scheduling. Must be preceded or accompanied by Mechanical Engineering 419.

434. Airplane Design. (1-6). Credit 3.

H

Force, stress, and performance analysis of the complete airplane. Prerequisite: Mechanical Engineering 428.

FOR GRADUATES

503, 504. Power Plants. (2-6). Credit 4 each semester.

The design of central and isolated power plants with special attention to overall economic operation.

507, 508. Experimental Engineering Research. (1-8). Credit 4 each semester. Methods and practice in Mechanical Engineering research, taking up extended problems specially chosen to meet the needs of the individual student.

511, 512. Airplane Design. (1-6). Credit 3 each semester. Advanced design and performance analysis.

513. Kinematics and Dynamics of Machines. (4-0). Credit 4. I
Velocities and accelerations, with particular emphasis upon balancing and

vibrations.
515. Adr. Lung. Sher mody namics (4-0)

DEPARTMENT OF MILITARY SCIENCE AND TACTICS

Professor: Colonel C. J. Nelson, Professors: Major S. R. Hopkins, Major B. F. Delamater, Major W. C. Washington, Major John P. Wheeler, Capt.

Lewis A. Pick, First Lieut. Paul L. Neal. Assistant Professors: Major

I. G. Walker, Capt. H. B. Gibson, Capt. T. C. Harry, Capt. C.

S. Richards, Capt. E. L. Lyons, First Lieut. J. V. Carroll, First Lieut. L. R. Nachman, First Lieut. E. T. Mc-Cullough, First Lieut. J. S. Seybold, and First Lieut. J. E. Reierson.

INFANTRY UNIT

Professor B. F. Delamater, Jr., Major, Infantry. Assistant Professor E. L. Lyons, Captain, Infantry. Assistant Professor L. R. Nachman, First Lieut., Infantry. Assistant Professor E. T. McCullough, First Lieut., Infantry.

- 101, 102. (1-2). Credit 1 each semester.
- (a) Theoretical: National Defense Act, Military Courtesy and Discipline, Infantry drill, hygiene, sanitation, rifle marksmanship, scouting and patrolling.
- (b) Practical: Infantry drill, physical training, preliminary target practice, gallery practice, and ceremonies.
- 201, 202. (1-2). Credit 1 each semester.
- (a) Theoretical: Musketry, automatic rifle, scouting and patrolling, interior guard duty, and combat principles.
- (b) Practical: Command and leadership as corporals, musketry, automatic rifle, scouting and patrolling.

Prerequisite: M. S. 101, 102.

- 301, 302. (3-2). Credit 3 each semester.
- (a) Theoretical: Machine guns, topography, Howitzer Company weapons, combat principles.
- (b) Practical: Command and leadership as sergeants, machine gunnery, topography, and Howitzer Company weapons.

Prerequisite: M. S. 201, 202.

- 401, 402. (3-2). Credit 3 each semester.
- (a) Theoretical: Combat principles, military history, administration, military law, rules for land warfare, and field engineering.
- (b) Practical: Command and leadership as officers, combat principles, and field engineering.

Prerequisite: M. S. 301, 302.

FIFLD ARTILLERY UNIT

Professor S. R. Hopkins, Major, Field Artillery.

Assistant Professor T. C. Harry, Captain, Field Artillery.

Assistant Professor C. S. Richards, Captain, Field Artillery.

Assistant Professor J. V. Carroll, First Lieut., Field Artillery.

103, 104. (1-2). Credit 1 each semester.

- (a) Theoretical: Military courtesy and discipline, military hygiene, first aid and sanitation, organization and administration, Field Artillery drill regulations, Field Artillery material and gunners instructions, and elements of Field Artillery gunnery.
- (b) Practical: School of the soldier, squad and battery (dismounted), standing gun drill, manual of the pistol, use and care of individual equipment, gunners examination, and ceremonies.
- 203, 204. (1-2). Credit 1 each semester.
- (a). Theoretical: Topography and orientation, stable management, Artillery communication, equitation and horsemanship.
- (b) Practical: Draft, the battery mounted, orientation, wire maintenance, care of animals, and adjustment of harness.

Prerequisite: M. S. 103, 104.

- 303, 304. (3-2). Credit 3 each semester.
- (a) Theoretical: Administration, equitation, field fortifications, liaison, advanced gunnery, fire control, and observation of fire.
- (b) Practical: Use of fire control instruments, pistol markmanship, conduct and observation of fire, terrain board, reconnaissance, and mounted drill. Prerequisite: M. S. 203, 204.
- 403, 404. (3-2). Credit 3 each semester.
- (a) Theoretical: Organization and tactical employment of Field Artillery, advanced equitation, military history and policy of the United States, military law, and Officers' Reserve Corps Regulations.
 - (b) Practical: Duty as battery officers and instructors.

Prerequisite: M. S. 303, 304.

SIGNAL CORPS UNIT

Professor Paul L. Neal, First Lieut., Signal Corps.

105, 106. (1-2). Credit 1 each semester.

- (a) Theoretical: Military courtesy and discipline, Infantry drill regulations, organization and administration of a company, military hygiene and first aid, code practice, telegraphy, military telephones, military switchboards, and automatic pistol.
 - (b) Practical: Infantry drill, tent pitching and a display of equipment,

basic signal communication, instruction as field linesmen, and communication installations.

Prerequisite: Enrollment in Electrical Engineering.

205, 206. (1-2) Credit 1 each semester.

- (a). Theoretical: Tactical radio procedure, function of various arms, army organization, radio sets, and wavemeters.
- (b) Practical: Infantry drill, tent pitching and display of equipment, guard duty, switchboard operation, telephone and test station operation, working in communication nets.

Prerequisite: M. S. 105, 106, and continued enrollment in Electrical Engineering.

- 305, 306. (3-2, 0-2). Credit 3, 1.
- (a) Theoretical: Message center, codes and ciphers, cryptanalysis, signal plans and orders, map reading and sketching.
- (b) Practical: Infantry drill, leadership and command, message center operations, operations of radio sets in communication nets, radio operator, military sketching.

In addition to the above the student must complete E. E. 309, 310. Prerequisite: M. S. 205, 206, and continued enrollment in Electrical Engineering.

- 405, 406. (0-2, 3-2). Credit 1, 3.
- (a) Theoretical: Staff organization and duties, company paper work, management and interior economy of company, organization of various arms and their functions, signal organizations, general principles of signal communication for all arms, use and limitations of various signal agencies, combat orders, tactics and technique of Infantry and Signal Corps, military history.
- (b) Practical: Infantry drill, leadership and command, handling of message centers, radio nets, wire nets and combined problems.

In addition to the above the student must complete E. E. 409, 410.

Prerequisite: M. S. 305, 306, and continued enrollment in Electrical Engineering.

CAVALRY UNIT

Professor John P. Wheeler, Major, Cavalry. Assistant Professor I. G. Walker, Major, Cavalry. Assistant Professor H. B. Gibson, Captain, Cavalry.

- 107, 108. (1-2). Credit 1 each semester.
- (a) Theoretical: Military courtesy and discipline, National Defense Act and R. O. T. C. Regulations, Cavalry drill to include the rifle platoon, elementary equitation and care of the horse, military hygiene and first aid, and scouting and patrolling.
- (b) Practical: Cavalry drill (mounted and dismounted), rifle marksmanship, scouting and patrolling.

- 207, 208. (1-2). Credit 1 each semester.
- (a) Theoretical: Equitation, musketry, conduct of fire, employment of Cavalry to include the squad.
- (b) Practical: Cavalry drill (mounted and dismounted), to include the rifle troop, the Cavalry saber, machine rifle, and pistol, employment of Cavalry (mounted and dismounted) to include the leadership of the squad.

Prerequisite: M. S. 107, 108.

- 307, 308. (3-2). Credit 3 each semester.
- (a) Theoretical: Cavalry drill, ceremonies and inspection, pistol marksmanship, employment of Cavalry (minor tactics), selection and care of animals, military sketching, machine gunnery, equitation.
- (b) Practical: Cavalry drill (mounted and dismounted), command and leadership as sergeants, pistol marksmanship, use of the Cavalry saber, map reading, and mechanics of the machine gun.

Prerequisite: M. S. 207, 208.

- 407, 408. (3-2). Credit 3 each semester.
- (a) Theoretical: Military law and Officers' Reserve Corps Regulations, military history and policy of the United States, administration, field engineering, Cavalry drill to include the troop, employment of cavalry (minor tactics), command and leadership as officers, and equitation.
- (b) Practical: Employment of Cavalry (terrain exercises), Cavalry drill to include the troop.

Prerequisite: M. S. 307, 308.

ENGINEER UNIT

Professor Lewis A. Pick, Captain, Corps of Engineers. Assistant Professor J. S. Seybold, First Lieut., Corps of Engineers.

- 111, 112. (1-2). Credit 1 each semester.
- (a) Theoretical: National Defense Act and R. O. T. C. Regulations, military courtesy and discipline, military hygiene and first aid, Infantry drill and command, rifle marksmanship, Infantry weapons, scouting and patrolling, military bridges (fixed and floating).
- b) Practical: Military courtesy, Infantry drill (close and extended order), first aid, rifle marksmanship, knots. lashings, and block and tackle in field operations.
- 211, 212. (1-2). Credit 1 each semester.
- (a) Theoretical: Drill and command, map reading and military sketching, scouting and patrolling, musketry, and combat principles.
- (b) Practical: Command and leadership as corporals, Infantry drill (close and extended order), map reading, exercises in visibility, position, and road sketching, duties of scouts and patrol leaders, ceremonies and inspections, and combat principles of the rifle squad.

Prerequisite: M. S. 111, 112.

- 311, 312. (3-2). Credit 3 each semester.
- (a) Theoretical: Military roads and railways, military bridges (fixed and floating), fortifications, drill and command, combat principles of section and platoon, and military explosives and demolitions.
- (b) Practical: Command and leadership as sergeants, tactical exercises, and map problems of section and platoon, use and care of explosives, location and construction of roads and operation of railways, design and construction of military bridges, organization of the ground for defense, military field engineering, camouflage.

Prerequisite: M. S. 211, 212.

- 411, 412. (3-2). Credit 3 each semester.
- (a) Theoretical: Military law, military history and policy of the United States, administration and supply, drill and command, combat principles, military roads and railways, Engineer organization and duties of Engineers.
- (b) Practical: Command and leadership as officers and instructors, rifle and machine gun company, and Howitzer platoon, and combat Engineer company, military roads and railways, military bridges, duties of Engineers.

Prerequisite: M. S. 311, 312.

COAST ARTILLERY UNIT

Professor William C. Washington, Major, C. A. C. Assistant Professor J. E. Reierson, First Lieut., C. A. C.

- 113, 114. (1-2). Credit 1 each semester.
- (a) Theoretical: National Defense Act, military courtesy, hygiene, and first aid, rifle marksmanship, ammunition, telephones, nomenclature 155 mm gun and carriage, Infantry drill, nomenclature 75 mm gun and carriage, service of the piece, and physical training.
- (b) Practical: Infantry drill, first aid, rifle marksmanship, telephones and cordage, care and adjustment of guns, service of the piece.
- 213, 214. (1-2). Credit 1 each semester.
- (a) Theoretical: Fire control instruments, nomenclature 155 mm gun and carriage, target characteristics (war ships), range section duties, harbor defense, telephones, target characteristics (aircraft), aiming and laying, and ammunition.
- (b) Practical: Service of the piece, 155 mm gun, Infantry drill, range section duties, and aiming and laying.

Prerequisite: Military Science 113, 114.

- 313, 314, (3-2). Credit 3 each semester.
- (a) Theoretical: Map reading, drill and command, position finding systems, drill and target practice, conduct of fire, heavy Artillery gunnery, anti-aircraft Artillery gunnery.
 - (b) Practical: Military sketching, drill and command, tactical problems. Prerequisite: Military Science 213, 214.

DEPARTMENT OF MODERN LANGUAGES

Professor Campbell, Associate Professor Woolket, Mr. Roberts

Foreign languages, in addition to their unquestioned cultural value, have a utili-Foreign languages, in addition to their unquestioned cultural value, have a utilitarian value of great importance for those expecting to engage in research or purely practical pursuits. A knowledge of foreign languages is not only very helpful, but often a necessary prerequisite for obtaining desirable positions, in consular work for example, or under civil service. Medical schools of high standing require from one to two and one-half years of French or German. Post-graduate study, to be carried on profitably, calls for a reading knowledge of French or German, usually both for more advanced work. Even in the strictly practical experimental laboratories of large corporations a working knowledge of these languages is often most helpful.

It is therefore advisable, when possible, for students to take up such a language early in their undergraduate course and thereby have the use of it when they begin advanced work in agriculture, engineering, or in pure science. Otherwise, as often hap-

advanced work in agriculture, engineering, or in pure science. Otherwise, as often happens, their specialization may be hampered and delayed.

A student entering college with entrance credit for two units in a foreign language and whose course calls for more language study in college may continue his high school and whose course cans for more language study in college may continue his high school language by taking the intermediate course. If his subsequent work is unsatisfactory and shows inadequate preparation, he will be required to drop that course and to take in its stead the beginning course, for which he will receive no college credit. In general, students entering with high school credit for two units of a foreign language with a grade of below B, will be advised to start a different language, especially if a year or more has lapsed since the completion of their high school work in modern language.

In beginning courses, by means of daily oral and written exercises, a thorough drill is given in pronunciation, the essentials of grammar, and the more important idiomatic

expressions. The reading of simple texts is taken up as early as possible.

In intermediate courses, selected texts and magazines are read with incidental grammar review and drill in the use of colloquial idioms. Short dictation exercises are frequently given. Special stress is laid upon sight reading. Parallel reading of from 150 to 300 pages of selected prose works is required. In French and German, the reading is gradually adapted to the work of other departments; in Spanish, the texts read are chiefly literary and commercial.

- 101, 102. Beginning French. (3-0). Credit 3 each semester. Grammar and easy reading.
- 103, 104. Beginning German. (3-0). Credit 3 each semester. Grammar and easy reading.
- 105, 106. Beginning Spanish. (3-0). Credit 3 each semester. Grammar and easy reading.
- 201, 202. Intermediate French. (3-0). Credit 3 each semester. Reading of selected texts. Grammar review. Parallel reading.
- 203, 204. Intermediate German. (3-0). Credit 3 each semester. Reading of selected texts. Grammar review. Parallel reading.
- 205, 206. Intermediate Spanish. (3-0). Credit 3 each semester. Reading of selected texts. Grammar review and conversation. Parallel reading.
- 301, 302. Modern French. (3-0). Credit 3 each semester.

A study of representative works from the beginning of the nineteenth century to the present time, with outside reading.

First semester, the drama; plays by Hugo, Dumas, Augier, Labiche, Scribe, Rostand, and others.

Second semester, the novel: texts selected from the works of Hugo. Balzac. Maupassant, Daudet, Zola, Loti, and France.

П

303, 304. Modern German. (3-0). Credit 3 each semester.

A study of representative works from the beginning of the nineteenth century to the present time, with outside reading.

First semester, the drama: selections from the works of Kleist, Grillparzet, Hebbel, Ludwig, Sudermann, Hauptmann, and others.

Second semester, the novel: selections from the works of Scheffel, Freytag, Keller, C. F. Meyer, Sudermann, and others.

305, 306. Modern Spanish Drama. (3-0). Credit 3 each semester.

Drama of the nineteenth and twentieth centuries, beginning with the Romanticists, Larra, Gutierrez, Hartzenbusch, Gil y Zarate, and Zorrilla; followed by the Post-Romanticists, Tamayo y Baus, Nunez de Arce, Echegaray, Galdos, and Dicenta; and concluding with the contemporary writers, Marquina, Ayala, Benavente, the brothers Quintero, Linares Rivas, Martinez Sierra, Marquina, and Grau.

314. Technical and Scientific German. (30). Gredit 3.

A practical course designed primarily to meet the needs of those whose professional work requires proficiency in the reading and translation of scientific German. Reading of available texts and periodicals best adapted to the needs of the departments most concerned. Prerequisite: Course 204 or equivalent.

316. Commercial and Industrial Spanish. (3-0). Credit 3.

A practical course designed for those who expect to follow their professions among Spanish speaking people. Social and commercial correspondence and reading of commercial and industrial texts and periodicals. Prerequisite: Course 206 or equivalent.

335, 336. Modern Spanish Novel. (3-0). Credit 3 each semester.

The study of representative Spanish and Spanish-American works from the beginning of the nineteenth century to the present time.

First semester: texts selected from the works of Caballero, Valera, Galdos, Bazan, Pereda, Lizardi, Marmol, Blest Gana, and Isaacs.

Second semester: Ibanez, Ricardo Leon, Larreta, Gamboa, Blanco-Fombona, Wast, Pio Baroja, Perez de Ayala, Valle-Inclan, Concha Espina, and others.

406. Spanish Literature through the Golden Age. (3-0). Credit 3.

A general survey of Spanish Literature from its inception through the "Golden Age." Careful study of selections from the works of Lope de Vega, Ruiz de Alarcon, Tirso de Molina, Calderon de la Barca, Cervantes, Quevedo, and others. Special study of the "Don Juan" legend, the "Celestina," and the picaresque novel.

DEPARTMENT OF MUNICIPAL AND SANITARY ENGINEERING

Professor Steel

401. Sewerage and Sewage Disposal. (3-0). Credit 3.

Determination of the quantity of storm water and domestic sewage; design and construction of sewer systems; principles of sewage treatment; methods of treatment; operation of sewage disposal plants. Prerequisite: Civil Engineering 311.

402. Water Supply and Purification. (3-0). Credit 3.

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Development of ground and surface water supplies; principles and methods of water purification; design, construction and operation of waterworks systems for municipalities. Prerequisite: Civil Engineering 311, or registration in that course.

403. Sanitary Design. (1-5). Credit 3.

I

Practical problems in the design of sewer systems and appurtenances; sewage disposal plants; water collection and distribution systems; water purification plants. Prerequisite: To be taken with Municipal and Sanitary Engineering 401.

406. Sanitation and Public Health. (3-0). Credit 3.

H

Relation of sanitation to public health; municipal sanitary work, including garbage and refuse disposal; plumbing; control of food supplies; mosquito; fly and rodent control; sanitation of swimming pools and tourist camps; organization of health departments. Prerequisite: Junior classifaction.

408. Municipal Administration. (3-0). Credit 3.

11

City government, including the city manager plan; relation of city to state; administration of city departments; public utilities; city planning. Prerequisite: Junior classification.

FOR GRADUATES

501, 502. City Management. (4-0). Credit 4 each semester.

Development of European and American cities, forms of city government, functions of the city manager; administration of municipal affairs; organization of city departments; city finances; public utilities; fire prevention and protection; police administration; parks and playgrounds; public health and welfare; housing; city planning.

503, 504. Sanitary Engineering. (4-0). Credit 4 each semester.

Principles and methods of sewage treatment, principles and methods of water purification; recent developments in the treatment of water and sewage; garbage and refuse collection and disposal; mosquito control; sanitation and public health.

DEPARTMENT OF PETROLEUM ENGINEERING

Professor Joyce, Associate Professor Mills

201, 202. Drilling and Development. (2-0). Credit 2 each semester.

A study of the oil field, lease location, preparation for prospecting, drilling and subsequent development after oil has been found. Prerequisite: Mathmatics 112.

301. Oil and Gas Transportation. (2-0). Credit 2.

The natural gas industry, manufacture of natural gasoline; means of transporting crude oil and natural gas; laws and regulations connected with pipe line transportation. Prerequisite: Petroleum Engineering 202, Physics 204.

302. Equipment and Applications. (3-2). Credit 4.

Equipment used in oil fields, and its application to a useful purpose. Prerequisite: Petroleum Engineering 301.

401. Oil and Gas Measurement. (3-4). Credit 4.

Theory and practice of oil and gas measurements; accounting for oil and gas from the well to the point of consumption. Prerequisite. Petroleum Engineering 302, Geology 307, 312.

402. Oil Field Management. (3-2). Credit 4.

11

The management of oil field properties. Field trips. Prerequisite: Petroleum Engineering 302, Geology 307, 312

403, 404. Petroleum Problems. (0-4). Credit 1 each semester.

Practical investigations, subject to approval of Head of Department. Prerequisite: Petroleum Engineering 302, and registration in 401, 402.

FOR GRADUATES

501, 502. Petroleum Engineering Problems. (2-4). Credit 3 each semester. An advanced course in Petroleum Engineering Problems, with special reference to the application and design of equipment.

DEPARTMENT OF PHYSICAL EDUCATION

Professor Bell, Professors Anderson, Penberthy, Associate Professors J. B. Reid, Carlton, Assistant Professors Higginbotham, Holmes, Mr. Sprague

The work of the Department of Physical Education is given in the following I. Physical Education and Corrective Gymnastics.
II. Intramural Athletics.
III. Freshman Athletics. divisions:

- III. Freshman Athletics.

 IV. Intercollegiate Athletics.

 V. Courses for Students who Desire to Major in Physical Education.

 I. Physical Training and Corrective Gymnastics.

 (a) Physical examination of freshmen and individual advice regarding defects of any nature. Classification of each case according to physical exercise, capacity and needs.

 (b) Health talks to freshmen at frequent intervals throughout the year.

 (c) Freshman physical training correlated with the corrective program and the intramural program in such a way that every freshman participates in some form of

physical activity suitable to his health and physical needs. This work is given two hours a week throughout the year.

(d) Individual gymnastics.

II. Intramural Athletics.

Numerous intramural games and contests between classes and military organizations to utilize the competitive spirit in the development of sound bodies, self-control and Practically all students take part in some form of intramural athletic proficiency. athletics.

III. Freshman Athletics.

Freshman teams are organized from students who are in their first year in attendance at the College. These teams are supervised by members of the Department. Freshman teams are fostered in football, basketball, baseball, and track. Contests are scheduled with teams from institutions of non-collegiate rank.

Intercollegiate Athletics.

The Department of Physical Education has charge of all intercollegiate athletics, under the regulations laid down by the College and by the Southwest Athletic Conference. Intercollegiate contests are now held in the following sports: Football, basketball, track, baseball, tennis, cross country, and golf.

V. Courses in Physical Education.

101, 102. Physical Education for Freshmen. (0-2). No credit. Laboratory fee, \$1.50 each semester.

203, 204. Methods in Physical Education. (2-4). Credit 3 each semester. Study of the mental and physical growth of the child. Practice in teaching handball, volleyball, speedball, tennis, boxing, wrestling, swimming, diving and life saving methods. Prerequisite: Sophomore standing and approval of instructor.

206. Health Education. (3-0). Credit 3.

Health education in schools; personal and community hygiene; symptoms and control of common school diseases. To be accompanied by Physical Education 204.

305, 306. Public School Physical Education. (3-0). Credit 3 each semester. History of physical education; biological and educational aspects; organization of physical education programs in public schools. Prerequisite: Junior standing and approval of instructor.

308. Athletic Training. (3-0). Credit 3.

Details of training and conditioning individuals and teams; care and prevention of injury and care of athletic equipment. To be accompanied by Physical Education 312.

311, 312. Fundamentals of Athletic Coaching. (3-2). Credit 4 each semester. Fundamentals of football, basketball, track and baseball. technique. Prerequisite: Junior standing and approval of instructor.

401, 402. Theory and Practice of Athletic Coaching. (3-2).

Credit 4 each semester.

Development of teams in football, basketball, track and baseball; offense, defense and strategy. Prerequisite: Physical Education 308, 311, 312.

403, 404. Organization and Administration of Physical Education. (3-2).

Credit 4 each semester.

Organization and administration of interscholastic and intercollegiate athletics; intramural athletics in public schools and colleges, business adminisPHYSICS 193

tration of physical education and athletic sports. To be accompanied by Physical Education 401, 402.

DEPARTMENT OF PHYSICS

Professor Silvey, Associate Professors Vezey, Sanders, Assistant Professors McCorkle, Smith, Mr. Tarney

201, 202. College Physics. (3-2). Credit 4 each semester.

For students in general science courses and those preparing to enter medical school. The mechanics of solids, liquids and gases; the phenomena of heat, light, sound, electricity and magnetism. Emphasis is laid on the fundamental principles rather than the mathematical processes involved. The practice includes about thirty experiments in the subjects named above.

Laboratory fee, 50 cents each semester.

· 203, 204. General Physics. (3-3). Credit 4 each semester.

A general course in mechanics, heat, light, electricity, and magnetism for engineering students. Stress is laid on the derivation of the various formulas necessary for an understanding of the mathematical relations existing in physical determination. The practice includes about thirty experiments in the subjects named above. The work is, in general, quantitative. Prerequisite: Mathematics 111, 112.

Laboratory fee, \$1.00 each semester.

207, 208. General Physics. (3-2). Credit 4 each semester.

This course is identical with course 203, 204, except for the omission of electricity and magnetism. Prerequisite: Mathematics 111, 112.

Laboratory fee, \$1.00 each semester.

301. Heat. (3-3). Credit 4.

I

Heat transfer, kinetic theory, critical points, isothermal and adiabatic changes and the thermodynamics of the changes of state and radiation. Prerequisite: Physics 202, 204, or 208, and Mathematics 204.

Laboratory fee, \$1.00.

302. Properties of Matter. (3-3). Credit 4.

П

Universal gravitation, elasticity, surface tension, diffusion, viscosity and the mechanics of fluids. Prerequisite: Physics 202, 204, or 208, and Mathematics 204.

Laboratory fee \$1.00.

305. Light. (2-0). Credit 2.

]

The wave theory of light, optical instruments, dispersion, spectroscopy, abe rations, refractions interference, diffraction, polarization, double refraction and theories of refraction and reflection. The treatment is non-mathematical. Prerequisite: Physics 202, 204 or 208.

401 Optics. (3-3). Credit 4.

I

Periodic motion, wave motion, the nature and propagation of light, inter-

te: nce, polarization and the theory of optical instruments. Prerequisite: Physics 202, 204, or 208, and Mathematics 204.

Laboratory fee, \$1.00.

402. Electricity and Magnetism. (3-3). Credit 4.

11

Electric fields, potential, capacitance, current, resistance, electrolosis, prima y and secondary cells, thermoelectric phenomena, magnetism, electronial induction, electronics and Roentgen rays. Prerequisite: Physics 202, 204, or 208, and Mathematics 204.

Laboratory fee, \$1.00.

407. Geophysics and Geophysical Methods. (3-0). Credit 3.

ī

A study of the earth's gravitational, magnetic, electrical, elastic and thermal properties, and the various methods of geophysical prospecting. The effects of various types of deposits upon each method are shown with the object of determining, from an analysis of structural and lithologic conditions, the type of geophysical method most suitable in any particular area.

Prerequisite: Physics 202, or 204, and Mathematics 203, 204; or senior standing in Geology or Petroleum Engineering.

FOR GRADUATES

501, 502. Analytical Mechanics. (3-0). Credit 3 each semester.

A study of rectilinear motion; plane and solid motion of a point, plane and solid rotational motion, mechanisms, strains, kinetics of a particle, kinetics of a rigid body, statics, attraction and potential, plane and solid statics of a rigid body, hydrostatics and hydrokinetics.

503, 504. Advanced Electricity and Magnetism. (3-0). Credit 3 each semester.

A study of the underlying principles of alternating electrical currents; the development of graphical methods of analysis as a basis for the solution of practical problems. The development of the equations for the propagation of an electromagnetic disturbance through a dielectric and for electromagnetic waves along wires and cables. A study of electrostatic and electromagnetic fields, the electromagnetic theory of light, thermal and electrical conduction in magnetic fields, discharge of electricity through gases, Roentgen rays, Becquerel rays and the theory of the structure of the atom.

505, 506. Theory of Thermodynamics and Thermal Radiation. (3-0).

Credit 3 each semester.

An advanced course in thermodynamics and thermal radiation including Planck's thermodynamical basis of the quantum theory, the quantum theory of specific heats, Gibb's phase rule, Nernst's heat theorem, radiation, spectra, chemical equilibrium and affinity, modern theories of osmotic pressure, properties of solutions and voltaic cells.

507, 508. Kinetic Theory; Electron Theory. (3-0). Credit 3 each semester. A study of gas pressure, speed of gaseous molecules, Boyle's law, the law

of Gay-Lussac, Graham's Law, mean free path, coefficients of diffusion and viscosity, Maxwell's distribution law, Vander Waal's equation and Brownian movements. The phenomenon of conductivity of electricity through gases, mobility and diffusion of gaseous ions, measurement of the elementary charge, ratio of charge to mass of ions, positive ions and photo-electric action. Open to undergraduate students who have a grade of A or B in Physics 301, 302.

DEPARTMENT OF POULTRY HUSBANDRY

Professor D. H. Reid, Assistant Professor Munnerlyn.

201. Poultry Production. (2-2). Credit 3.

I, II

The breeds and types of poultry, culling poultry for egg production, incubation, brooding and feeding for growth and egg production, winter and summer management, housing and hygiene, preparing poultry for market, methods of marketing; practical application of these subjects to general farm conditions. The practice consists of the identification of breeds and varieties, judging poultry as to sex, age, constitutional vigor and egg productions, plans for poultry farms and poultry houses, identification of feeds, methods of dressing poultry.

Laboratory fee, 50 cents.

301. Market Poultry. (2-2). Credit 3.

I

Pen fattening, crate fattening, fattening of the turkey flock, special feeds for ducks and geese, methods of dressing, trussing and deboning the fowls, candling eggs, preparing for cold storage and crating of poultry products.

The practice includes feeding two crates of fowls, dressing and preparing them for market, candling and grading eggs.

Laboratory fee, 50 cents.

302. Feeding and Brooding. (3-2). Credit 4.

П

Common grain and mill feeds for poultry, chemical composition, vitamin content and value as poultry feeds, embryology of the chick and introduction to brooding from a commercial standpoint. The practice includes methods of balancing poultry rations, different methods of determining the value of feeds, identifying and mixing poultry feeds, anatomy of the common fowl, identification of digestive and egg production organs. Prerequisite: Poultry Husbandry 201.

303. Turkey Production. (2-0). Credit 2.

I

Breeds of turkeys; care of the breeding flock; feeding the breeding flock; good hatching eggs; incubating turkey eggs; feeding the poults; raising turkeys in confinement; summer care of young stock; fattening the turkey flock.

304. Poultry Essentials. (2-2). Credit 3.

П

Starting with poultry, renewing the poultry flock; producing good market eggs; cost of producing hatching eggs; value of different feeds for the laying

hen; principles of judging Rhode Island Reds, White Leghorns, and Barred Plymouth Rocks. Arrangement of a poultry farmstead; seasonal products of the poultry farm and their preparation for sale. The practice consists of judging, feeding and culling poultry, and the working out of cost problems.

401. Culling and Management. (2-2). Credit 3.

The underlying principles of poultry culling, study of the literature, management of a large poultry flock on commercial poultry farms, selecting the breeding stock, qualities of a good breeding male. The practice includes a study of the relationship between physiological characteristics and egg production of the domestic fowls, the standard type, weight and qualities of standard bred domestic fowls. Prerequisite: Poultry Husbandry 201, 302.

402. Poultry Farming. (2-2). Credit 3.

11

The laying out of poultry farms, costs and management in raising a flock of one thousand or more, types of houses, incubators and brooders, raising of special types of poultry, teaching and demonstrating plans. The practice consists of problems in organizing, financing and establishing a commercial poultry business. Prerequisite: Poultry Husbandry 201.

403. *Judging*. (2-2). *Credit* 3.

I

The judging of standard breeds and varieties, special instructions for judges, methods of fitting for the show room, methods of breaking ties in poultry show, standard disqualifications and special disqualifications for the different varieties. The practice consists of judging classes of exhibition poultry raised on the College poultry farm and the judging of two or more small shows in the surrounding communities. Prerequisite: Poultry Husbandry 201.

405, 406. Poultry Problems. (2-6). Credit 4 each semester.

The student works out a project in poultry breeding or nutrition with the Texas Agricultural Experiment Station, under the direction of the Chief of the Division of Poultry Husbandry. The data for the project are provided by the Station. The student's final report must be approved by the Chief of the Division of Poultry Husbandry and the Head of the Department of Poultry Husbandry.

Incubation and Hatching Management. (0-4). Credit 1.

The operation of two different mammoth incubators and the adjustment of these machines under various conditions of heat and moisture in order to secure hatches of healthy chickens. The use of a hair hygrometer, the self recording thermometer, with practical lessons in the care and treatment of hatching eggs and the actual management of a hatchery. Prerequisite: Poultry Husbandry 201.

422. Artificial Brooding. (0-4). Credit 1.

I

The actual brooding of several hundred baby chicks under close supervision. The pedigreeing, wing banding and culling of growing chicks, with lessons in the cost and best methods of mixing poultry feeds for young chicks. Prerequisite: Poultry Husbandry 201.

FOR GRADUATES

501, 502. Research Problems. (2-4). Credit 3 each semester.

A study of recent investigations in poultry breeding and nutrition. Research methods are given attention. Experiment station literature, scientific journals and newer publications are to be read and reported by the student.

503, 504. Advanced Incubation and Brooding. (2-4). Credit 3 each semester.

Factors underlying the successful hatching of eggs. A study of the effects of various chemicals and disinfectants on the hatching of hens' eggs. Peculiar requirements of hatching eggs from different species of domestic fowl. Chickens, ducks, geese, turkeys and guinea fowl. Nutritive requirements of the young of the different species of domestic fowl. Optimum percentages of proteins and other nutrients in the ration. The vitamines necessary for growth. Results of vitamine deficiency in rations.

(These courses are offered in cooperation with the Department of chemistry).

Laboratory fee, \$1.00 each semester.

505. Embryology of the Chick. (2-6). Credit 4.

A microscopic study of the changes which take place in the egg during the period of incubation; methods of changing the rate of development of the embryo.

DEPARTMENT OF RURAL EDUCATION

Professor W. L. Hughes, Professor Wilcox

121, 122. Elementary School Methods. (3-0). Credit 3 each semester.

Methods of teaching the elementary school subjects, with special attention to the problems of the rural teacher, such as, fitting the course of study to the small rural schools, daily programs, and correlation of subjects. 221. Rural School Methods. (3-0). Credit 3.

Organization of the school, the daily program, general management, classifying and promoting pupils, keeping school records, and methods of teaching under rural school conditions.

222. Rural School Administration. (3-0). Credit 3.

The administrative problems of rural and village schools, such as community leadership, evaluating the efficiency of teachers, financing rural schools, cooperating with agencies for rural school improvement, consolidation, teachers institutes.

321. Secondary School Methods. (3-0). Credit 3.

Methods of teaching high school subjects; for students who expect to teach in city high schools.

322. Secondary School Administration. (3-0). Credit 3.

The administrative problems of the city superintendent; for teachers who expect to administer school systems.

422. History of Education. (3-0). Credit 3.

The history of modern education, with special attention to the history of education in the United States.

423. The Junior High School. (3-0). Credit 3.

The organization and problems of the Junior High School.

424. Principles of Rural School Supervision. (3-3). Credit 4. S

The activities of the rural school supervisor. Practice in adjusting and making equipment specially suitable for the rural school. Prerequisite: R. E. 221, 222.

425. Practice Teaching. (1-5). Credit 3.

affecting school efficiency.

I, II

FOR GRADUATES

- 501. Problems in Rural Education. (4-0). Credit 4. I

 The rural school problem in the United Statees, including problems in related fields.
- 502. Problems in Rural School Administration. (4-0). Credit 4. II Organization, supervision, and administration of rural schools.
- 504. Development of Public School Education in Texas. (4-0). Credit 4. II The origin and development of public school education in Texas.
- 505. Principles of Educational Administration. (4-0). Credit 4. I The administration of state and county school systems.
- 506. Principles of Educational Administration. (4-0). Credit 4.

 The problems of the city superintendent of schools.
- 507. Principles of City School Supervision. (4-0). Credit 4. I
 Types of supervision and the organization of supervisory programs. Tests
 and measurements in relation to supervision. Problems and lectures.
- 508. Problems in Public School Support. (2-0). Credit 2.

 A study of all types of school funds, and their relation to school efficiency. Problems and lectures.
- 509. Curriculum Construction. (2-0). Credit 2.

 Problems and lectures in adjusting the public school curriculum to the modern philosophy of education.
- 510. Child Accounting. (2-0). Credit 2.

 Devices to record and improve census taking and attendance; classification and promotional schemes; school record systems; school reports and pupil appraisals studies; grading promotions and eliminations; child accounting as

DEPARTMENT OF RURAL SOCIOLOGY

Professor Russell.

201. Introduction to Social Problems. (3-0). Credit 3.

An introduction of the study of society. The work is mainly descriptive, but the ethical implications of some social relations are discussed. Human relations in the family: education, economic activity, politics, race contacts, and international affairs.

204. Introductory Rural Sociology. (3-0). Credit 3.

ľ

The underlying social problems of the country district. The human element in rural life and production; some disorganizing tendencies in rural life, as farm tenancy, communication, poor schools, decaying churches; progressive agricultural tendencies.

311. Social Psychology. (3-0). Credit 3.

The factors affecting group behavior together with methods of social control; the forces and influences which determine the mental attitudes of country people; the connection between a good understanding of the social mind and successful organization effort; methods of dealing with the problems involved; the many questions related to public opinion.

312. General Sociology. (3-0). Credit 3.

The position of sociology among the social sciences. The subject matter of sociology is outlined under the following heads; Population, physical environment, human motivation, social organization and social pathology. Emphasis is placed upon methods of investigation and quantitative measurement of the data of sociology.

404. Rural Organization. (3-0). Credit 3.

H

A study of community life in the rural districts with its natural organizing and disorganizing tendencies; a survey and evaluation of attempts at community organization, as the survey, community club plan, community council plan, the school community center, the community church, the Y. M. C. A., the Red Cross.

405. Social Research Methods. (2-2). Credit 3.

I

A study of the technique of making, editing and publishing social science studies; the social survey, the case study, the interview, the questionaire, the monograph. Several completed surveys are studied with an idea of understanding method as well as content. Special attention is paid to research possibilities of rural social problems.

407. Rural Sociology. (2-2). Credit 3.

An analysis of the conditions, forces and agencies influencing the life of the country dweller and the country community; a detailed study of a number of special problems related to the social side of country life, such as population questions; cityward drift; town and country relationships; rural health problems, recreation, rural leadership; community organizations and community planning. Attention is also given to the social problems connected with the home, the school, the church, the press and other social institutions.

415. Agricultural Journalism. (2-2). Credit 3.

I

The principles of newspaper writing, especially the preparation of material for agricultural papers and country weeklies; the part a country paper should play in country development; in the laboratory work, opportunity is given for actual writing for newspapers and farm journals. The Publicity Office of the College, and Publicity Department of the Extension Service cooperate in the course.

416. Agricultural Journalism. (2-2). Credit 3.

11

A continuation of course 415. Additional practice in the preparation of articles for agricultural and country newspapers; news campaigns for special objectives; the business side of conducting a paper.

FOR GRADUATES

501, 502. Advanced Rural Sociology. (4-0). Credit 4 each semester.

An intensive study of some important aspects of the field of rural sociology. The first semester is concerned mainly with the evolution of rural society; the second semester with an analysis of some of the principal rural social problems of today and proposed solutions.

511. History of Modern Social Thought. (4-0). Credit 4.

1

A study of the history, basis and foundation of modern systems of thinking, as to authors who advance the theories, and as to different theories themselves. Special emphais is placed on the study of the mental attitudes of the farmers on social, political, and economic questions.

512. The Rural Community. (4-0). Credit 4.

- 11

A study of the rural community as to its geographic background, population, social institutions, and occupational attitudes. Different efforts at organizing the rural community, as the county public welfare project, school and church community center projects, recreational and health projects, local, state and national agencies for rural community co-operation are studied.

DEPARTMENT OF TEXTILE ENGINEERING

Professor Bagley, Associate Professor Lichte, Assistant Professor Powers

102. Cotton Classing. (0-2). Credit 1.

П

Practice in grading and stapling cotton, methods of handling the crop from the field to the mill. Other subjects of general interest to a cotton student are presented in lecture form.

Laboratory fee, 50 cents.

107, 108. Cotton Classing. (2-5). Credit 4 each semester.

Classes of buyers found in interior towns; problems and methods of

interior buying; detail office methods, keeping account of purchases and sales of cotton. Practice as in 102.

Laboratory fee, \$1.25 each semester.

205. Cotton Exchanges. (3-0). Credit 3.

I

History and purpose of cotton exchanges, operation and details.

206. Yarn Manufacture. (0-3). Credit 1.

H

Practice in the operation of machinery used in the manufacture of cotton yarns.

207. Weaving. (0-3). Credit 1.
Practice in operating plain looms.

I

211, 212. Cotton Classing. (1-5). Credit 3 each semester.

Lectures covering the larger problems of cotton marketing. Practice similar to 107, 108. Prerequisite: Textile Engineering 107, 108.

Laboratory fee, \$1.25 each semester.

218. Foreign Cotton Markets. (3-0). Credit 3.

H

A study of the production and marketing of cotton in foreign countries.

301, 302. Yarn Manufacture. (3-3, 0-2). Credit 4, 1.

The machinery and processes used in the manufacture of coarse cotton yarns. Study of the raw material; mixing; construction and operation of picking machinery; carding, drawing, slubbing, roving, ring spinning, spooling, reeling, and twisting; calculations to determine the necessary gearing to produce given numbers, speeds and production.

303, 304. Fabric Designing. (0-3). Credit 1 each semester.

The classification of fabrics; elementary principles of fabric structure; explanation of various technical terms applied to designs and fabrics; the representation of drawing-in drafts and harness chains; design of fancy shirting, madras, dress goods.

307, 306. Weaving. (3-3). Credit 4 each semester.

Construction, operation and adjustment of plain, automatic, gingham, dress goods, and Jacquard looms.

401, 402. Yarn Manufacture. (3-2, 2-3). Credit 4, 3.

A continuation and more exhaustive treatment of course 301, 302. Warp preparation, combers, mules, and organization for the manufacture of all classes of yarns. Prerequisite: Textile Engineering 301.

413, 414. Cotton Classing. (1-3, 0-3). Credit 2, 1.

Recitations and lectures on classification and stapling of cotton, buying spot cotton, papers used in the cotton trade and cotton exchanges.

Laboratory fee, 50 cents each semester.

415, 416. Fabric Design. (0-3, 1-3). Credit 1,2.

Dissecting samples of cloth for reproduction. The practice is a continuation of course 304. Prerequisite: Textile Engineering 304.

419, 420. Weaving. (1-2, 0-3). Credit 1 each semester.

A study of loom fixing, cloth room machinery, and yarn dressing. Prerequisite: Textile Engineering 307, 306.

422. History of the Textile Industry. (3-0). Credit 3.

11

The development of the textile industry of the United States, covering phases of technical manufacturing; labor, wages, education; associations and combinations. A comparison is made with English and European manufacturing.

DEPARTMENT OF VETERINARY ANATOMY

Professor Francis

111, 112. Anatomy of the Domestic Animals. (3-6). Credit 5 each semester.

A study of the bones, joints and muscles; the thoracic and abdominal viscera.

Laboratory fee, \$2.00 each semester.

211. Anatomy of the Domestic Animals. (3-6). Credit 5. I Dissection of the circulatory system, the nervous system and the organs of special sense.

Laboratory fee, \$4.00.

213. Histology and Embryology. (2-4). Credit 3.

A lecture and laboratory course.

Laboratory fee, \$2.00.

302. Anatomy and Physiology of Domestic Animals. (2-2). Credit 3. II

An introduction to the study of veterinary medicine. The course treats the fundamental process of animal nutrition in detail, so that each student may be prepared to meet the problems that arise in the economic production of beef, pork, and dairy products.

Laboratory fee, \$1.50.

FOR GRADUATES

511, 512. Veterinary Anatomy. (2-4). Credit 3 each semester.

DEPARTMENT OF VETERINARY MEDICINE AND SURGERY

Professor Marsteller, Professor Dunn, Associate Professor Lenert

351, 352. Non-infectious Diseases. (3-0). Credit 3 each semester.

Lectures and demonstrations on physical diagnosis. Diseases of the digestive, circulatory, respiratory and urinary organs.

361, 362. General Surgery. (3-0). Credit 3 each semester.

The principles of surgery, restraint of domestic animals, surgical diagnosis, surgical exercises and soundness.

371, 372. Clinics. (0-7, 0-12). Credit 2, 4.

Laboratory fee, \$2.00 each semester.

NOTE: All students taking clinics are required to give attention daily to cases assigned, and if necessary laboratory diagnosis and post-mortem examinations must be conducted. Students will visit sick animals on farms, ranches, and other premises near the College. Trips to other parts of the State are required when outbreaks of diseases occur that can not be studied at the College. About five thousand cases of non-infectious diseases, infectious diseases and surgical diseases of animals and fowls are treated each year.

403. Animal Diseases. (3-2). Credit 4.

I

Common infectious and non-infectious diseases of domestic animals. Prerequisite: Veterinary Anatomy 302.

- 451. Diseases of Small Animals and Fowls. (3-0). Credit 3.

 Non-infectious and infectious diseases in pet animals and domestic fowls.
- 452. Practice of Veterinary Medicine and Jurisprudence. (3-0). Credit 3. II General business methods, and State and national laws relating to the practice of veterinary medicine.
- 453. Infectious Diseases. (3-0). Credit 3.

 Symptoms, treatment and control of infectious diseases.
- 455. Diseases of Poultry. (2-0). Credit 2.

П

461. Obstetrics. (2-0). Credit 2.

I

Accidents of breeding, diseases incident to pregnancy, parturition and post-partum conditions. Attention is also given to diseases of the newly born. Laboratory fee, \$1.00.

462. Operative Surgery. (3-4). Credit 4.

П

Castrating, spaying, dentistry, lameness, shoeing. Surgical exercises are required.

Laboratory fee, \$4.00.

471, 472. Clinics. (0-7). Credit 2 each semester. Laboratory fee, \$2.00 each semester.

FOR GRADUATES

501, 502. Special Surgery. (2-4). Credit 3 each semester.

Problems of surgical conditions, surgical pathology, surgical technique and sterility of animals.

Laboratory fee, \$2.00 each semester.

DEPARTMENT OF VETERINARY PATHOLOGY

Associate Professor Wharton

242. General Pathology. (3-2). Credit 4.

П

The elementary disease processes and their causes, including a study of the gross and minute appearance of the diseased tissue. Such processes as inflammation, necrosis, gangrene, atrophy, hypertrophy, ulceration; the various degenerations, infiltrations, pigmentations and tumor formations are considered. The practice consists of the microscopical study of these processes and instruction in laboratory technique. Prerequisite: Veterinary Anatomy 213. Laboratory fee, \$1.50.

341, 342. Special Pathology. (2-0, 2-4). Credit 2, 3.

Lectures on the special systematic pathology and morbid anatomy of the different organs and systems of organs. The pathology of the various infectious and contagious diseases is considered. The practice includes the demonstration of museum and fresh specimens and an introduction to postmortem technique. Prerequisite: Veterinary Pathology 242.

Laboratory fee, \$4.00, second semester.

343. Special Bacteriology. (2-4). Credit 3.

I The pathogenic micro-organisms; their morphology, cultural characteristics and pathogenicity are considered. The practice consists of the study of the more important micro-organisms which produce diseases in man and domestic animals. Prerequisite: Biology 206.

Laboratory fee, \$4.00.

441. Immunology and Serum Therapy. (2-2). Credit 3.

The fundamental principles of immunity. Special attention is given to the preparation of biologics used in the prevention of infectious diseases. Prerequisite: Veterinary Pathology 343.

Laboratory fee, \$4.00.

442. Food Hygiene. (2-2). Credit 3.

H

The abattoir inspection of meats and meat products; Federal regulations governing such inspection, condemnation and disposal of carcasses, also regulations governing interstate and foreign shipments of livestock. Prerequisite: Veterinary Pathology 341, 342. Some time is devoted to laboratory inspection of milk and water.

443. Parasitology. (2-2). Credit 3.

I

Parasites infesting domestic animals and the pathological conditions produced by them. Attention is given to treatment and control measures. Prerequisite: Biology 207.

Laboratory fee, \$1.50.

444. Laboratory Diagnosis. (2-2). Credit 3.

H

Methods of procedure in the preparation of materials for laboratory examination; technique of examination; biological tests of special importance; animal inoculations; isolation of the organisms of diseases from lesions.

Prerequisite: Veterinary Pathology 341, 342, 343.

Laboratory fee, \$2.00.

FOR GRADUATES

541, 542. Advanced Special Pathology. (3-4). Credit 4 each semester.

Etiology, pathogenesis, lesions and results of diseases of organs and systems of organs; pathology of infectious diseases. Prerequisite: Veterinary Pathology 242, or equivalent.

Laboratory fee, \$2.00 each semester.

543, 544. Advanced Special Bacteriology. (3-4). Credit 4 each semester.

A study of pathogenic micro-organisms; their cultural and biological characteristics and pathogenicity. Prerequisite: Biology 206.

Laboratory fee, \$2.00 each semester.

DEPARTMENT OF VETERINARY PHYSIOLOGY AND PHARMACOLOGY

Associate Professor Burns

121, 122. Physiology of the Domestic Animals. (2-0). Credit 2 each semester. The physical and chemical processes involved in the physiological functioning of the bodies of the domestic animals; physiology of the circulatory, respiratory, muscular, and locomotor systems.

221, 222. Physiology of the Domestic Animals. (2-0, 3-4). Credit 2, 4.

Digestion, absorption, secretion, excretion; physiological chemistry, with special reference to digestive juices, enzymes, hormones, milk, urine, and chemical composition of the body. The practice consists of studying blood, milk, urine, and other body fluids; action of natural and artificial digestive juices on foodstuffs; graphic records of the functioning of the muscular, nervous, respiratory, and circulatory systems. Prerequisite: V. P. P. 121, 122.

Laboratory fee, \$2.50 for course 222.

333, 334. Pharmacology. (3-4, 3-0). Credit 4, 3.

Metrology, history of therapeutics, source and composition of drugs, methods of administration, factors influencing the action of drugs, posology, prescription writing, drugs affecting the various tissues and organs of the body. Practice consists of identification of crude drugs; extraction of drugs; constituents; pharmaceutical methods; manufacture of types of official and a few non-official preparations; prescription compounding; chemical and biological methods of standardization of medicinal preparations; actions of drugs on experimental animals.

Laboratory fee, \$3.00 for course 333.

432. Toxicology. (1-2). Credit 1.

П

Causes, symptoms, lesions, prevention, and treatment of organic and inorganic poisons, including poisonous plants and endogenous poisons. Practice consists of analysis of more common organic and inorganic poisons; actions and treatment of poisons on experimental animals.

Laboratory fee, \$2.50.

FOR GRADUATES

501, 502. Advanced Practical Physiology. (2-4). Credit 3 each semester.

Recent phases of physiology: modern experimental methods. The work

Recent phases of physiology; modern experimental methods. The work is arranged to suit the needs of the student and in harmony with his previous training.

- 503, 504. Advanced Physiology of Nutrition. (2-4). Credit 3 each semester.

 A detailed study of the modern theories of nutrition with special reference to vitamins.
- 505, 506. Advanced Poisonous Plants. (2-4). Credit 3 each semester.

 Original investigations and detailed studies of the poisonous plants affecting domestic animals.
- 507, 508. Advanced Experimental Pharmacology. (2-4). Credit 3 each semester.
- Modern methods of research in pharmacology and pharmaceutical processes. Original research in studying the actions and uses of drugs.

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Part V

RESEARCH, EXTENSION, SUMMER SESSION, AND OTHER ACTIVITIES

THE TEXAS AGRICULTURAL EXPERIMENT STATION SYSTEM

A. B. CONNER, Director

The Texas Agricultural Experiment Station System is the agricultural research agency of the State, its function being the investigation and solution of agricultural problems. It consists of the central or main station at College Station with appropriate indoor laboratories, and sixteen outdoor laboratories, or substations, located in various sections of Texas, as follows: Angleton, Beaumont, Beeville, Chillicothe, Denton, Lubbock, Nacogdoches, Balmorhea, Spur, Temple, Tyler, Sonora, Weslaco, Iowa Park, Winter Haven and College Station. In addition, there are beeyards at Dilley, Seguin, and Roxton, and a queenyard at the State Agricultural Research Laboratory located at San Antonio. The work of the Station System comprises researches in the more important problems of veterinary science, chemistry, horticulture, animal industry (including range animal husbandry, dairy husbandry, swine husbandry and poultry husbandry), botany, entomology, agronomy, plant pathology and physiology, farm and ranch economics, rural home research, agricultural engineering, and feed control service. The substations and other outdoor or field laboratories are utilized for extending the work of the main station so that statewide information may be secured upon the various phases of the investigational work. The Station System is the source of valuable information for students of agriculture and the farmers and stockmen of the State. It is looked to for facts by the School of Agriculture, the Extension Service, and other agencies for the dissemination of agricultural information. The work of the main station and of the Feeding and Breeding substation (Substation No. 10) presents to students unusual opportunities both in theoretical instruction and practical experience.

For the fiscal year ending August 31, 1932, the Station System received \$90,000.00 Federal funds and \$351,416.00 State appropriation.

A brief statement of the work of the Station System follows:

MAIN STATION

Veterinary Science: The division of Veterinary Science conducts researches covering the diseases of farm animals of various kinds. Special attention is being given to diseases affecting horses and mules, cattle, sheep, goats, and swine.

Chemistry: The division of Chemistry conducts researches relating to feeding stuffs, soils, fertilizers, irrigation waters, minerals, paints, and miscellaneous analyses; the analysis of feeding stuffs for the Feed Control Service; and the enforcement of the State law regulating the sale of commercial fertilizers. The Chief of the division is also State Chemist.

Horticulture: The division of Horticulture conducts investigations relating to fruits, vegetables, and ornamental trees and shrubs, and the introduction and propagation of new and promising varieties of fruits, vegetables and shrubs from foreign countries.

Range Animal Husbandry: The division of Range Animal Husbandry conducts investigations in the breeding, management, feeding, and grazing of range animals, such as sheep, Angora goats, and cattle. Special attention is being paid to inheritance and scientific breeding as related to the improvement of specially adapted types of animals and to the improvement of wool and mohair. The division operates the wool and mohair scouring plant which is located at the Main Station. Substations 7, 10, and 14, are used extensively for researches relating to range animal husbandry.

Soil Survey: The division of Soil Survey is operated in cooperation with the Bureau of Soils of the United States Department of Agriculture, and its work is the detailed and reconnaissance soil survey of the entire State of Texas, by counties and areas. Soil surveying is merely the recording of the soil resources by type, or an inventory of the soil. The value of a soil survey is generally recognized as an aid to agricultural advancement.

Feed Control Service: The State law regulating the sale of concentrated commercial feeding stuffs and the materials from which they are manufactured, provides for defining them, prohibiting their adulteration; for correct weighing and marking, and for collecting of samples; it also provides for the expense of enforcing the law, and for fixing penalties; and places the enforcement of the act in the hands of the Director of the Texas Agricultural Experiment Station. The Director is empowered to adopt names, standards and definitions; to refuse registration of any feeding stuff under a name which would be misleading as to the materials of which it is made, or which does not conform to the standards, and after ten day's notice may cancel such registration as may be found to be in violation of the law or contrary to the names, standards and definitions in effect.

The purpose of the Feed Control Service is to afford protection alike to buyers and sellers of feeding stuffs. Annual bulletins are issued, giving the names, standards and definitions; lists of firms registered for the purpose of selling feeds in Texas, and the feeds offered by them, as well as the chemical composition of these feeds, as determined by the chemist for the Feed Control Service.

The Feed Control Service investigates problems encountered in the enforcement of the law, with reference to the feeding value of various feeds

and combinations of feeds. The results of these investigations are given to the people of the State through bulletins and circulars, issued from time to time.

Entomology: The division of Entomology conducts researches relating to the insect pests affecting the crops grown in Texas, including life-history and methods of control of the various species. Special cotton insect investigations are being conducted with emphasis on the cotton flea hopper and the boll weevil. The Chief of the Division is also State Entomologist, and as such has charge of the details of the enforcement of the law regulating foul brood in bees.

Agronomy: The division of Agronomy conducts researches with farm crops and soils, giving special attention to the introduction of new and promising varieties and the improvement of field crops by breeding methods. Particular attention has been given to breeding work with grain sorghums, cotton, wheat, and other crops, not only toward improving them, but in the determination of the modes of inheritance of characters. Investigations are made as to tillage methods, methods of applying fertilizer and the use of green manure crops for soil improvement. Through the introduction of new varieties and strains and the improvement of these and others by selection, marked increases have occurred in the acreage and production of grain sorghums in Texas. Another accomplishment of great economic importance to the State is the extension of the cotton-growing area, brought about through trials and tests of early varieties followed by breeding work in Northwest Texas, which has opened up an extensive new cotton-growing region not infested with the boll weevil.

Plant Pathology and Physiology: The division of Plant Pathology and Physiology conducts researches relating to diseases affecting the plants of the State with a view to developing methods of combating them. Studies are made of the diseases of field crops, vegetables, trees, and ornamentals and shrubs of various kinds. Intensive cotton root rot investigations are being conducted at the main station and at the central Cotton Root Rot Station in the blacklands, as well as at other points in the State where this disease is prevalent.

Farm and Ranch Economics: The activities of the division of Farm and Ranch Economics are confined primarily to research in the business phases of the agricultural industry of the State. Research conducted at present may be classified under three major groups; Farm Management, Marketing, and Farm Taxation. Specific projects under way are; type-of-farming area studies, system-of-farming studies, economic factors influencing the marketing of vegetables in the lower Rio Grande valley of Texas, relation of quality to price in farmer's cotton market, and farm taxation. The chief objective of the research program of this division is to assist farmers and ranchmen in the several agricultural areas of the State to make the most of their resources in land, labor, and equipment.

Botany: The division of Botany is engaged in the study of the flora of

Texas as it relates both to ranching and crop farming in the different sections of the State. The diversity of vegetation on the range affects the quality and feed values produced. The flora in a section where cultivated crops are grown has an intimate relation to plant diseases and may oftentimes act as host plants for virulent diseases, of which cotton root rot is an example. The study of the flora of Texas in all its relationships is a most important field of endeavor.

Swine Husbandry: The division of Swine Husbandry conducts investigations and researches in the feeding, breeding and management of swine. The swine husbandry plant is located on the grounds of the feeding and breeding substation near the College campus.

Dairy Husbandry: The division of Dairy Husbandry also has its plant on the feeding and breeding substation, where researches in the feeding, management, and improvement by breeding, of dairy cattle are being conducted.

Poultry Husbandry: The division of Poultry Husbandry is conducting investigations in connection with the feeding, breeding, and management of poultry, with special reference to the improvement of flocks by breeding, and increased egg production through the judicious use of animal and vegetable protein feeding stuffs. The poultry plant is located on the grounds of the feeding and breeding substation near the College campus.

Rural Home Research: The division of Rural Home Research is engaged in the study of nutrition as it relates to development and growth in children. Nutrition may affect not only the growth and development but the health of the individual, and studies of diet in relation to the wellbeing of the individual are of the greatest importance. Studies are also being made of the influence of sunlight on the durability and fastness of cotton fabrics, which work not only has an important relation to the utility of cotton fabrics but promises to develop information as to the possibility of deterioriation of cotton fibers in the field before harvesting.

Apicultural Research: The division of Apiculture has a specially equipped laboratory for beekeeping investigations, located near San Antonio, in Bexar county. This laboratory is in charge of a competent Apiculturist who is conducting researches bearing directly on the successful continuation of the beekeeping industry of the State. A competent queen breeder is also located at this laboratory.

Agricultural Engineering: The division of Agricultural Engineering is at the present time making an intensive study of cotton harvesting machinery and problems connected with the placement of cotton seed and fertilizers. The engineering phases of soil and water conservation naturally fall within the field of this division.

Main Station Farm: The main station farm at College Station is operated as a field laboratory for tests of field crops and the researches having to do with soil fertility, as well as those having to do with the introduction

and propagation of valuable trees, shrubs, and grasses. Special attention is being given to cotton breeding work, which is conducted by the division of Agronomy. There is on the farm a modern gin-plant primarily for the ginning of the increase cottons for pure seed, but neighboring farmers have taken advantage of this gin-plant to have their increase seed ginned without danger of mixture with other non-pure cotton seed.

Substations

The substations or experiment farms, owned and operated by the Station System, are, as their name implies, subordinate to and a part of the main station. In the location of these substations, due regard has been given to the needs of outlying work within the several agricultural regions of the State, and the principal lines of work are closely related to the problems peculiar to the regions involved.

Cooperation with the School of Agriculture

Under the terms of a memorandum of understanding between the School of Agriculture and the Station, a number of teachers in the School of Agriculture are carrying cooperative projects of research on the Station, and certain research workers from time to time lecture to classes in the school of Agriculture.

Cooperation with the Graduate School

In cooperation with the Graduate School members of the Agricultural Experiment Station Staff offer the following graduate courses, which are described under the respective departments of instruction.

Agricultural Economics 571, 572. Methods of Research. (2-4).

Animal Husbandry 571, 572. Wool and Mohair Research. (3-4).

Animal Husbandry 573, 574. Research in Animal Breeding.

Biology 571, 572. Research in the Physiology of the Cotton Plant. (2-4). Chemistry 571, 572. Special Topics in the Chemistry of Animal Nutrition.

Chemistry 573, 574. Special Topics in the Chemistry of Animal Nutrition. (2-6).

Genetics 571, 572. Research in Cotton Breeding.

Publications

The reports, bulletins, and circulars issued by the Station System are distributed without charge to farmers and stockmen and other citizens of Texas. Because of limited funds available for printing, it is necessary to practice strict economy in the distribution of these publications. All requests should be sent to The Director, Texas Agricultural Experiment Station, A. and M. College of Texas, College Station, Texas.

THE ENGINEERING EXPERIMENT STATION

F. E. GIESECKE, Director

The Texas Engineering Experiment Station was organized in 1914 for the purpose of assisting in the industrial development of Texas; of investigating engineering and industrial problems; and of disseminating information relating thereto.

The Engineering Experiment Station staff is selected from time to time from the teaching force of the following departments of the College, according to the particular projects under investigation.

Agricultural Engineering

Architecture

Chemical Engineering

Civil Engineering

Electrical Engineering

Engineering Research

Geology

Mechanical Engineering

Municipal and Sanitary Engineering

Petroleum Engineering

Physics

Textile Engineering

The heads of these departments constitute the Advisory Council of the Engineering Experiment Station.

Thirty-nine bulletins have been issued. So long as the supply lasts, bulletins are distributed free, except in a few cases in which a small charge is made.

For copies of bulletins or for other information, address Texas Engineering Experiment Station, A. and M. College, College Station, Texas.

THE EXTENSION SERVICE

O. B. MARTIN, Director

The Extension Service is a Federal-State-County educational activity for country people. It has headquarters at the A. and M. College of Texas and is administered by the Board of Directors of the College and the President. Though it carries the information uncovered by research and taught at the College to every section of the State, the Extension Service is in no sense an organized correspondence course for rural citizens. Through 185 county farm demonstration agents and 121 county home demonstration agents, assisted by an administrative and specialist staff of about 50 persons located at the College, the Extension Service seeks to re-make country life in Texas by developing a growing number of thinking, self-reliant citizens capable of

improving farms and homes, and the other institutions of civilization dependent upon them. This department also supervises, in cooperation with Prairie View Normal and Industrial College, a similar work for negroes with a supervisory staff of two men and one woman and a field force of about 46 agents.

To bring this about men and women, boys and girls are aided in working out for themselves demonstrations in better ways of doing farm tasks, managing the farm or home business, and of developing the desire for and means of obtaining better standards of living. Records are kept of progress and results of these demonstrations and their effect is spread near and far by farm and home meetings, tours, news stories, and exhibits. The demonstration is a means to an end, and one success leads to another as the demonstrator develops. His own efforts, guided by the extension worker, carry him through the successive steps of "profit, comfort, culture, influence and power." It is believed that in the process of filling the State with these demonstrators, that is, educated persons, most of the serious difficulties that beset agriculture will be overcome.

The authority for this work is found in the Smith-Lever Act of Congress of 1914, the terms of cooperation between the State and the United States Department of Agriculture having been accepted by the Texas Legislature in May, 1914, and continued since then without interruption. The Act of Congress grew out of the earlier Farm Demonstration Work begun in Texas in 1903 by Dr. Seaman A. Knapp through the United States Department of Agriculture.

The Federal and State funds expended through the College for the employment of county farm and home demonstration agents are matched by the county commissioners' courts or other local organizations, these local bodies paying from one-half to two-thirds the salaries of agents. Nearly every agricultural county in Texas now has the services of one or both of such agents.

Farm demonstration work aims at economic production, better land utilization, and the facilitation of economic distribution through improved quality and standardization of farm and ranch products. The work of farm demonstration agents is directed by nine district agents assisted by fifteen specialists.

Home demonstration work deals with feeding the family cheaply and healthfully, increasing the family income by gardening, dairying, poultry keeping and home industries, and with raising farm life to higher levels of comfort and culture through improvements in the farm home, economical and appropriate clothing, and better living standards. Home demonstration agents are supervised by nine district home demonstration agents and special assistance is given by eight specialists.

In any effort at rural rehabilitation the rising generation must be given special consideration. Years are gained by starting young people on progressive careers as demonstrators, and their youthful successes should lead to lifelong development as well as stimulate adults to greater effort. For this reason boys' and girls' 4-H club work has for twenty years been an important part of extension work. The boys are helped by their respective farm demonstration agents in profitable farm, crop, and livestock demonstrations, and the girls by home demonstration agents in demonstrations with farm poultry, dairy, gardening, clothing, canning, and home and yard improvement.

In addition to these services rendered through local extension agents, aid of a more general character is rendered citizens over the State through direct correspondence, news stories, bulletins, the Extension Service Farm News, and occasional special help by nearby county agents or by staff members. The Extension Service also assists indirectly by helping other organized efforts in special fields such as cooperative marketing, grading and standardization, pure seed and stock, improved farm building.

The Extension Service, creature of Congress and the Texas Legislature, guided by the A. & M. College of Texas, aims to make rural Texas and rural Texas life strong, prosperous and beautiful in this generation. Its plan of self help is now available to nearly 400,000 of the State's 475,000 farms and ranches. Some member of the farm family on more than 100,000 farms is now enrolled as a demonstrator.

THE TEXAS FOREST SERVICE

E. O. SIECKE, Director

Forestry activities in Texas were initiated by an act of the thirty-fourth Legislature. In accordance with the law the Director has supervision over all forest interests and matters pertaining to forestry within the jurisdiction of the State. He is charged with the duty of enforcing all laws pertaining to the protection of forests and woodlands, preventing and extinguishing forest fires, collecting data relative to forest conditions, and cooperating with counties, towns, corporations, and individuals in preparing plans for the protection, management and replacement of trees, wood lots and timber tracts.

The State is authorized to accept gifts of land to be used to demonstrate the practical utility of timber culture, water conservation and as refuges for game. The Board of Directors has the power to purchase lands in the name of the State, suitable chiefly for the production of timber, as State Forests, using for such purpose any special appropriations or any surplus money not otherwise appropriated which may be standing to the credit of the State forestry fund. Two State Forest areas, comprising 3,334 acres, have been purchased through legislative appropriations made for that purpose. A third State Forest of 2,360 acres, containing eight million feet of merchantable pine timber, was obtained in 1925, through legislative act transferring jurisdiction from the Prison Commission to the Texas Forest Service. A fourth

State Forest of 600 acres was acquired in 1929 through a gift from Mr. John Henry Kirby of Houston. The income from this forest is to go to the Ex-Students' Association of A. and M. College to be used as a student loan fund. Two of the State Forests are now under administration for the purpose of demonstrating reforestation and the proper management of timber lands.

For the current year \$64,805.00 of State funds and \$41,855.00 of Federal funds are available for carrying on the designated activities of the office. The personnel comprises 7 technical foresters, 4 inspectors, 40 patrolmen, 8 lookout men. 11 smokechasers, and 113 forest guards.

DIVISION OF FOREST PROTECTION

This division has charge of activities relating to the protection of timber from fire, insects and diseases. Division headquarters are at Lufkin, which is centrally located as regards the timber section of Texas.

DIVISION OF FOREST MANAGEMENT

The administration of the State Forest areas and the various research and demonstration projects pertaining to methods of reforestation and management fall in this division. It also has charge of the cooperation extended to the owners of large tracts of timber land who desire to initiate forestry practices on their holdings.

DIVISION OF FARM FORESTRY

Under the terms of memorandum of understanding between the Extension Service and the Texas Forest Service, farm forestry activities are conducted on a cooperative basis. The field of farm forestry includes educating and encouraging farmers to practice proper forest management in the timbered portion of the State and the encouragement of tree planting for protection and utility purposes by the farmers in the treeless portions of Texas.

PUBLICATIONS

Twenty-two bulletins have been issued, dealing with practically all phases of forestry, and in addition, a large number of forestry circulars have been prepared and published. Requests for forestry publications should be addressed to Director, Texas Forest Service, College Station, Texas.

OFFICE OF THE STATE ENTOMOLOGIST .

F. L. THOMAS, State Entomologist

By act of the Legislature the entomologist of the Texas Agricultural Experiment Station is ex-officio State Entomologist and is charged with enforcing the law of the State relative to diseases of bees. This law provides for the protection of honey bees against foulbrood and other contagious diseases and empowers the State Entomologist to issue regulations as may be necessary to control, eradicate or prevent the introduction, spread or dissemi-

nation of diseases of honey bees, as far as may be possible. The regulations that have been issued prohibit the moving or shipping of bees across county lines without proper authority, provide for quarantining apiaries where disease may be found, make it unlawful to keep bees in hives or boxes not possessing movable frames, and prohibit the treatment of American foulbrood except by permission of the State Entomologist.

Inspectors from this office examine about thirty-five thousand colonies a year in protecting the beekeeping industry in Texas.

In the biennial reports which are published as circulars of the Texas Agricultural Experiment Station, much information is presented for the benefit of beekeepers, as well as reports on the progress of the work.

FERTILIZER CONTROL SERVICE

G. S. FRAPS, State Chemist

The chemist of the Texas Agricultural Experiment Station is designated by law as State Chemist, and has charge of the enforcement of the fertilizer law. Under his direction fertilizers are inspected, sampled for analysis, the samples analyzed and the results published as bulletins of the Experiment Station. It is also the duty of the State Chemist to investigate the composition, properties, and agricultural values of fertilizers, and of fertilizer materials and to conduct experiments relative to the value of fertilizers. Such investigations are being made, and the results published from time to time. The people of the State are furnished with information concerning fertilizers by means of personal letters, bulletins, and otherwise.

Analyses are made of soils, irrigation and domestic waters, and fertilizers, when such analysis would be of public benefit along the line of agricultural chemistry, and when the samples are taken in accordance with the requirements. Persons who desire to secure an analysis should request further information and instructions for sampling, as samples must be properly taken if the analysis is to have any value. The State work occupies all the time and attention of the staff, so that it is not possible to accept private work.

Analyses of feeding stuffs for the Feed Control Service, and chemical investigations of their composition and properties, are also made by the Division of Chemistry of the Agricultural Experiment Station.

SUMMER SESSION

C. H. WINKLER, Director

The Summer Session consists of two terms of six weeks each. The 1932 Summer Session opens Tuesday, June 7, and closes Saturday, August 27. Students may enroll for the full session or for either term.

The purposes of the Summer Session are:

- 1. To provide teachers and others denied the privilege of attending College during the regular session an opportunity to pursue courses for college credit.
- 2. To give students of the College and others an opportunity to shorten their college course by doing summer school work.
- 3. To offer those qualified to pursue graduate work an opportunity for study in courses leading to the Master of Science degree.
- 4. To provide opportunity for professional improvement through short courses of highly specialized character in certain trades and professions, such as, cotton classing; industrial education; cotton oil mill operators; firemen; graduate veterinarians; and farmers' short course.

Practically all departments of the College are open to students in the Summer Session. Detailed announcements of all the courses will be issued about the first of April. For Summer School catalogue and other information address Director of the Summer School, or the Registrar, College Station, Texas.

Part VI

REGISTER OF STUDENTS

GRADUATE STUDENTS

MAJOR STUDY

	Civil Engineering	Waco
B.S., A. & M. College Allison, Ulmont Sterling	Agricultural Engineering	Bryan
	Architecture	College Station
	Chemical Engineering	Dale
	Geology	Dallas
	Genetics	College Station
Blumberg, Albert Asa	e Teachers College, 1928. Mathematics	College Station
B.A., University of Tex Bortle, Frank Edward	kas, 1929. Electrical Engineering	
	Entomology	College Station
	Civil Engineering	College Station
	n Geology	Pinewood, S. C.
	Electrical Engineering	
Byrd, Jas. Cozby	of Texas, 1931. Architecture f Pennsylvania, 1922.	College Station
Cabaniss, wimani Gordon	Agronomy	Mathis
B.S. Texas College of . Camp, Hubert Lionell	Arts and Industries, 1931 Mathematics	Bryan
M.A., University of Ok Carpenter, James Andrew	Accounting and Statistics	Dallas
B.S., A. & M. College of Chao. Hsu-Yung	Chemical Engineering	Changsha, China
M.S., University of Illin Cheatham, James Charles.	Mechanical Engineering	Bryan
B.S., Clemson College, Coneway, Charles Richard	1923. Architecture	Friona
B.S., A. & M. College of Conway, Joseph Hendrix, J.	of Texas, 1931. r Economics	Bryan
B.A., A. & M. College Couch, James Russell	of Texas, 1931 Genetics	
B.S., A. & M. College of	f Texas, 1931. Rural Sociology	
B.A., A. & M. College o	f Texas, 1931.	

Dixon, Ben Azie	Agronomy	vaughn, Miss.
B.S., A. & M. College of M. Dobbins, Traber Norman	Entomology	Bay Springs, Miss.
B.S., A. & M. College of M. Dorrough, Owen	Poultry Husbandry	Clarksville
B.S., Sam Houston State T Dorsey, Ralph Robert	Teachers College, 1923. Rural Education	Fort Worth
B.S., A. & M. College of To Dunkle, Paul Burton	Genetics	Denton
B.S., A. & M. College of Tex Ellis, Clyde Virgil	Mechanical Engineering	Wichita Falls
Fern, G. H	Industrial Education	College Station
B.S., A. & M. College of T Fletcher, Robert Kemble	Genetics	College Station
A.B., University of Maine, I Ph.D., Ohio State University Follett, George Henry	1917. y, 1928.	Hanneton
B.S., A. & M. College of To	exas. 1931.	
Frank, M. P	Civil Engineering	College Station
B.S., A. & M. College of T Gaines, J. C., Jr.	Genetics	Bryan
M.S., Alabama Polytechnic Giffen, Emmett Donald	Institute, 1926. Chemical Engineering	
B.S., A. & M. College of To Givens, Harrison C.	exas, 1931. Civil Engineering	
B.S., A. & M. College of T Hampton, Jodie Vestal	Yexas, 1929. Poultry Husbandry	Naples
B.S., East Texas State Teac Harlan, Herman Voss	hers College, 1931. Civil Engineering	
B.S., A. & M. College of Te Harris, Edward James	exas, 1931. Rural Sociology	Bryan
B.A., 1917, B.D., 1929, Sou Haupt, Lewis McDowell, Jr.	thern Methodist University	
B.S., A. & M. College of T Hirons, Ray Acklam	Marketing and Finance	Pharr
B.A., A. & M. College of T Howell, Eugene Jody	'exas, 1931. Economics	College Station
B.S., A. & M. College of T Jones, David Cluie	exas. 1922.	
B.A., Emory College, 1908. Jones, Robert Steele	,	
B.S., A. & M. College of Te Kaiser, George B.	exas, 1930. Electrical Engineering	Wharton
B.S., A. & M. College of T Kerns, Albert H.	exas, 1928. Electrical Engineering	
B.S., Kansas State Agricult Lander, Raphael Heber	ural College, 1926. Rural Education	Dallas
B.S., A. & M. College of To Laney, Jack Eugene	exas, 1931. Chemical Engineering	
B.S., A. & M. College of Te Latta, James Edwin	Chemical Engineering	
B.S., A. & M. College of To Long, Wayne E	exas, 1931. Mechanical Engineering	
D.S., A. & M. College of T	exas, 1341.	

McGee, Roger V.	Mathematics	Bryan
B.S., A. & M. College of T		
Marrs, Cecil Douglas		College Station
B.S., A. & M. College of Tex	as (to be awarded June, 1932).	Callian Charles
Martin, Albert Dow		College Station
A.B., Texas Christian Univer Milliff, John Henry	Biology	Crockett
B.S., A. & M. College of Te	exas, 1931.	Callaga Station
Mitchell, John Weems	Mathematics	Conege Station
Mitchell, Ralph Howard	Rural Education	College Station
B.S., A. & M. College of T Moehlman, C. B.	exas, 1927.	Druge
B.S., A. & M. College of Te		Dryan
Montford, Peter Thorp	Agricultural Engineering	College Station
B.S., A. & M. College of T. Morgan, William Edgeworth	Fexas, 1921.	College Station
B.S., A. & M. College of Te	Economics	College Station
Nahas, Jack Nicholas	Flectrical Engineering	Reaumont
B.S., A. & M. College of Te	exas. 1931.	
North, Harvey Steinle	Chemical Engineering	San Antonio
B.S., A. & M. College of Te	exas. 1931.	
Nowotony, Berthold Eugene		New Braunfels
Orr, Joseph Anderson	Civil Engineering	Bryan
Owen, Corbin Ransom	Agronomy	. Magnolia, Ark.
B.S., A. & M. College of Te	Electrical Engineering	Chalmers, Ind.
B.S., Purdue University, 192 Pinson, Robert	Industrial Education	Corpus Christi
B.S., A. & M. College of Te	exas. 1931.	-
Quinby, John Roy	Genetics	Bryan
B.S., A. & M. College of Tex	xas, 1924.	0 !! 0 !!
Reid, Andrew Forest		. College Station
B.S., A. & M. College of Te	exas, 1931. Capatics	Kula
Richmond, Thomas Rollin B.S., A. & M. College of Te	1021	Kyle
Rowland, Marvin Thompson	Civil Engineering	Houston
B.S., A. & M. College of Te	xas 1930.	
Senter, Simon Richard	Agronomy	Lamesa
B.S., Texas Technological Co	ollege, 1930.	
Sessions, Hugh		Wells
B.S., A. & M. College of Te Siecke, Paul	Chemical Engineering	College Station
B.S., A. & M. College of Te Snyder, Silas Drew	xas, 1931. Agricultural Engineering	College Station
B.S., Iowa State College, 193	15.	
Staples, Charles Henry B.S., Louisiana State Univer	Dany Husbandry B	aton Kouge, La.
Stewart, Heber Thomas	Agricultural Engineering I	Poplarville, Miss.
B.S., A. & M. College of Te Trail, James Arthur	xas, 1931. Mechanical Engineering	Brvan
B.S., A. & M. College of T		

Vantine, J. T., Jr Agronomy Quanah
B.S. A. & M. College of Texas, 1931. Walker, Ray Agronomy Wolfe City
B.S., A. & M. College of Texas, 1931. Ward, Robert Page Electrical Engineering Bryan
B.S., A. & M. College of Texas, 1924. White, George Nelson Rural Education Amherst
B.S., San Marcos State Teachers College, 1928. Wingren, Roy Matthew
Yun, Sang Won Chemistry E-chun, Gang Won Prov. Korea A.B., Southwestern, 1931.

UNDERGRADUATE STUDENTS

ABBREVIATIONS

RE-Rural Education

Sci-Science

Agr—Agriculture	Sci—Science
AgEd-Agricultural Education	TE-Textile Engineering
AgEng-Agricultural Engineering	VM-Veterinary Medicine
Arch—Architecture	-
CE-Civil Engineering .	C-Two-year Course in Agriculture
ChE—Chemical Engineering	CM-Two-year Course in Cotton Market-
EE-Electrical Engineering	ing and Classing
IAE-Industrial Arts Education	
IE-Industrial Education	4—Senior
LA-Liberal Arts	3—Junior
Land-Landscape Art.	2—Sophomore
ME-Mechanical Engineering	1—Freshman
	Sp-Special
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	*
Abney, Cary M., 3 AA Marshall	Alexander, William Oram, 4 LABryan
Abu-Dabbeh, Naim Mohamed, 4 Agr	Allen, Carl Jones, Jr., 2 EEWebster
Jaffa, Iraq.	Allen, Harry Elbridge, 1 EESan Antonio
Ackenhausen, John Robert, 2 ChE, Dallas	Allen, Joseph Linn, Jr., 2 ChEAxtell
Adair, Sterling Wood, 1 PPEBrenham	Allen, Percy Doyle, 1 LandKosse
Adams, Irby Ray, 3 AgEd Commache	Allen, William Gideon, 3 PPE,Dallas
Adams, Julius John, 3 CE Ferris	Allen, William James, 2 PPEGroveton
Adams, Leon Milton, 3 ChE Waco	Altgelt, Franz Herman, 4 ME
Adams, Thomas Alvie, Jr., 3 CE Bryan	New Braunfels
Adcock, Maldon Vollmer, 3 EE Houston	Amos, Charles M. Jr., 3 CEBay City
Addicks, Gilbert Reinhart, 3 AALaGrange	Anderson, Crittenden H. C., 4 Land
Aden, James Douglas, 1 AgrJasper	
	Dallas
Adwany, Ramchandra Khushaldas, 1 EE	

Akre, Edward Olson, 4 EE

Mexico City, Mexico
Alamia, Alfonso Joseph, 3 EE
Edinburg
Alanis, Daniel C., 2 LA
Ennis
Albert. Reece Kieth, 2 CE
Albrecht, Arthur Bobbie, 1 ME
Yoakum
Albrecht, William Charles, Jr., 2 PPECanadian

AA-Agricultural Administration

Agr—Agriculture

BryanBryan ...Webster n AntonioAxtellKosse ...Dallas .Groveton Braunfels .. Bay City Anderson, Crittenden H. C., 4 Land Anderson, Clair Jackson, 2 ME Lawn Anderson, Edmond Alexander, 1 AA..... Anderson, Malcolm Marshall, 2 CE Lawn Anderson, Robert Jewell, Jr., 2 VMMarshall Andrews, Clarence Lorin, 2 CE Bryan
Andrews, Leldon Lee, 2 LA Bryan
Andrews, Verne Cook, 3 Agr Bryan
Andrews, Wilton Wayland, 3 CE Andrus, George Loran, 2 VMGalveston
Angus, Richard Hull, 1 ChEDallas
Appelt, Weldon Ferdinand, 2 EEHalletsville Appendini, Mario, 1 LAHalpam, Mexico Apple, Spencer Butler, Jr., 2 AgrDonna Archibald, Stanley Benjamin, SpAgr
Terre Haute, Indiana
Arisco, Charles Vincent, 1 ChE Port Arthur

Arnett John Milhorne 3 CE San Antonio	Raeden William Wimbich 1 EE Groecheck
Anna Transad Transa 9 CTC Com Antonio	Dasden, William William, I DE
Arno, noward Leroy, a CE San Antonio	Bassett, Edwin Leign, & REwacc
Arnett, John Milborne, 3 CE San Antonio Arno, Howard Leroy, 3 CESan Antonio Ash, Clark William, 1 ME	Batjer, Attwell Linton, 3 PPEHouston
Ashby, Gerald K., 2 ChE	Batier, John Francis, 3 ME
Evansville, Indiana	Basden, William Wimbish, 1 EEGroesbeck Bassett, Edwin Leigh, 3 REWacc Batjer, Attwell Linton, 3 PPEHoustor Batjer, John Francis, 3 MEHoustor Batts, Joseph Woodyard, 1 AgrBryan
Ashcraft, Charles Lester, 2 MEBryan	Baucum, Archie Winford, 3 PPE
	Daucum, Areme Winitin, 5 11 12
Askins, Jack W. Jr., 1 MEDallas	Groveton
Aston, Joseph Alexander, Jr., 2 CE Farmersville	Baushausen, Henry Vincent, 1 EE Marlin
Farmersville	Bayless, Bennett Smith, 2 AAHillsbord Bayless, Clark Hunt, 2 AAHillsbord Bean, John Thomas, 1 Agr
Aston, James William, 3 CEFarmersville	Rayless Clark Hunt 2 AA Hillshore
Athing James Don O Ann Duran	Dayless, Clark Hulle, 2 222
Atkins, James Roy, 2 AgrBryan	Bean, John Thomas, I Agr
Austin, Samuel Thomas, 3 AgrFt. Worth	Fort Hancock
Austin, Tom Sikes, 4 PPEHouston	Roand Charles Rindwall & Land
Austin, Tom Sikes, 4 PPEHouston Ayers, William Walter, 1 Arch	Beard, Ira Lee, 3 LA Fort Worth Beard, Ira Lee, 3 LA Fort Worth Beard, Rufus Arch, 1 Agr Thorndale Beard, William Hayner 4 Arch Calveston
Carrizo Springs	Reard Ira Lee 3 LA Fort Worth
Rear Los John 1 FF. Wasa	Pound Puring Auch 1 Age Thorndale
Baar, Leo John, 1 EEWaco	Deard, Rulus Alcii, I AgiIndinuale
Bachus, William Earl, 1 EETemple	
Backloupe, Joseph Jennings, 3 ChE	Bearden, Harold James, 1 EEHouston
Ennis	Beasley, James Otis, 4 AgrWells
Bacon, Earl Irwin, 4 AgrStephenville Bader, Madero Norman, 4 VMGalveston	Beasley, William Howard, Jr., 1 EE Dallas
Radon Madona Norman 4 VM Calveston	Pashbar Odia Poland 1 I A Port Arthur
Dader, Madero Norman, 4 VMGaiveston	Becknam, Ouis Roland, 1 DA of the Attitude
Badgett, James Roscoe, I CEDenison	Beckham, Odis Roland, 1 LAPort Arthur Bednar, Williar Carr, 2 PPE
Badgley, Abe Sedell, 1 LAGoose Creek	Chickasha, Oklahoma
Badgley, Babe Sedebs, 1 LAGoose Creek	Bednarek, Frank, 1 AgrSchulenburg
Baggett, Andy Lee, 4 Agr Ballinger	Beeson, Charles Edward, 4 Agr
Badgley, Babe Sedebs, 1 LA Goose Creek Baggett, Andy Lee, 4 Agr Ballinger Bagley, Tom Bittle, 4 ChE College Station Bahme, Nathan, 3 ChE Waco	Bednarek, Frank, 1 Agr
Dohmo Mother 9 Cht	Dall Hanny Francis 9 DDF Dant Author
Danine, Nathan, & OREWaco	Ben, Henry Francis, & FFE PORT Arthur
baney, haroid Thomas, I LA	Bell, Lutner Edward, 4 CEHereford
Corpus Christi	Bell, Robert Allen 1 EEHereford
Bailey, Lloyd Francis, Jr., 1 Agr	Bellamy, Walter Dwight, 2 CE Mission
Palestine	Reloate Charles Felix 2 PPE San Antonio
Rain Sam 1 Age Contamilla	Denovides Alfonso Nichanor 1 Auch
Bain, Sam, 1 AgrCenterville	
Baker, Altus Gratz, 3 LAAbilene	Laredo
Baker, Charles Porter, 2 ChEParis Baker, Denzil Laval, 3 LAMathis	Benbrook, Paul, 1 LAFairfield
Baker, Denzil Laval, 3 LAMathis	Bender, John Jacob, 2 AAHouston
Dolon Fruing Andrew 1 Age Doling	Benke, May Lee, 4 EESan Antonio
Baker, Ewing Andrew, 1 Agr Boiling Baker, Everard Winchester, 2 ME College Station Baker, Herbert Henry, 4 Agr Somerville Baker, Ivey Maurice, 4 LA Houston Baldorary Carlo 2 FF Collegator	Benke, May Lee, 4 EESan Antonio Benke, Russell Louis, 1 EESan Antonio
College Station	Donnett Coorgo Dolmon & ME Dollar
Delege Mark House 4 Am Control	Bennett, George Palmer, 3 MEDallas Bennett, Robert Leslie, 2 AgrDecatur Bentley, William Carey, 2 ChELufkin
Daker, nerbert menry, 4 AgrSomerville	Bennett, Robert Leslie, 2 AgrDecatur
Baker, Ivey Maurice, 4 LA Houston	Bentley, William Carey, 2 ChELufkin
Baldassari, Carlo, 3 EEGalveston	Benz, Morris, 4 LandPort Arthur
Baldassari, Carlo, 3 EE	Bergendahl, John Lawrence K., 3 PPE
Ball, Ralph Eugene, 1 ArchBryan	San Antonio
Ball, Urban H., 4 IAEYoakum	Bering, August Charles III, 1 ChE Houston
Dallis Dured Desert To 1 ME	Dennig, August Charles III, I Offe Houston
Balthis, Russel Forest, Jr., 1 ME	Berndt, Edgar, 2 EEBellville
College Station	Berrong, Robert Weldon, 1 Agr
Barbeck, Arthur Herman, Jr., 1 ChE	Fort Worth
San Antonio	
Barfield, Roy Arthur, 2 EEWesthoff Barfield, Rue Edward, 1 SciPort Arthur Bargmann, George, 2 AAGonzales	Besse, Celestine Paul, 3 CE Ennis Bianchi, Theodore Jacob, 3 ME Dallas Biggs, Aubrey R., 2 ChE Luling Biles, John Louis, 4 ChE Big Spring
Rarfield Rue Edward 1 Soi Port Author	Rianchi Theodore Jacob 2 MF. Delles
Dayamann Cooper 9 AA C	Diane Ankar D 0 ChE Tulina
Dargmann, George, Z AAGonzales	Diggs, Audrey R., Z UntLuling
Barnes, Unaries Craptree, 5 CE	Biles, John Louis, 4 ChEBig Spring
Waxahachie	Bliger, August Francis, 4 MrSherman
Barnes, Jack Arrone, 4 ChEWaco	Billimek, Oscar Louis, 2 CEPoth
Barnes, Thomas Stewart, 1 Sci Port Arthur	Billimek, Oscar Louis, 2 CEPoth Bisbey, Joseph Blackard, 1 IEHouston
Barnes, William D. 1 MEPort Arthur	Dittle Commer Thomas O Ame Factland
Barnett, John Franklin, Jr., 1 CE	Bittle, George Thomas, 2 AgrEastland
Palacios	Black, Hilery Perkins, Sp LABryan
Barnett, Paul Wright, 1 MEHereford	Black, Hilery Perkins, Sp LABryan
	Black, Hilery Perkins, Sp LABryan
Barnett, Robert Lee, 2 AAKarnes City	Black, Hilery Perkins, Sp LABryan
Barnett, Paul Wright, 1 MEHereford Barnett, Robert Lee, 2 AAKarnes City Barnhart, Hugh Franklin, 2 Agr	Black, Hilery Perkins, Sp LABryan
Barnett, Robert Lee, 2 AAKarnes City Barnhart, Hugh Franklin, 2 Agr	Black, Hilery Perkins, Sp LABryan
Barnett, Robert Lee, 2 AAKarnes City Barnhart, Hugh Franklin, 2 Agr	Black, Hilery Perkins, Sp LABryan
Barnett, Robert Lee, 2 AAKarnes City Barnhart, Hugh Franklin, 2 Agr	Black, Hilery Perkins, Sp LABryan
Barnett, Robert Lee, 2 AA	Black, Hilery Perkins, Sp LABryan Black, Lawrence Earl, 4 ArchFt. Worth Blackstone, Ralf Ersel, 1 MEHearne Blackwell, Leslye Tom, 1 LAMercedes Blackwood, Herman Wayne, 1 ChE
Barnhart, Hugh Franklin, 2 Agr Gainesville Barr, Edgar Rolack, Jr., 1 EEGraham Barrett, Charles W. 1 AgrSpur Barron Duane 4 MEKyle	Black, Hilery Perkins, Sp LABryan Black, Lawrence Earl, 4 ArchFt. Worth Blackstone, Ralf Ersel, 1 MEHearne Blackwell, Leslye Tom, 1 LAMercedes Blackwood, Herman Wayne, 1 ChE
Barnhart, Hugh Franklin, 2 Agr Gainesville Barr, Edgar Rolack, Jr., 1 EE Graham Barrett, Charles W. 1 Agr Spur Barron, Duane, 4 ME Kyle Barron, Jack Claude, 3 CE Center	Black, Hilery Perkins, Sp LA
Barnhart, Hugh Franklin, 2 Agr Gainesville Barr, Edgar Rolack, Jr., 1 EE Graham Barrett, Charles W. 1 Agr Spur Barron, Duane, 4 ME Kyle Barron, Jack Claude, 3 CE Center	Black, Hilery Perkins, Sp LA
Barnhart, Hugh Franklin, 2 Agr Gainesville Barr, Edgar Rolack, Jr., 1 EE Graham Barrett, Charles W. 1 Agr Spur Barron, Duane, 4 ME Kyle Barron, Jack Claude, 3 CE Center Barron, John Pinkney, 1 EE Bryan	Black, Hilery Perkins, Sp LA
Barnhart, Hugh Franklin, 2 Agr Gainesville Barr, Edgar Rolack, Jr., 1 EE Graham Barrett, Charles W. 1 Agr Spur Barron, Duane, 4 ME Kyle Barron, Jack Claude, 3 CE Center Barron, John Pinkney, 1 EE Bryan	Black, Hilery Perkins, Sp LA
Barnhart, Hugh Franklin, 2 Agr Gainesville Barr, Edgar Rolack, Jr., 1 EE Graham Barrett, Charles W. 1 Agr Spur Barron, Duane, 4 ME Kyle Barron, Jack Claude, 3 CE Center Barron, John Pinkney, 1 EE Bryan Bartel, Edwin, 4 EE Comfort Bartlett, Roger Frost, Jr., 3 ME Rice	Black, Hilery Perkins, Sp LA
Barnhart, Hugh Franklin, 2 Agr Gainesville Barr, Edgar Rolack, Jr., 1 EE Graham Barrett, Charles W. 1 Agr Spur Barron, Duane, 4 ME Kyle Barron, Jack Claude, 3 CE Center Barron, John Pinkney, 1 EE Bryan Bartel, Edwin, 4 EE Comfort Bartlett, Roger Frost, Jr., 3 ME Rice Barton, Delbert Hamilton, 1 ME	Black, Hilery Perkins, Sp LA
Barnhart, Hugh Franklin, 2 Agr Gainesville Barr, Edgar Rolack, Jr., 1 EE Graham Barrett, Charles W. 1 Agr Spur Barron, Duane, 4 ME Kyle Barron, Jack Claude, 3 CE Center Barron, John Pinkney, 1 EE Bryan	Black, Hilery Perkins, Sp LA Bryan Black, Lawrence Earl, 4 Arch Ft. Worth Blackstone, Ralf Ersel, 1 ME Hearne Blackwell, Leslye Tom, 1 LA Mercedes Blackwood, Herman Wayne, 1 ChE Rosenberg Blair, James Frank, Jr., 1 LA San Antonio Blanchard, Dean Clifton, 1 EE Blanchette, Alwyn Joseph, 4 EE Beaumont

Blodgett, Robert Wayne, 1 MECrane
Blount. Tom Burrus. 1 AASan Augustine
Bobbitt, Edward Haines, 2 AgrHillsboro
Bock, Morris, 3 ChEDallas
East Bernard
Bogevold, Trygve, 3 ArchWaco
Bolar John Wilson 1 PPE Fort Worth
Bolton, Frank Cleveland, Jr., 1EE
Blodgett, Robert Wayne, 1 ME Crane Blodgett, William Serle, Jr., 3 Arch Crane Blount, Tom Burrus, 1 AA San Augustine Bobbitt, Edward Haines, 2 Agr Hillsboro Bock, Morris, 3 ChE Dallas Boettcher, Clemens Carl, 1 Agr East Bernard Bogevold, Trygve, 3 Arch Waco Bohnenkamp, H. G., 4 LA Moulton Bolar, John Wilson, 1 PPE Fort Worth Bolton, Frank Cleveland, Jr., 1 EE College Station Bond, George Albert, Jr., 4 Agr San Angelo Bonvillain, William Charles, 2 IE Houston Boothe, James Eugene, 2 AgEng Dimmitt
Bonvillain, William Charles, 2 IE
Bonvillain, William Charles, 2 1E
Boothe, Walter Lea, 1 ME Sweetwater
Bordages, Elliott Isadore, 4 AABeaumont
Boriskie. Ben Bernard. 1 EE
Boriskie, Theodore Frank, 3 ChEBryan
Bortenstein, Max, 2 ChEGonzales
Boswell, Howard Gilmore, 3 ME, Et. Worth
Bounds, James Thomas, 4 Agr Tehuacana
Bourland, Albert Reece, 4 EE Clarendon
Roydstun William Riley 2 Agr
Clovis, New Mexico
Bradford, William Gordan, 2 ArchDallas
Oklahoma City Oklahoma
Brady, George Myron, 2 EETexas City
Braikovich, Andrew Christopher, 1 EE
Braly F R 4 Sci Rullard
Brandenburg, Robert Ford, 1 Agr Amarillo
Braswell, L. T., 1 AgrJasper
Breazeale, William Griffin, 1 ME, Crockett
Breazeale, William Griffin, 1 MECrockett Breedlove, Homer Morrison, 2 LA
Brendle, Frank William, 2 Arch Houston
Brendle, Raiph C., 1 Arch
Brian, William Thomas, 4 AAYoakum
Bridges, James Simmons, 4 AgEd Bryan
Bridges, Orville Dial, 4 ME San Antonio
Bright, Marion Lewis, 2 PPE Houston
Brightwell, Hugh Archie, 1 ME Needville
Brin, Philip, 2 LATerrell
Brinsmade, Harold Steenbock, 2 LA
Breedlove, Homer Morrison, 2 LA Smithville Brendle, Frank William, 2 Arch Houston Brendle, Ralph C., 1 Arch Dallas Brennen, Larry Lawrence, 1 ME Somerville Brian, William Thomas, 4 AA Yoakum Bridges, James Simmons, 4 AgEd Bryan Bridges, Orville Dial, 4 ME San Antonio Briggs, Burnham Pembroke, 4 ChE Pampa Bright, Marion Lewis, 2 PPE Houston Brightwell, Hugh Archie, 1 ME Needville Brin, Philip, 2 LA Terrell Brindley, Robert Mace, 1 AA Harlingen Brinsmade, Harold Steenbock, 2 LA Mexico City, Mexico Brinsmade, Robert Turgot, 2 LA Mexico City, Mexico Briscoe, Roy Allen, 2 AgEng Devine
Briscoe, Roy Allen, 2 AgEngDevine
Broad Gardner Sayles 1 AA Brady
Brock, C. Glenn, 3 AgEdEastland
Brockett, Ernest Delwin, Jr., 2 PPE
Mexico City, Mexico Briscoe, Roy Allen, 2 AgEng
Brogdon, Ralph Chandler, 1 EEBryan
Brooks, Marshall Edward, 3 ChEFt. Wort
Brooks, Morris Hart, I CE
Brown, George Claude, 1 MESomerville
Brown, John Hall, 3 Arch

Brown, Robert Garland, 2 ChE ... Ft. Worth Brown, Raymond Kenneth, 4 ME ... San Antonio Bryan, Cecil Sherrill, 2 ME Dublin Bryan, Frank Louis, 3 ChE Dublin Bryan, William Jennings, 4 Agr Robstown Bryant, Allen Estes, 2 AgrCorsicana Bryant, Elmer Maurice, 2 PPE Port Arthur Bryant, Richard Cummings, 2 ME .. Laredo Buchanan, Kenneth St. Clair, 1 ChE Buchtien, Ernest William, 2 AgEng Bellville
Buckman, Thomas Robert, 4 CE Ft. Worth
Bueno, Placido Oscar, 1 Arch
Monterrey, Mexico Burleson, Richard Earl, 1 AgrMart Burns, Edward Hughes, 3 PPEHouston Burns, Joshua Ambrose, 2 ChE ..Ft. Worth Burns, Joshua Ambrose, 2 ChE Ft. Worth Burton, Felix Johnathan, 2 Agr ...Kirbyville Burton, James Gordon, 2 PPE ...Cleburne Burton, Morris Sheppard, 3 EE ...Tyler Busch, Henry Will, 2 EESulphur Mines, Louisiana Bush, Joe Kerr, 1 ArchDallas Byrd, John Samuel, 1 AgrMesquite Byrd, Willie Murphy, 2 AgrColorado Byrnes, George Handley, 4 EE San Antonic Caddess, James Hervey, 4 MEWinona, Misssissippi Cain, Verne Y., 1 CEForest Hill Caldwell, William Henry, 1 AgrGarland Calfee, Marion Randolph, 1 EEAbilene Callaway, George Denton, 1 ChEGulf Calvert, Mont Granderson, Jr., 2 Sci Eagle Lake Canuteson, Alvin Clarence, 1 ME ... Clifton Caraway, Archie Edwin, 2 IAE ... Lufkin Caraway, C. M., Jr., 4 Agr ... De Leon Carhart, Rufus Chamberlain, 4 CEGreenville Carleton, Robert Earl, 1 EE Bryan Carlisle, Emmett Adams, Jr., 1 AAKaufman Carlisle, Thomas Gustav, 2 TE ... Blackwell Carmichael, Wiley Enoch, 4 CEDenton

Brown, Leonard Doctor, Jr., 2 PPE

Carnahan, John Newton, 2 CM	Connally, Wilson Albert, Jr., 1 EE
Carpenter, George Edward, 4 ME Houston Carpenter, Louis Linder, 3 ChE Denison	Connelley, Robert Edwin, 1 AgEd
Carpenter, Louis Linder, 3 ChEDenison	Fort Worth
Carroll, Jim Magill, 2 EE Denton Carter, Alfred Allen, 2 ME Houston	Connor, Earl Mathew, 2 Land Houston
Carter, Alfred Allen, 2 MEHouston	Connor, Earl Mathew, 2 LandHouston Conoley, Odel Maurice, 1 AAAmarillo Conrad, Fred Walter, 4 AAHouston
Carter, Benjamin Frederick, 2 PPE	Conrad, Fred Walter, 4 AAHouston
Shreveport, Louisiana	Conway, Ervin Bradbury, 2 LABryan
Carter, Odis, 1 CE El Paso Carter, Tiller E. 4 AgEdLuling	Cook, Arthur Lee, 1 LA College Station Cook, Foy Oscar, 3 AALampasas
Carter, Theodore Thomas, 2 Agr	Cook George Perry Jr. 3 CE Houston
Leakesville, Miss.	Cook, George Perry, Jr., 3 CEHouston Cook, Lawrence Milton, 4 ArchDallas
Cartwright, George Anderson, 1 LA	Cook, Marion, Z EEJosephine
Galveston	
Cary, Orland Raymond, 1 LASnyder	Cook, Robert Geron, 1 CEParis
Cash, Harvey, Jr., 3 EE	Coop, Claude, Moray, 1 VM San Antonio
Lake Charles, Louisiana	Cook, Roy Franklin, 3 Agr
Castle Theodore Clark 2 FF Houston	Cooper Sam Thomas 1 AgEng Dallas
Castro, A. O., 2 Agr	Cooper, William Charles, 2 MEAustin
Caswell, James Edward, 1 ArchDallas	Cooper, Winfred Wallace, 1 ChELockney
Chamberlin, Prentice Carroll, Jr., 1 Sci	Corbett, Dennis John M., 2 ChEGalveston
Port Arthur	
Chandler, Athos Nelson, 1 ME Galena Park Chandler, Bert Swift, 1 LASan Antonio	El Reno, Oklahoma Corey, Milford B., 4 IEGirard, Illinois Corman, Nathan Oscar, 4 ChEDallas
Changler, Bert Swift, I LASan Antonio	Corey, Milford B., 4 IEGirard, Illinois
Chancy, James Harold, 1 MEAbilene	Cornelius, William Paschal, 4 ArchBowie
Chanowsky, Joe, 1 AABryan Chapman, Jay Lowe, 3 ArchLockhart Charske, Charles Johnson, 2 MEDallas	Cornell, Drew. 1 PPEEbano, Mexico
Charske, Charles Johnson, 2 MEDallas	Cornell, Martin Clifford, 2 EEDallas
Chazanow, Morris, 1 MEWaco	Cornett, John Beaumont, 3 EEWaco
Chazanow, Morris, 1 MEWaco Chenault, Harvey Lee, 4 MESnyder	Corns, Isaac Cox, 4 AAHarlingen
Cherry, Horace Heston, 1 ME Dallas Christian, Archie Hunt, 4 CE Malakoff Christian, Gideon Lawrence, 4 CE Abilene	Cotter, Robert Paul, 1 MESan Antonio Cottingham. Ira Allen, 1 ME San Antonio Cotton, Richard Howard, 4 AgrAbilene Couch, Weldon Morris, 1 VMGrandview
Christian, Archie Hunt, 4 CEMalakoli	Cottingham, Ira Allen, I ME San Antonio
Christian Jack Pegues, 4 LAAbilene	Couch Weldon Morris 1 VM Grandview
Clark, Eugene B., 1 CEMexia	Coulter, Charles Allinder, 3 LA
Clark, Jack Gilbert, 2 ME Dawson	San Antonio
Clarke, John Horace, 1 CE	Coultrup, James George, Jr., 2 PPE
Clay, John Vollmer, 1 EEHouston	Houston
Clement, Fred McKemie, 4 PPEArdmore, Oklahoma	Council, Wilbur Allen, I AgrMercedes Cowden, Wright Elliott, I LAMidland
Clennin, Ralph William, 2 EEHereford	Cox Carroll Wayland 1 Agr Ruda
Cleveland, Tom Kelley, Jr., 1 PPEDallas	Cox, Carroll Wayland, 1 AgrBuda Cox, Dewitt Christopher, 4 AgrLampasas
Clinkenbeard, Allen Lynn, Jr., 2 EE	Cox, George Walter, 1 CESan Antonio
	Cox, Luther Benton, 1 MEHouston
Closner, John James, 1 MEEdinburg	Cox, George Walter, 1 CE San Antonio Cox, Luther Benton, 1 ME Houston Cox, Roy Edward, 1 Sci Temple Coym, Wilfred, 1 CE Canadian
Cobb, Curtis Lee, 2 Agr Bryan Cochran, William Benjamin, 1 ME Houston Cockrell. Joseph Elmore, 1 ChE Dallas Cohn, Albert Arthur, 3 ChE Dallas Coke, William Broughton, 4 Agr	Craddock, Truman Dubois, 2 Agr Burnet
Cockrell Joseph Elmore 1 ChE Delles	Craig, Norman William, 2 Land
Cohn. Albert Arthur. 3 ChE Dallas	Cramer, Alan Campbell, 1 ChE
Coke, William Broughton, 4 Agr	Cramer, Alan Campbell, 1 ChEPharr
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Coleman, Glenn Winfred, 2 Agr McKinney	Crass, Clinton William, 4 EEPalestine Craven, James David, 1 EELaredo
Coleman, Myram Arlyn, 1 ChECatarina Coleman, Spruiell Hunter, 3 EE	Cravens, James David, 1 EELaredo Cravens, James Wade, 3 CEAnna
Grand Prairie	Crawford, Raymond Colbert, I LA Palestine
Colglazier, Elmer William, 3 PPE	Crisler, James Seymour, 1 CE San Antonio
Sen Antonio	Criswell, Herschell Holloway, 1 Land
	Marlin
Collie, Morris Wilson, 4 CEPecos	Crockett, Curtis Chelcie, 3 MEDenton
Collier, Robert Bailey, Jr., 4 ME Houston	Crockett, Orville, 2 MEDenton
Colliey, Richard Stewart, 2 Arch Yoakum Collie, Morris Wilson, 4 CE Pecos Collier, Robert Bailey, Jr., 4 ME Houston Collins, Howard Taft, 1 CE Port Arthur Collins, James Albert, 1 PPE Calvert Collins, Warren Linton, 1 CM Tylertown, Mississippi Coltrin Robert Barnett 4 Arch Gelyseton	Cross, Robert Calvin, 1 Agr
Collins. Warren Linton, 1 CM	Mooringsport, Louisiana
Tylertown, Mississippi	O
Coltrin, Robert Barnett, 4 Arch Galveston	Crow, Barney Melvin, 3 EEBeeville
Coltrin, Robert Barnett, 4 ArchGalveston Colvin, Earl Edwin, 1 LABryan Colvin, Warner Edwin, 2 AgrSagerton	Crow. John William, 1 JAE Milford
Colvin, Warner Edwin, 2 AgrSagerton	01011, 00111
	Crozier, Joseph Bailey, 3 CE Cleburne
Commons, Glenn Gurney, 3 ME Mercedes	Crozier, Joseph Bailey, 3 CECleburne Crozier, Pete Fay, 4 IAEFort Worth
Commons, Glenn Gurney, 3 MEMercedes Comnas, George Demetrie, 2 ChECuero	Crouch, Elton Reith, 1 Agr

Cunningham, Claude Leon, Jr., 1 ChE	Diggs, Melvin Moore, 1 LAWeslac Dillingham, Mike Callahan, 1 PPE
Cunningham, Henry Elvidge, 4 EE	Fort Wortl
Fort Worth	Dillon, Joe Earl 3 LADalla
Cunningham, John Dave, 2 AgEd Saint Jo	Dinwiddie, Rondeau Border, 1 AATulia
Cunningham, Jordan Lowry, 3 PPE	Dipuccio, Charles Albert, 4 PPEGalveston
Cunningham, John Preston, 1 Agr	Dixon, James Wilfrid, 2 MEPalestin Dobbs, Emmett Watkins, 3 AgrAralestin Doche, Armand Madden, 2 MEAmarill Dodd, Ivan Francis, 3 EEForester, Ark Dodson, Jeth Wesley, 4 EEDurant, Okla Dodson, Palph Lordon 1 CF.
Cunningnam, John Preston, I Agr	Dobbs, Emmett Watkins, 3 AgrGrandviev
	Docne, Armand Madden, 2 MEAmarille
Curry, Lee, 1 LandBrenham Curry, Tom Sherrod, Jr., 4 CEEl Paso Curtis, Auburn Reuben, 1 AgrSpearman	Dodgon Loth Worldy A FF Durant Okla
Curtis Auburn Reuben 1 Agr Spearman	Dodson, Ralph Jordan, 1 CEDecatu
Curtis, William Mark, 4 Arch,	Doerge, Charles Herbert, 4 AABryan
Covington, Oklahoma	Dollahite, James Walton, 3 VM
Curtsinger, Eugene Bomba, 2 EEDallas	Johnson City
Cuttings, Richard Henry, 2 AA Desdemona	Dollinger, Francis Oliver, 1 PPE, Beaumon
Daeuble, Louis, Jr., 4 ArchEl Paso	Domingue, George Clifford, 2 LA
Dagner, Charles William, 1 ChE	Port Arthu
Matagorda Matagorda	Donalson, Thomas Kyle, 4 AgrAustin
Dahl, Warren Curtis, 1 MEHouston Dahlgren, Carl Arvid, 4 MEFort Worth Dahlman, Terrell Ludwig, 3 AgEng	Donoho, Harold Finis, 1 LA Sabina Dooley, Thomas, 1 ME
Dahlman Tarrell Ludwig 2 Ageng	Dorman Coorgo Madison 4 Age
Cuero	College Station
Dalehite, Terry Raymond, 1 SciGalveston Dalton, Cecil Odus, 2 AA, Blazon, Wyoming	Dorman, Harvey Smith, 4 Agr
Dalton, Cecil Odus, 2 AA, Blazon, Wyoming	College Station
Dameron, Zech Clifton, 4 AgrDel Rio	Dougherty, Allen Augustus, 1 EE Palestin
Dameron, Zech Clifton, 4 AgrDel Rio Damon, Earl Burtran, 2 AAHouston	Douglas, LaRheu Jackson, 1 CE Moran
Danforth, Joe Jeff, 2 LABryan	Douglas, LaRheu Jackson, 1 CE Morar Downard, Richard Walter, Sp IAE .Bryan
Dannelly, Perry, 4 CEBryan	Downs, Jesse Santord, I Mr. Marshal
Danquard, Earnest Gerard, 1 SciTemple Davidson, Harrold Willis, 1 LA San Marcos	Downs, Thomas Hampton, 1 LA
Davidson, Harrold Willis, I LA San Marcos	San Augustine
Davidson, John King, 1 CEEagle Lake Davidson, Sam Norris, 1 CEEagle Lake	Doyle, Jack Franklin, 3 Arch Brownwood
Davies Alfred Ingram 2 AA Rowie	Doyle, John Wadsworth, 1 AAFt. Worth Draper, George Henry, 2 Ag EdLorans
Davis, Curnie Meredith. 2 LAMertens	Draper, Milton Crawford, 2 EE Kingsville
Davis, Charles Whatley, 3 EEKaufman	Drees, Charles Francis, 2 EEHouston
Davies, Alfred Ingram, 2 AABowie Davis, Curnie Meredith, 2 LAMertens Davis, Charles Whatley, 3 EEKaufman Davis, Daniel Rowland, 4 Agr, Mt. Pleasant	Draper, Milton Crawford, 2 EE
Davis, George Winzer, 4 Agr San Antonio	Invingstor
Davis, Jack, 1 AgrWaxahachie Davis, John Barnes, 1 EEFort Worth	Drury, Mason Fletcher, I SciHarlinger
Davis, John Barnes, 1 EEFort Worth	Drushell, William Haley, 2 PPEEdna
Davis, James Francis, 1 ChEWaco	Dryden, Edward Marseille, 1 MERobstown
Davis, James Trice, 4 AgrMarfa Davis, Lyn Earl, 3 CEDallas	Dryden, Joseph William, 2 AA Robstown
Davis Vernon Clynn 4 AA Dallas	DuBois, Samuel Max, 1 CESanta Anna
Davis, Vernon Glynn, 4 AADallas Davis, Walter Edward, 4 LAFt. Worth	DuBois, Wilburn, Jr., 1 CE Santa Anna
Davis, William Gordon, 1 Arch, Sweetwater	DuBois, Wilburn, Jr., 1 CE Santa Anna Dugan, Haynes Webster, 1 LA
Davison Burt Infforgon 1 MF Coope Creek	Shreveport Louisiana
Dawson, Oran, 4 AgEdCrockett	Duhon, Robert Earl, 3 PPESour Lake
Day, Dorman Denver, 1 EEDallas	Dunn, George Wandelohon, 2 AA Shermar
Dawson, Oran, 4 AgEd Crockett Day, Dorman Denver, 1 EE Dallas Dean, Jeff William, 1 Agr Lamesa Decker, Jack G., 2 ME Mission Dees, Allen Dewitt, 3 EE Kaufman Delaney, Ralph Jerry, 4 LA Smithville Polary Hugh Rob. 3 AA	Dunten, Ralph Lovett, 3 EE Dallas DuPree, James Allen, 2 AA Houston DuPree, James E., 4 EE San Antonio
Decker, Jack G., Z MEMission	DuPree, James Allen, Z A Houston
Deleney Reinh Jerry A I.A Smithville	Durrenberger, John Moore, 1 Arch
Delery, Hugh Bob, 3 AAHouston	Houstor
Delleney, Burton L., 2 EEDenton	Durst, Horatio, III, 3 PPECrockett Dworkin, Max Marvin, 3 ChE .Ft. Worth
Del Valle, Alejandro Suero, 2 C	Dworkin, Max Marvin, 3 ChEFt. Worth
Brownsville	Farnart, Fred. Jr., 4 AA Houston
Dempwolf, Charles Martin, 1 ChE, Cleburne	Early, Allen McIntire, 2 LA Waco
Denison, Raleigh Edmond, 3 CETemple	Easley Edwin Dean, 1 AgrDetroi Easley, Gilbert Carlos, 4 MERosebuc
Denman, Morris Samuel, 4 CEBrownwood	Easley, Gilbert Carlos, 4 MERosebuc
Denman, Tom Edgar, Jr., 4 AgEd	Eason, Clark Brantly, 1 ArchLindale Eaton, Charles Barthold, 4 EE, Weatherford
Dennis Edwin Curtis 1 Agr Robstown	Eddins, Curtis Ramsey, 1 IAEMarlin
Dennis, Edwin Curtis, 1 AgrRobstown Dent, George Marshall, 3 ArchTexas City	Eddy, James Richard Bowling, 3 EE
Detzel, Jack, 2 MEVickery	College Station
DeWeese, Louis Weatherby, 2 ChE Paris	Edelman, Joe, 2 ChETyle:
DeWeese, Louis Weatherby, 2 ChE Paris Dickey, Calvin Arthur, 3 EECleburne	Edenborough, Rudyard Kipling, 2 Agr
Dickinson, James Edward, 2 AgrGonzales	White Dee
Dickson, Fielding Breeden, 2 ChE	Edgar, James Douglas, 4 AACuer
Diehl, Hugo Henry, 4 MESan Antonio Dierksen, Raymond William, 1 AA, Shiner	Edge, John Harold, 2 SciBryan
Dieni, Hugo Henry, 4 ME San Antonio	Edge, Paul William, Jr., 2 LAJewet Edmonds, Frank Rogers, 2 ChEDublin
Dierksen, Raymond William, I AA, Shiner	Edmonds, Frank Rogers, 2 UnEDublin

Eeds, Fred, 4 MEBryan	Fichtner, Courtney William, 4 AA
Eeds, Robert Anson, 3 PPEBryan	Fichtner, Russell Wedeking, 2 LA
Eeds, Walter Leary, 1 ArchLockhart	Fichtner, Russell Wedeking, 2 LA
Effenberger, Ewald Joseph, 1 CE Shiner	San Antonio
Eghert Ford 4 CE Waco	Fields, Mario William, 1 SciAmarillo
Eichelberger, David McFadden, 3 LA	Fields, Walter Smallwood, 4 PPEIrving
	Filizola, Umberto Daniel, 2 LA
Eidson, John Rushell, Jr., 2 CEHamilton Eikel, Ernest Ogden, 1 ChENew Braunfels	San Antonio
Eikel, Ernest Ogden, 1 ChE New Braunfels	Fincke, Melvin Fred, 1 ME San Antonio
Eitt, George Dan, 1 AgrSan Antonio Elder, Frank, Jr., 4 EEKilgore Elder, Thomas Jefferson, Jr., 4 Agr	Findley, O. J. Horton, I M.EMarshall
Elder, Frank, Jr., 4 EEKilgore	Fink, Carl, 1 AgrKerrville
Elder, Thomas Jefferson, Jr., 4 Agr	Finkelstein, Leon, 2 MEHouston
Decatur	Fink, Carl, 1 Agr Kerrville Finkelstein, Leon, 2 ME Houston Finkenburger, Fred Bernard, 1 Sci Houston
Eldridge, Lawrence Miller, Jr., 2 CEGulf	Finn, Alfred Charles, 2 ArchHouston
Elkins, Rollin Lafayette, 3 LAPalestine	Fiol, Pedro Celestine, 4 Agr
Ellingson, Jack, 1 EESherman Ellington, Bernard Osburn, 4 PPE	Santiago, Cuba
Ellington, Bernard Osburn, 4 PPE	Fischer, Arthur Charles, 2 Agr Cuero Fischer, Harry Louis, 4 CE Houston Fisherman, Henry, 1 VM Big Spring Fisk, Aubry Blanchard, 1 EE Houston Fitte, John Maria, 4 VM
Shelbyville	Fischer, Harry Louis, 4 CEHouston
Elliott, Andrew Carnegie, 3 Sci Pilot Point	Fisherman, Henry, I VMBig Spring
Elliott, Donald, 3 ArchKeller	Fisk, Aubry Blanchard, 1 EEHouston
Ellis, F. P., Jr., 4 CEWaxahachie	Fitte, John Maria, 4 VM
Ellisor, Lewis Owen, 4 AgrWillis	New Orleans, Louisiana
Emerson, Charles Abbott, Jr., 1 ChE, Dallas	ritz, Diimas vernon, 4 Unr. Marquez
Emery, Arthur Mac., Jr., 3 LADallas	Fitzgerald, William Edward, 1 ME
Elliott, Andrew Carnegie, 3 Sci. Pilot Point Elliott, Donald, 3 Arch. Keller Ellis, F. P., Jr., 4 CE Waxahachie Ellisor, Lewis Owen, 4 Agr Willis Emerson, Charles Abbott, Jr., 1 ChE, Dallas Emery, Arthur Mac., Jr., 3 LA Dallas Emery, Charles Culberson, 1 PPE Dallas Emigh, Walter Ellsworth, 4 ME	Shreveport, Louisiana Fitzgerald, Zeb Hilton, 3 CESan Marcos
Emigh, Walter Ellsworth, 4 ME	Fit gerald, Zeb Hilton, 3 CESan Marcos
Elizabeth, Louisiana	Fitzhugh, Henry Allen, 3 AgrTolar
Engelbrecht, Andrew Otto, 2 ME	Fix, George Joseph, 4 MEDallas
English, Clifford Wade, 4 EE Dallas Erath, George Edwin, 1 Agr Spur Erickson, Herman Clarence, 2 ChE	Fitzhugh, Henry Allen, 3 GE San Marcos Fitzhugh, Henry Allen, 3 Agr Tolar Fix, George Joseph, 4 ME Dallas Flannery, William Waring, 3 La
English, Chifford Wade, 4 EEDallas	Sali Alitolilo
Erath, George Edwin, 1 AgrSpur	Fleischmann, Carlos Semlinger, 2 Sci
Erickson, Herman Clarence, 2 ChE	Charlotte
Erisman, Robert Elmore, 1 VMFt. Worth	Flood, Joseph Hugh, 4 EE
Erisman, Robert Elmore, I VMFt. Worth	Florenting Ctarling Warth C. MR
Ernest, Hugo, 4 EE	riorentine, Sterling Worth, Sp ME
Erskine, James Christian, 3 MESeguin - Erwin, Marvin Edward, 2 ChECharlotte	College Station
Frehenburg Flygod Harry 1 AA GI:	Flores, Luis Fernando, 2 Arch
Eschenburg, Elwood Henry, 1 AAShiner	Flournoy, Charles Hilton, 4 MEJasper
Estes, Harney, Jr., 4 TEGrandbury Ethridge, Milburn Levi, 1 AgrMoody	Floyd, Carlos Blair, 4 EEDallas
Eubank Hill Carton In 1 FF Wass	Floyd, William Christopher, 1 Agr
Eubank, Hill Carter, Jr., 1 EEWaco Eubanks, Claude Reavis, 2 Agr	Abilene
	Flukinger, George Lee, 1 AgrHempstead
Evans, Claud Mack, 3 CE Lamesa Evans, Joreph Earl, 1 AA Lamesa Evans, Rufus Hern, 2 EE Jewett Evans, Robert James, 1 ChE, Wichita Falls	Fly, Frank Merriman, Jr., 4 CE Gonzales
Evans, Jorenh Earl 1 AA Lamesa	Flynn, James Paul, 1 PPE Port Arthur
Evans, Rufus Horn, 2 EE Jewett	Focke Robert Cordel 4 AA Calvecton
Evans, Robert James, 1 ChE, Wichita Falls	Foley, James Walling, 4 PPE Dobbin Foote, Vincent Alan, 2 EE San Antonio
Evans, Raymond Scott, 1 PPE	Foote, Vincent Alan, 2 EE San Antonio
San Antonio	Ford, Oliver Edwin, 3 ME Crockett
Evans, William Thurman, 3 EE Corsicana	Ford, Oliver Edwin, 3 ME Crockett Fortenberry, Duthiel Wynn, 4 Agr
Faber, Damon Charles, 1 PPE	Oakvale, Miss.
West Columbia	Fortenberry, James Claude, 1 ChE
Fair, Russell Valentine, 1 Agr	71
	Zavalia
Belvidere, Illinois	Fortson, Eugene Palmer, Jr., 4 CE
Fairbanks, George Hofford, 2 FF Dallas	Fortson, Eugene Palmer, Jr., 4 CE
Fairbanks. George Hofford, 2 EEDallas Falk, Milton, 4 ChETyler	Fortson, Eugene Palmer, Jr., 4 CE
Fairbanks. George Hofford, 2 EEDallas Falk, Milton, 4 ChE	Fortson, Eugene Palmer, Jr., 4 CE
Fairbanks. George Hofford, 2 EEDallas Falk, Milton, 4 ChE	Fortson, Eugene Palmer, Jr., 4 CE College Station Foster, Frank, 4 ChE Electra Foster, John Edward, 1 CE Laredo Fowler, Edwin Odell, 1 Agr Ft. Worth
Fairbanks. George Hofford, 2 EE Dallas Falk, Milton, 4 ChE Tyler Farber, Leonard. 2 CM Denver, Colorado Farley, John William, 2 AgEd Dublin Faulk, Walter, Joe. 4 ChE Minden, La	Fortson, Eugene Palmer, Jr., 4 CE College Station Foster, Frank, 4 ChE Foster, John Edward, 1 CE Laredo Fowler, Edwin Odell, 1 Agr Fowler, Irvin Malcolm, 1 Agr Sabinal
Fairbanks. George Hofford, 2 EE Dallas Falk, Milton, 4 ChE Tyler Farber, Leonard, 2 CM Denver, Colorado Farley, John William, 2 AgEd Dublin Faulk Walter Joe, 4 ChE Minden, La. Faulkner, Ellis P., 1 Sci Whitney	Fortson, Eugene Palmer, Jr., 4 CE College Station Foster, Frank, 4 ChE Foster, John Edward, 1 CE Laredo Fowler, Edwin Odell, 1 Agr Fowler, Irvin Malcolm, 1 Agr Sabinal
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Fairbanks. George Hofford, 2 EE Dallas Falk, Milton, 4 ChE Tyler Farber, Leonard, 2 CM Denver, Colorado Farley, John William, 2 AgEd Dublin Faulk Walter, Lee, 4 ChE Minden, La. Faulkner. Ellis P., 1 Sci Whitney Faust, Clarence McClain, 1 LA Marshall Faust, William Robert, 3 CE Comfort	Fortson, Eugene Palmer, Jr., 4 CE College Station Foster, Frank, 4 ChE Electra Foster, John Edward, 1 CE Laredo Fowler, Edwin Odel, 1 Agr Ft. Worth Fowler, Irvin Malcolm, 1 Agr Sabinal Fowler, Kenneth Clarence, 1 EE Rankin Frachizeur, Edgar Reese, 3 EE Brownwood
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Fairbanks. George Hofford, 2 EE Dallas Falk, Milton, 4 ChE Tyler Farber, Leonard, 2 CM Denver, Colorado Farley, John William, 2 AgEd Dublin Faulk, Walter Jee, 4 ChE Minden, La. Faulkner, Ellis P., 1 Sci Whitney Faust, Clarence McClain, 1 LA Marshall Faust, William Robert, 3 CE Comfort Feagin, Frank Joe, 2 EE Kaufman Ferguson, Charles Winston, 1 Sci Broom	Fortson, Eugene Palmer, Jr., 4 CE College Station Foster, Frank, 4 ChE Electra Foster, John Edward, 1 CE Laredo Fowler, Edwin Odel, 1 Agr Ft. Worth Fowler, Irvin Malcolm, 1 Agr Sabinal Fowler, Kenneth Clarence, 1 EE Rankin Frachizeur, Edgar Reese, 3 EE Brownwood Francis, Charles Alfred, 1 EE Houston Franklin, George Mack, 2 Arch Abilene
Fairbanks. George Hofford, 2 EE Dallas Falk, Milton, 4 ChE Tyler Farber, Leonard, 2 CM Denver, Colorado Farley, John William, 2 AgEd Dublin Faulk, Walter Jee, 4 ChE Minden, La. Faulkner, Ellis P., 1 Sci Whitney Faust, Clarence McClain, 1 LA Marshall Faust, William Robert, 3 CE Comfort Feagin, Frank Joe, 2 EE Kaufman Ferguson, Charles Winston, 1 Sci Broom	Fortson, Eugene Palmer, Jr., 4 CE College Station Foster, Frank, 4 ChE Foster, John Edward, 1 CE Foster, Laredo Fowler, Edwin Odel, 1 Agr Fowler, Irvin Malcolm, 1 Agr Fowler, Kenneth Clarence, 1 EE Rankin Frachizeur, Edgar Reese, 3 EE Brownwood Francis, Charles Alfred, 1 EE Houston Franklin, George Mack, 2 Arch Fowler, Milliam Floyd, 4 LA Douglas Franklin, William Floyd, 4 LA Douglas Franklin, Milliam Floyd, 4 LA Douglas
Fairbanks. George Hofford, 2 EE Dallas Falk, Milton, 4 ChE Tyler Farber, Leonard, 2 CM Denver, Colorado Farley, John William, 2 AgEd Dublin Faulk, Walter Jee, 4 ChE Minden, La. Faulkner, Ellis P., 1 Sci Whitney Faust, Clarence McClain, 1 LA Marshall Faust, William Robert, 3 CE Comfort Feagin, Frank Joe, 2 EE Kaufman Ferguson, Charles Winston, 1 Sci Broom	Fortson, Eugene Palmer, Jr., 4 CE College Station Foster, Frank, 4 ChE Foster, John Edward, 1 CE Foster, Laredo Fowler, Edwin Odel, 1 Agr Fowler, Irvin Malcolm, 1 Agr Fowler, Kenneth Clarence, 1 EE Rankin Frachizeur, Edgar Reese, 3 EE Brownwood Francis, Charles Alfred, 1 EE Houston Franklin, George Mack, 2 Arch Fowler, Milliam Floyd, 4 LA Douglas Franklin, William Floyd, 4 LA Douglas Franklin, Milliam Floyd, 4 LA Douglas
Fairbanks. George Hofford, 2 EE Dallas Falk, Milton, 4 ChE Tyler Farber, Leonard. 2 CM Denver, Colorado Farley, John William, 2 AgEd Dublin Farlk, Walter Jee, 4 ChE Minden, La. Faulkner. Ellis P., 1 Sci Whitney Faust. Clarence McClain, 1 LA Marshall Faust. William Robert. 3 CE Comfort Feagin, Frank Joe, 2 EE Kaufman Ferguson, Charles Winston, 1 Sci Bryan Ferguson, Henry Bismarck, 2 EE Linares, Mexico Fergusen, Jack Newton, 1 EE El Paso	Fortson, Eugene Palmer, Jr., 4 CE College Station Foster, Frank, 4 ChE
Fairbanks. George Hofford, 2 EE Dallas Falk, Milton, 4 ChE Tyler Farber, Leonard, 2 CM Denver, Colorado Farley, John William, 2 AgEd Dublin Farils, Walter Jee, 4 ChE Minden, La. Faulkner. Ellis P., 1 Sci Whitney Faust, Clarence McClain, 1 LA Marshall Faust, William Robert, 3 CE Comfort Feagin, Frank Joe, 2 EE Kaufman Ferguson, Charles Winston, 1 Sci Bryan Ferguson, Henry Bismarck, 2 EE Linares, Mexico Ferguson, Jack Newton, 1 EE El Paso Ferguson, Samuel Ben, 1 EE Leonard	Fortson, Eugene Palmer, Jr., 4 CE College Station Foster, Frank, 4 ChE
Fairbanks. George Hofford, 2 EE Dallas Falk, Milton, 4 ChE Tyler Farber, Leonard, 2 CM Denver, Colorado Farley, John William, 2 AgEd Dublin Farils, Walter Jee, 4 ChE Minden, La. Faulkner. Ellis P., 1 Sci Whitney Faust, Clarence McClain, 1 LA Marshall Faust, William Robert, 3 CE Comfort Feagin, Frank Joe, 2 EE Kaufman Ferguson, Charles Winston, 1 Sci Bryan Ferguson, Henry Bismarck, 2 EE Linares, Mexico Ferguson, Jack Newton, 1 EE El Paso Ferguson, Samuel Ben, 1 EE Leonard Fermier, George Franklin, 4 ME	Fortson, Eugene Palmer, Jr., 4 CE College Station Foster, Frank, 4 ChE
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Fairbanks. George Hofford, 2 EE Dallas Falk, Milton, 4 ChE Tyler Farber, Leonard, 2 CM Denver, Colorado Farley, John William, 2 AgEd Dublin Farils, Walter Jee, 4 ChE Minden, La. Faulkner. Ellis P., 1 Sci Whitney Faust, Clarence McClain, 1 LA Marshall Faust, William Robert, 3 CE Comfort Feagin, Frank Joe, 2 EE Kaufman Ferguson, Charles Winston, 1 Sci Bryan Ferguson, Henry Bismarck, 2 EE Linares, Mexico Ferguson, Jack Newton, 1 EE El Paso Ferguson, Samuel Ben, 1 EE Leonard Fermier, George Franklin, 4 ME	Fortson, Eugene Palmer, Jr., 4 CE College Station Foster, Frank, 4 ChE Foster, John Edward, 1 CE Foster, Laredo Fowler, Edwin Odel, 1 Agr Fowler, Irvin Malcolm, 1 Agr Fowler, Kenneth Clarence, 1 EE Rankin Frachizeur, Edgar Reese, 3 EE Brownwood Francis, Charles Alfred, 1 EE Houston Franklin, George Mack, 2 Arch Fowler, Milliam Floyd, 4 LA Douglas Franklin, William Floyd, 4 LA Douglas Franklin, Milliam Floyd, 4 LA Douglas

Frazier, Tom, Jr., 2 CE
Frobese, Joe Cade, 1 Agr
Fuentes, Hector, 2 AgrSaltillo, Mexico Fulbright, Voyce Daniel, 3 CEStephenville
Fulcher, Elmer Lee, 1 IE Mineola Fuller, Robert William, 2 CE
Fuller, Robert William, 2 CE San Antonio Fuller, Theodore A., 3 PPE Bryan Fultz, Kelton Benton, 1 Agr Montgomery Gainey, Elmer Carl, 1 Arch Abilene Gaither, George Harrison, 1 AA Brenham Galbreath, Floyd Lee, 1 EE Houston Galloway, William Caldwell, 2 ME Corsicana Gambrell, Arlus Lee, 4 Agr Farmersville Gandy, Winton Howard, 1 Agr Gantt, Richard Rayburn, 2 Sci San Antonio Garbade, Lonnie Gilbert, 4 Agr Flatonia
Gambrell, Arlus Lee, 4 Agr Farmersville Gandy, Winton Howard, 1 Agr
Gantt, Richard Rayburn, 2 Sci
Garbade, Lonnie Gilbert, 4 Agr. Flatonia Garbade, Percy Herbert, 1 AAShiner Garcia, Anastasio Gonzales, 2 CE Hebbronville
Garcia, Virgil Anthony, 4 SciSan Benito Gardner, Felix Edwin, 2 PPEPort Arthur Gardner, Lynan Spencer, 2 LAWaco Garnett, James Lezlie, Jr., 1 Sci
Garrard, William Lash, 1 METyler Garrett, Charles Ignac, 1 SciSchulenburg Garrett, Wayne Holmes, 1 ChEFt. Worth Garvey, Robert Eugene, 2 AgrLivingston Garza, Oswaldo Jose, 1 ChE
Garza, Rodolfo M., Jr., 3 Arch
Gaston, John Emery, 3 Land Henderson Gates, John Joseph, 4 LA
Gerlach, Charles Jacob, Jr., 1 AA
Gerlach, Louis Frederic, 1 AALivingston Germany, William Neely, 2 Arch
Gershovitz, Joe Benjamin, 2 ChE
Gandy, Winton Howard, 1 Agr Gantt, Richard Rayburn, 2 Sci San Antonio Garbade, Lonnie Gilbert, 4 Agr. Flatonia Garbade, Percy Herbert, 1 AA Shiner Garcia, Anastasio Gonzales, 2 CE Hebbronville Garcia, Virgil Anthony, 4 Sci. San Benito Gardner, Felix Edwin, 2 PPE Port Arthur Gardner, Lynan Spencer, 2 LA Waco Garnett, James Leslie, Jr., 1 Sci Brownwood Garrard, William Lash, 1 ME Tyler Garrett, Charles Ignac, 1 Sci. Schulenburg Garrett, Wayne Holmes, 1 ChE Ft. Worth Garvey, Robert Eugene, 2 Agr. Livingston Garza, Oswaldo Jose, 1 ChE Monterrey, Mexico Garza, Rodolfo M., Jr., 3 Arch Monterrey, Mexico Gaston, John Emery, 3 Land Henderson Gates, John Joseph, 4 LA Houston Gearreald, Tull Neal, 2 AA Stephenville Gebhart, Julius C., 3 ChE Dallas Gensberg, Aaron, 3 ME Big Spring George, Woodrow, 1 Arch Ardmore, Okla. George, William Kellum, 1 Agr. Waco Gerdes, Alfred Michael, 2 PPE Galveston Gerdes, Gilbert Henry, 2 AgEng Hallcitsville Gerlach, Charles Jacob, Jr., 1 AA Livingston Germany, William Neely, 2 Arch San Antonio Gershovitz, Joe Benjamin, 2 ChE Hillsboro Gershovitz, Walter Lewis, 3 AA Hillsboro Gibbs, Asa Ben, 3 EE Beaumont Gibbs, Joseph Weldon, 4 ME Rosebud Gibson, James William, 1 AAR Kaufman Gideon. Conon, 1 AgEd Gibert Archol Bernard, 2 EE College Station Giesen, Carl August, 1 Agr. New Braunfels Gilbertt, Phil'sp Pierce, 3 Arch Port Arthur Gilbreath, Woodrow Wilson, 1 ME Hereford

Cililland Nowton Bornard 1 ME
Gililland, Newton Bernard, 1 ME
C'11 I D 1 CLE Poris
Gill, James R., I Cherais
Gill, William Doyle, 4 CEBellevue
Gillespie, Robert Williamson, 1 AgEng
Allevton
Cilliand Inch Allicon 1 FF Coinceville
Gilliand, Jack Allison, I EE Gamesvine
Gilmore, William Anderson, Z Arch wace
Gilpin, Woodrow Wilson, 1 CE Turlington
Glass, Donald Campbell, 3 ME San Antonio
Class Emmett Vivian Jr., 1 Arch
Sweetwater
Ci T. V. C 1 DDF
Glenney, Julius George, I FFE
San Antonio
Goforth, Allen Preston, 3 AgrTolar
Golasinski Andrew Adolph, 4 IAE
Houston
Calcainski Ion Aloy 9 CF Houston
GUIASINSKI, JOE AIEX, Z CHIIOGSCOL
Goldberg, Jacob Gilbert, 3 PPE
San Antonio
Golenternek, Joe, 4 ChETyler
Goode, Benjamin Halbert, 4 EEBertram
Goode Jack Reagan 1 LA Resumont
Coods Ogen Ponicin 1 AA Olean
Goode, Oscar Rankin, I MA
Goodman, Richard Allen, 4 VM
Wichita Falls
Goodnight, Herbert Franklin, 3 ME
Quanah
Conduight Dishard Homen & AgEd
Goodingitt, Itichard Homer, o right
nonand
Goodrich, Thomas Battle, 3 LAMarin
Goodwin, John Milton, 3 EECorsicana
Gorycki, Loius John, 1 IAEBryan
Gosch Lenert Charles 4 AgEd Austin
Cett Warren Carrell 1 I A Clyde
Cattle Danismin Manual 9 ChE
Gottheb, Benjamin Manuel, & Chr
Corsicana
Govie, Earnest, 2 Agrmenaru
Grady, James Thomas, Jr., 2 EE
Gorle, Earnest, 2 Agr Grady, James Thomas, Jr., 2 EE Brownwood Graham. John Robert, Jr., 3 SciDallas Grant, Frank Weir, Jr., 3 CE
Grady, James Thomas, Jr., 2 EE Brownwood Graham, John Robert, Jr., 3 Sci Dallas Grant, Frank Weir, Jr., 3 CE Shreveport, La.
Gorle, Earnest, 2 Agr Grady, James Thomas, Jr., 2 EE Brownwood Graham. John Robert, Jr., 3 Sci Dallas Grant, Frank Weir, Jr., 3 CE Grasham, James Anthony, 1 Agr
Grady, James Thomas, Jr., 2 EE Brownwood Graham. John Robert, Jr., 3 Sci Dallas Grant, Frank Weir, Jr., 3 CE Shreveport, La. Grasham, James Anthony, 1 Agr Warren, Ariz.
Grady, James Thomas, Jr., 2 EE Brownwood Graham. John Robert, Jr., 3 Sci Dallas Grant, Frank Weir, Jr., 3 CE Shreveport, La. Grasham, James Anthony, 1 Agr Warren, Ariz. Graves. Francis Marion, 2 ChE Ft. Worth
Grady, James Thomas, Jr., 2 EE
Grady, James Thomas, Jr., 2 EE Brownwood Graham. John Robert, Jr., 3 Sci Dallas Grant, Frank Weir, Jr., 3 CE Shreveport, La. Grasham, James Anthony, 1 Agr Warren, Ariz. Graves, Francis Marion, 2 ChE Ft. Worth Graves, Henry Lee, Jr., 3 LA Corsicana
Gorle, Earnest, 2 Agr Grady, James Thomas, Jr., 2 EE
Grady, James Thomas, Jr., 2 EE Brownwood Graham, John Robert, Jr., 3 Sci Dallas Grant, Frank Weir, Jr., 3 CE Shreveport, La. Grasham, James Anthony, 1 Agr Warren, Ariz. Graves, Francis Marion, 2 ChE Ft. Worth Graves, Henry Lee, Jr., 3 LA Corsicana Gray, Joseph Thomas, 1 ChE Eastland Gray, Joseph Thomas, 1 ChE Marquez
Grady, James Thomas, Jr., 2 EE
Grady, James Thomas, Jr., 2 EE Brownwood Graham. John Robert, Jr., 3 Sci Dallas Grant, Frank Weir, Jr., 3 CE Shreveport, La. Grasham, James Anthony, 1 Agr Warren, Ariz. Graves, Francis Marion, 2 ChE Ft. Worth Graves, Henry Lee, Jr., 3 LA Corsicana Gray, Joseph Thomas, 1 ChE Eastland Grayon. Darwin Bernice, 1 Agr Marquez Greak, William Gerald, 1 Agr Liberty Green, John Henry, 1 LA Marshall
Grady, James Thomas, Jr., 2 EE
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Grady, James Thomas, Jr., 2 EE
Grady, James Thomas, Jr., 2 EE Brownwood Graham. John Robert, Jr., 3 Sci Dallas Grant, Frank Weir, Jr., 3 Sci Dallas Grant, Frank Weir, Jr., 3 CE Grasham, James Anthony, 1 Agr Warren, Ariz. Graves, Francis Marion, 2 ChE Ft. Worth Graves, Henry Lee, Jr., 3 LA Corsicana Gray, Josenh Thomas, 1 ChE Eastland Grayson Darwin Bernice, 1 Agr Marquez Greak, William Gerald, 1 Agr Liberty Green, Rupert Welch, 4 ChE Dallas Green, Rupert Welch, 4 ChE Dallas Greenberg, Zelick, 2 EE Tyler Greer, Sydrey Robert, Jr., 1 AA Greerory, Coston Lee, 4 EE Handley Gregory, John Clifford, 1 LA Tyler Grecory, Robert Philip, 4 CE Ft. Worth Gregory Thomas Mac, 3 CE Dallas Greember, Fred, 2 Agr Pettus Griffin, James William, 4 PPE Harlingen Griffin, Wallis Clyde, 2 EE Kilgore Griffin, Martin William, 1 Land Austin
Grady, James Thomas, Jr., 2 EE Brownwood Graham. John Robert, Jr., 3 Sci Dallas Grant, Frank Weir, Jr., 3 Sci Dallas Grant, Frank Weir, Jr., 3 Sci Dallas Grant, Frank Weir, Jr., 3 Sci Dallas Grasham, James Anthony, 1 Agr Schreeport, La. Graves, Francis Marion, 2 ChE Ft. Worth Graves, Henry Lee, Jr., 3 LA Corsicana Gray, Joseph Thomas, 1 ChE Eastland Grayson Darwin Bernice, 1 Agr Marquez Greak, William Gerald, 1 Agr Liberty Green, John Henry, 1 LA Marshall Green, Rupert Welch, 4 ChE Dallas Greenberg, Zelick, 2 EE Tyler Greeves, Carnie Robert, Jr., 1 AA Beaumont Greeres, Carnie Robert, Jr., 1 AA Beaumont Grectry, Coston Lee, 4 EE Handley Gregory, John Clifford, 1 LA Tyler Gregory, Thomas Mac, 3 CE Dallas Gremmel, Fred, 2 Agr Pettus Griffin, James William, 4 PPE Harlingen Griffin, Willis Clyde, 2 EE Kilgore Griffin, Martin William, 1 Land Austin Griggs, Weldon, 1 Agr Decatur
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Grady, James Thomas, Jr., 2 EE Brownwood Grahm. John Robert, Jr., 3 Sci Dallas Grant, Frank Weir, Jr., 3 Sci Dallas Grant, Frank Weir, Jr., 3 CE Shreveport, La. Grasham, James Anthony, 1 Agr Warren, Ariz. Graves, Francis Marion, 2 Che Ft. Worth Graves, Henry Lee, Jr., 3 LA Corsicana Gray, Josenh Thomas, 1 Che Eastland Grayson. Darwin Bernice, 1 Agr Marquez Greak, William Gerald, 1 Agr Liberty Green, John Henry, 1 LA Marshall Green, Rupert Welch, 4 Che Dallas Green, Eupert Welch, 4 Che Dallas Greeneberg, Zelick, 2 EE Tyler Greer. Sydney Robert, 1 CE Tyler Greeves, Carnie Robert, Jr., 1 AA Grecory, Coston Lee, 4 EE Handley Gregory, John Clifford, 1 LA Tyler Grecory, Robert Philip, 4 CE Ft. Worth Grecory Thomas Mac, 3 CE Dallas Gremmel. Fred, 2 Agr Pettus Griffin, James William, 4 PPE Harlingen Griffin, Martin William, 1 Land Austin Griggs, Weldon, 1 Agr Decatur Gross, Lewis, 3 Che Waco Gross, Lewis, 3 Che Scata Admits
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Grady, James Thomas, Jr., 2 EE Brownwood Graham. John Robert, Jr., 3 Sci Dallas Grant, Frank Weir, Jr., 3 Sci Dallas Grant, Frank Weir, Jr., 3 CE Shreveport, La. Grasham, James Anthony, 1 Agr Warren, Ariz. Graves, Francis Marion, 2 Che Ft. Worth Graves, Henry Lee, Jr., 3 LA Corsicana Gray, Josenh Thomas, 1 Che Eastland Grayson Darwin Bernice, 1 Agr Marquez Greak, William Gerald, 1 Agr Liberty Green, John Henry, 1 LA Marshall Green, Rupert Welch, 4 Che Dallas Green, Eupert Welch, 4 Che Dallas Greeners, Zelick, 2 EE Tyler Greer. Sydrey Robert, 1 CE Tyler Greeves, Carnie Robert, 1 T, 1 AA Grecory, Coston Lee, 4 EE Handley Gregory, John Clifford, 1 LA Tyler Grecory, Robert Philip, 4 CE Ft. Worth Grecory Robert Philip, 4 CE Ft. Worth Grecory Thomas Mac, 3 CE Dallas Gremmel, Fred, 2 Agr Pettus Griffin, James William, 4 PPE Harlingen Griffin, Mallis Clyde, 2 EE Kilgore Griffin, Martin William, 1 Land Austin Griggs, Weldon, 1 Agr Decatur Groos, Jack, 4 Che Houston Gross, Lewis, 3 Che San Antonio Grove, Samuel Edward, 4 VM Ft. Worth
Grady, James Thomas, Jr., 2 EE Brownwood Graham. John Robert, Jr., 3 Sci Dallas Grant, Frank Weir, Jr., 3 Sci Dallas Grasham, James Anthony, 1 Agr Shreveport, La. Graves, Francis Marion, 2 ChE Ft. Worth Graves, Henry Lee, Jr., 3 LA Corsicana Gray, Josenh Thomas, 1 ChE Eastland Grayson Darwin Bernice, 1 Agr Marquez Greak, William Gerald, 1 Agr Liberty Green, John Henry, 1 LA Marshall Green, Henry, 1 LA Marshall Green, Rupert Welch, 4 ChE Dallas Greenberg, Zelick, 2 EE Tyler Greer Sydrey Robert, I CE Tyler Greeves, Carnie Robert, Jr., 1 AA Mond Gregory, Coston Lee, 4 EE Handley Gregory, Coston Lee, 4 EE Handley Gregory, Robert Philip, 4 CE Ft. Worth Gregory Thomas Mac, 3 CE Dallas Gremmel, Fred, 2 Agr Pettus Griffin, James William, 1 Land Austin Griggs, Weldon, 1 Agr Decatur Gros, Jack, 4 ChE Houston Gross, Lewis, 3 ChE Waco Grete, Milton, 2 PPE San Antonio Grove, Samuel Edward, 4 VM Ft. Worth Groves, Joseph Tayor, 3 Agr Leonard
Grady, James Thomas, Jr., 2 EE Brownwood Graham, John Robert, Jr., 3 Sci Dallas Grant, Frank Weir, Jr., 3 Sci Dallas Grant, Frank Weir, Jr., 3 CE Shreveport, La. Grasham, James Anthony, 1 Agr Warren, Ariz. Graves, Francis Marion, 2 Che Ft. Worth Graves, Henry Lee, Jr., 3 LA Corsicana Gray, Joseph Thomas, 1 Che Eastland Grayson Darwin Bernice, 1 Agr Marquez Greak, William Gerald, 1 Agr Liberty Green, John Henry, 1 LA Marshall Green, Rupert Welch, 4 Che Dallas Green, Eupert Welch, 4 Che Dallas Greeneberg, Zelick, 2 EE Tyler Greer. Sydrey Robert, 1 CE Tyler Greeves, Carnie Robert, 1 T., 1 AA Beaumont Greeves, Carnie Robert, 1 LA Tyler Greecory, Coston Lee, 4 EE Handley Gregory, John Clifford, 1 LA Tyler Gregory, Thomas Mac, 3 CE Dallas Gremmel, Fred, 2 Agr Pettus Griffin, James William, 4 PPE Harlingen Griffin, Willis Clyde, 2 EE Kilgore Griffin, Wartin William, 1 Land Austin Grogs, Weldon, 1 Agr Decatur Gros, Jack, 4 Che Houston Gros, Lowis, 3 Che San Antonio Grove, Samuel Edward, 4 VM Ft. Worth Groves, Joseph Tayor, 3 Agr Leonard Gunter, Cecil Edward, 2 ME Buna
Grady, James Thomas, Jr., 2 EE
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Gillespie, Robert Williamson, 1 AgEng Alleyton Gilliland, Jack Allison, 1 EE Gainesville Gilmore, William Anderson, 2 Arch Waco Gilpin, Woodrow Wilson, 1 CE Turlington Glass, Donald Campbell, 3 ME San Antonio Glass Emmett Vivian, Jr., 1 Arch San Antonio Goforth, Allen Preston, 3 Agr Tolar Golasinski, Andrew Adolph, 4 IAE Houston Goldberg, Jacob Gilbert, 3 PPE San Antonio Goldberg, Jacob Gilbert, 3 PPE Goode, Benjamin Halbert, 4 EE Bertram Goode, Oscar Rankin, 1 AA Beaumont Goode, Oscar Rankin, 1 AA Beaumont Goodman, Richard Allen, 4 VM Goodman, Richard Allen, 4 VM Goodmight, Herbert Franklin, 3 ME Goodnight, Richard Homer, 3 AgEd Goodrich, Thomas Battle, 3 LA Marlin Goodwin, John Milton, 3 EE Corsicana Gorycki, Loius John, 1 IAE Bryan Gosth, Lenert Charles, 4 AgEd Austin Gott, Warren Cawell, 1 LA Clyde Gottlieb, Benjamin Manuel, 3 ChE Gordle, Earnest, 2 Agr Menard Grady, James Thomas, Jr., 2 EE Grasham, John Robert, Jr., 3 Sci Dallas Grant, Frank Weir, Jr., 3 CE Grasham, James Anthony, 1 Agr Graves, Francis Marion, 2 ChE Ft. Worth Graves, Henry Lee, Jr., 3 LA Corsicana Gray, Josenh Thomas, 1 ChE Eastland Grayon Darwin Bernice, 1 Agr Marquez Greak, William Gerald, 1 Agr Liberty Green, John Henry, 1 LA Marshall Green, Rupert Welch, 4 ChE Dallas Green, Rupert Welch, 4 ChE Dallas Green, Rupert Welch, 4 ChE Dallas Green, Robert, Jr., 1 AA Greenery, Coston Lee, 4 EE Handley Green, Robert Philip, 4 CE Ft. Worth Gregory, John Clifford, 1 LA Tyler Greeves, Carnie Robert, Jr., 1 AA Beaumont Gregory, Robert Philip, 4 CE Ft. Worth Gregory, Lewis, 3 ChE Gregory, Lew

Haber Hames Dhilin 4 FF Jannings La
Haefele David Moore 1 Sci Paris
Haegelin, Albert Alexander, 1 LAHondo
Hagius, Karl Shear, 1 ChETerrell
Hagner, Fred Genard, 4 Sci San Antonio
Hahn, Edward Lee, 1 CMHouston
Harmowitz, Hyman Marcel, 2 PPE
Ha ston Leo Love 3 EE Tyler
Hall Burton Richard, 1 CEPlainview
Hall, Carl Davis, 4 AAItaly
Hall, Earl Oxford, 2 EECrawford
Hall, Henry Taylor, 2 LA
Halliday, Herbert, Bonham, 1 EE
Beaumont
Halliday, Otis Thornton, 4 EE
San Antonio
Hallmark, Glen Duncan, 2 EEMexia
Halton Forrest Edward 4 EE
North Terrytown, New York
Hamilton, Edward William, 2 EE
Wichita Falls
Hampton, Ireland, Jr., 3 ChE College Sta.
Handler, Isadore Albert, 3 AAGalveston
Haney Harold Oquinn 2 Agr Rio Hondo
Hannah, Jack Henry, 2 LandSherman
Hansard, William Mark, 1 ME Ft. Worth
Hansen, Carl Jasper, 4 MEAvoca
Hansen, Fred Louis, 2 AgrTemple
Harben, Earle Blewett, 3 ME Richardson
Harbin, Andrew Lee, 1 CEWaxahachie
Hardcastle, Robert Dalton, 4 IE
Tulsa, Okla.
Hardie, LeBron, 1 AgrEl Paso
Hardin, Page Harris 1 Agr Townell
Hardin, Ross Harris, 1 AgrTerrell Harding Jack 2 EE South Bend, Ind.
Hardin, Ross Harris, 1 AgrTerrell Harding, Jack, 2 EESouth Bend, Ind. Hardy, Charles Judson, 1 MENederland
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Hardin, Ross Harris, 1 Agr Terrell Harding, Jack, 2 EE South Bend, Ind. Hardy, Charles Judson, 1 MENederland Hardy, Henry Lynn, 1 ME Nederland Hargrove, Levi Marlin, 2 Agr Hale Center Hargrove, Jack Monroe, 1 Agr Spur Harkey, Marion Lesley, 1 CECrystal City Harlan, James Frank, 3 IAE Temple Harling, Robert Alvin, 4 AgrHouston Harp, Lex Ambrous, 1 LA Uvalde Harrell, Howard Henry, 1 VM Lufkin Harrington, John Enright, Jr., 1 EE Shreveport, La. Harris, Basil Lee, 1 Agr Dublin Harris, Elmer Lowell, 4 CE Hall Harris, Eugene Truett, 1 CE Houston Harris, Franklin Augustus, 2 ME Orange Harris, Jay Henry, 1 RE Bryan Harris, Stone Datus, 3 ME Dallas Harris, Thomas Briton, 3 PPE Odessa Harris, Wayne Meredith, 1 EE Tuleta Harrison, Angus Albert, 3 AA Lufkin Harrison, Angus Albert, 3 AA Lufkin Harrison, Stafford Sexton, 2 AgEng Jourdanton Hartman, Richard F., 2 Agr Cuero
Hardin, Ross Harris, 1 Agr Terrell Harding, Jack, 2 EE South Bend, Ind. Hardy, Charles Judson, 1 MENederland Hardy, Henry Lynn, 1 MENederland Hargrove, Levi Marlin, 2 Agr Hale Center Hargrove, Jack Monroe, 1 Agr Spur Harkey, Marion Lesley, 1 CECrystal City Harlan, Josiah Smith, 1 Sci Temple Harling, Robert Alvin, 4 AgrHouston Harp, Lex Ambrous, 1 LA Uvalde Harrell, Howard Henry, 1 VM Lufkin Harrington, John Enright, Jr., 1 EE
Gwin, Robert Jewel, 3 Agr

Herbert, Robert Lafayette, 4 LA ...Lufkin Herfurth, Carl LeRoy, 3 AgrGarland Hering, William Albert, 2 ChE ...Taylor Hermann, Robert Charles, 2 Sci ...Yoakum Herndon, Louis William, 4 CE ...Dublin Herring, Clinton William, 4 AADublin San Antonio Herring, Clinton William, 4 AA

San Antonio
Herring, H. Ross, 1 LA Bryan
Herring, John William, 2 AA Cuero
Herzik, Gus Ralph, Jr., 2 CE Engle
Hessel, Aaron, 1EE Mercedes
Hester, Jack Grady, 2 LA Gulf
Hewitt, Wilmer Walter, 2 RE Groesbeck
Hickey, William Henry, 2 EE

San Antonio Higdon, Victor Eddens, 2 PPETeague Higgins, William Thomas, Jr., 1 AA Hildebrandt, Alexander Bubber, 2 EEHouston Hildebrandt, Edward Frank, 1 Arch Hilger, John Allen, 4 ME Sherman Hilgers, Herbert Frederick, 4 Arch Hill, Curtis Eugene, 2 AgrComstock

Hill, Edwin Henry, 2 Arch	Huebel, Leon William, 3 ChEGlidden Huerta, Aurelio Garrastachu, 2 ME
Hocker, Otis Beverly, Jr., 4 EE Clarksville Hodge, Robert Durward, 1 PPE Del Rio Hodge, Robert Jefferson, 1 Agr Pledger Hodson, Raymond Burr, Jr., 2 CE Houston Hoeffert, George John, 1 CEWaco Hoffmeister Carroll King, Jr., 1 ChE	Hunt, Oliver Joel, Sp. La Teague Hunter, Felix Albert, 2 ChE Dallas Hunter, Thomas Frank, 2 PPE Wichita Falls Hurley, John Edward, Jr. 4 EE
Ft. Worth Hoffmeister, Harold Maxwell, 4 ChE Ft. Worth	Hurst, Walter Eugene, 1 ArchFt. Worth Hussey, Clarence Boyde, 2 ChEFt. Worth Huston, Robert David, 1 LAPaint Rock Hutchen, Cur Corldon, 3 FF. Denton.
Holcomb, Alfred David, 1 AACollege Sta. Holcomb, Ernest James, 3 LACollege Sta. Holke William Emory, 3 CE Houston	Hutchison, Jack, 1 AA
Hollan, John D., 2 Agr Sinton Holland, Herman Trustin, 1 IAE College Station Holley, Robert James, 2 PPE San Antonio Holliman, Charles Irving, 4 PPEVernon	Huth, Alvin Lorain, I MESan Antonio Hutson, Richard Woodward, I LA East Orange, N. J. Hutto, Thomas Louie, I AgrCoahoma Hyde, William Strickland, 3 MEPampa Illingworth, Roland Hiram, 4 MEDallas Ingram, George Lee, 2 ArchNederland
Hollingsworth, Theodore Gilbert, 2 PPE Ft. Worth Holmes, George Vernon, 2 Agr. Gonzales	Irvin, Barlow, 4 RESan Antonio Irvine, Houston Noell, 1 ChEFt. Worth Irwin, Boyce Maurice, 2 AgEdKosse Irwin, James Ren, Sn, AAGarrison
Holmes, J. Wiley, 1 Agr Ralls Holmes, William Worth, 2 CE Shamrock Honea, Malcolm Lamar, 1 PPE Cleburne Hooser, Donald Bedney, 2 ME Milford Hooser, William Bonis, 1 Agr Seymour Hoover, Raymond Claude, 1 LA Yoakum	Ismail, Abdul Jabbar, 3 EE Bagdad, Iraq Jabbar, Mohammed Ali Abdul, 4 Agr Jackman, Mark Drake, 4 PPE Fostoria Jackson, Chester Warren, 3 AgEdCenter
Hopkins, Philip Roland, 1 ChE Lone Oak Hopkins, Samuel Bunch, 1 Agr	Jackson, James Leroy, 3 ChEFt. Worth Jackson, Robert Francis, 3 EETerrell Jackson, Ray Forrest, 1 VMMarshall
Horn, Earl Scherer, 3 ChE Cleburne Horn, Earl Scherer, 3 ChE Dallas Horn, Huley B., 4 AA Spur Horn, Leo Clyde, 1 AA Spur Horne, Roy Clifford, 4 Agr Corpus Christi Horner, Paul Welton, 1 ChE Spur	Jackson, Wilbur Mottrude, 3 EE San Antonio Jacobs, Milford Nat, 1 AA San Antonio Jahns, John Charles, 3 ME Ft. Worth Jamail, George Dohr, 1 ChE Houston January, Bruce Wright, 1 ME Delia Jarman, Thomas Edward, 2 ChE Waco Jarratt, Frank Earl, 4 Agr Eola Jecker, James Francis, 3 EE Refugio
Hornsby, Harold Richard, 4 AgrAustin Horton, Robert William, 1 Agr Nacozair, Mex. Horton, Ulric Guy. 2 MESabinal Hovey, Lawrence Merrill, 4 AgrLa Porte	Jarratt, Frank Earl, 4 AgrEola Jecker, James Francis, 3 EERefugio Jefferies, Perry Doddridge, 2 CELaredo Jeffry, Jack Cassles, 4 ChESan Antonio Jefferies, James Andrew, 2 Arch, Ft. Worth
Howard, Charles Henry, 2 ChE Spanish Fort Howard, Lewis Benton, 2 PPE Shreveport, La.	Jeffus, Mac Weldon, 1 EE Paris Jenkins, Max Winston, 2 Agr Staples Jennings, Audrey John, 3 CE Sanatorium Jennings, Carl H., 2 PPE Denison Jennings, John W., Jr., 2 Agr Brownwood
Howder, John Douglas, 3 LA .Fort Crockett Howdeshell, Harmon Martin, 3 ME	Jernings, John W., Jr., Z Agr Brownwood Jernigan, Patrick Allen, 1 EE Lake Charles, La. Jett, Edward Sharman, 4 AAHouston John, Philip James, 4 ChEHarlingen Johnson, Alfred Peter, 3 LAAlvin Johnson, Arnold Richard, 3 AA _Ft. Worth
Huber, Howard Henry, 2 LA. San Antonio Huckabee, John Walter, 2 Agr Holland Huckabee, Roy Lee, 1 Agr Holland Hudgins, Edgar Hinkle, 3 Agr Hungerford	Johnson, Arnold Richard, 3 AA .Ft. Worth Johnson, Curtis Elmer, 3 ChEGordon Johnson, J. B., 1 ArchDallas Johnson, John Henry, 2 EEFt. Worth

Johnson, Jake Percy, 2 Sci	Kirk, Ribelin Garey, 1 MECarrizo Springs
Bogalusa, La. Johnson, Laud, 1 ME	Kitley, Dayton Victor, 4 PPE Eastland Kleber, John Preston, 1 ChE Dallas Klein, John Joseph, Jr., 1 LA Dallas Klein, Richard Austin, 2 CE
Johnson, Lauu, I ME	Klein John Joseph Jr 1 LA Dallas
Johnson Walter Frederick 2 Agr Yoakum	Klein, Richard Austin, 2 CE
	Texarkana, Ark.
Johnston, Carl Cameron, 3 EE	Kieffi, Theodore Witham, 5 CE
Johnston, Harry Wilton, 1 SciLaredo	College Station
Johnson, James Alvin, 2 ChETrinidad	Klossner, Robert Henry, 1 CEEdinburg Knigge, Julius Amberg, 1 EELa Grange Knotts, Edward Thurmond, 1 Arch
Jolly, Wyndal Robert, 3 EESan Antonio	Knigge, Julius Amberg, 1 EELa Grange
Jones, Albert G., 1 AgrBryan Jones, Andrew Pat, 2 EEHereford	Knotts, Edward Thurmond, I Arch
Jones, Arthur Schuyler, 2 CMSan Antonio	Knotts, J. R., 1 LandKemp
Jones, Edward Noah, 1 PPESan Antonio	Knouse, Anthony Mark, 1 EE
Jones, Edward William, Jr., 1 Agr	Shreveport, La.
Gatesville	Knox, Marvin Allen, 1 CEHereford
Jones, Heiman Franklin, 1 Arch Galveston	Knox, Walter McLean, 1 AgEdBertram
Jones, Herschel Voit, 1 CEBogolusa, La.	Knudson, Elmo Morton, 1 MEClifton
lones John Kirby 4 k.K. Resumont	Knudson, Monroe Clarence, 4 MEClifton
Jones, James Marion, 2 ME Temple Jones, John Milton, 3 Agr Teague Jones, James Theodore, 1 Agr Belton	Kochler, Rudolph Hugo, 4 PPEDickinson
Jones Jones Theodore 1 Agr Relton	Koerth, Robert Lee, 2 AA
Jones, Leonard Bonham, 4 AATaft	Kojak, Louis Elios, 1 Arch Beaumont
Jones, Leonard Bonham, 4 AATaft Jones, Lewis Henry, Jr., 3 CE	Konecny, Leon Thomas, 1 EEBryan
Cornus Christi	Kothmann, Henry Fritz, 4 Agr Mason
Jones, Morris Elijah, 1 LACarmona	Kothmann, Henry Fritz, 4 AgrMason Kraatz, Martin Walter, 1 LAWinchester
Jones, Morris Elijah, 1 LACarmona Jones, Milton Horne, 2 ChEOlney Jones, Roy D., 1 MERanger	Krenek, Stanley John, 2 Arch Caldwell Krezdorn, Roy Rankin, 4 EE Seguin Krumbholz, Earl Paul, 4 Arch
Jones, Roy D., 1 ME	Krezgorn, Roy Kankin, 4 EESeguin
Jones, Virl Wright Rig, 1 Agr Buffalo Jordan, Earl John, 1 LALittle Rock, Ark.	
Jordan, Elten Maurice, 1 ChE Dallas	Krumholz, Aaron, 1 ChE Tyler
Jordan, Jack Merl, 4 EELufkin	klumnoiz, David Victor, 4 ChE Tyler
Jordan, Walker Reynolds, 2 Agr Mason	Kunkel, Turner Lee, 3 EEMegargel
Jordan, Wharton Thomas, 1 LA Ft. Worth	Kyle, Albert Burleson, 2 AgrWhitney
Jordan, Eliten Maurice, 1 ChE	Krumholz, Aaron, 1 ChE
Jovee Claude Patrick Ir 3 FF Dellas	Lackle, William Ort, 4 AASan Antonio
Joyce, Claude Patrick, Jr., 3 EE Dallas Kaltwasser, Ervin Theodore, 2 EE Caldwell	Lackie, William Ort, 4 AA San Antonio Lacy, Walter Garner, Jr., 2 LAWaco Lagow, Charles Marshall, 3 CEDallas
Kana, Fred John, 4 RE La Grange Karnes, Tom Ezelle, 1 EE Dallas Karsteter, Burton W. 4 CE Bellevue Keeling, Willard Lee, 2 AA Marlin Keeton, Woodrow Joe, 1 AA Ft. Worth	Lair. Jack, 4 AgrSan Angelo
Karnes, Tom Ezelle, 1 EE Dallas	Laird, Decon Carroll, 1 LAKilgore
Karsteter, Burton W. 4 CEBellevue	Laird, Harroll Emmett, 1 LAKilgore
Keeling, Willard Lee, 2 AAMarlin	Lala, Gilbert Otto, 1 AgrPlacedo
Keith James Long Jr A Arch Resument	Lamb, Morris Emberton, 4 AgrAsherton Lambert, Gordon Huston, 1 Land
Keith, James Long, Jr., 4 Arch Beaumont Keith, Perry Jack, 3 MEDallas Keith, Paul Lattimore, 2 ChEFt. Worth	Shreveport, La.
Keith, Paul Lattimore, 2 ChEFt. Worth	Lancaster, Darrell Boyd, 1 ME Oenaville
Kelley, James Traynam, 2 PPEHouston Kelley, Louis George, 1 LASan Antonio Kelly, Myles Adrian, 3 MEMonroe, La.	Land, Lenoir Martin, 2 AAVivian, La.
Kelley, Louis George, 1 LASan Antonio	Landrum, John Marcus, 3 Agr Taylor
Kelly, Myles Adrian, 3 MEMonroe, La.	Lane, Leon Maxwell, 2 AgrValley Mills
Kelsey, Mavis Parrott, 4 SciDeport Kelt, George Allen, 3 AgrChatfield	Langford, Henry Lee, 2 PPEHillsboro Langley, Frederick James, 1 EEFentress
Kenderine, John Marshall, 3 PPE	Langley, Marshall Arlon, 1 SciFentress
Ft. Worth	Langley, Samuel Firth, 2 LA
Kendrick, Charles Wynne, 4 TEAmarillo Kendrick, Meredith Bailey, 1 MEAmarillo	Carrizo Springs
Kendrick, Meredith Bailey, 1 ME .Amarillo	Langston, Gordon George, 2 TE
Kennedy, Matthew Ranken, 4 Agr Taylor	San Antonio
Kennerly, Tom Provence, 2 SciHouston Kenney, Timothy Charles, 3 CE	Langston, Oscar Mathers, 3 AAGarrison Langston, Wallace Randolph, 1 ME
East St. Louis, Ill.	Houston
Keppler, Arthur Milton, 4 EE Houston	Lanning, James Maurice, 1 Sci Crane Large, William Robert, Jr., 1 ChE Dallas
Kerley, Odus Clyde, 3 IAESherman Khazzam, Naim Eliahou, 3 ME	Large, William Robert, Jr., 1 ChE Dallas
Khazzam, Naim Eliahou, 3 ME	
Kidd, Jefferson Bennett, 4 AgrKatemcy Kidwell, Graber Henry, 4 ArchDallas	Latham, Albert Perry, 1 Agr Spur Latham, Clyde Cecil, 1 Agr Spur Laughlin, Elmo Burzess, 4 LA Houston Lavening, Horry Wilson, 1 MF Delton
Kidwell Graher Henry 4 Arch Dollag	Laughlin Elmo Rurgess 4 LA Houston
Kimbrough, William Richard, I Agr	Lavagnino, Harry Wilson, 1 MEDallas
Haskell	Lawhon, Lester Farris, 4 AgEngDenison
King, Charles Alma, 4 AgrEl Paso	Lawrence, Ernest Harold, 1 AA Columbus
King, Columbus Gradie, 4 CEFt. Worth King, Garland Norman, 1 EESeguin	Lawrence, James Clyde, 1 CE Craig, Cel.
King Garland Norman, 1 EESeguin	Lawrence, William Freeman, 1 ME
King, Richard, 1 CESan Antonio Kirberg, Rudolf William, 4 Sci, Port Arthur	Lea, Norman Jared, 3 EE, College Station
and a second transmit, 4 bot, 1 of Arthur	sen, storman outen, o Bu, Conege Station

Le Beau, Floyd, 1 AgrDenton	Ludeman, Martin Francis, 3 ChE
Lednicky, Ben Joe, 2 Land West Lednicky, Henry M., 2 ME West Lee, Burton Donald, 4 EE Nixon	Ludeman, Walter A., 3 EEGainesville
Lee Rurton Donald 4 EE Nivon	Luedecke, Alvin Roubel, 4 ChEEl Dorado
Lee, Martin Homer, Jr., 2 LA Wichita Falls Leighton, Charles K., 2 CE LeCorsicana LeLaurin, Louis Alexander, 2 LA	Luker, J. B., 1 Agr Sch lenburg Luper, Calvin Farris, 1 Agr Rowlett Luse, Willard Oscar, 3 EE Houston Lusk, Donald Thomas, 2 Sci Scotia
Wichita Falls	Luper, Calvin Farris, 1 AgrRowlett
Leighton, Charles K., 2 CE Corsicana	Luse, Willard Oscar, 3 EE
LeLaurin, Louis Alexander, 2 LA	Lusk, Donald Thomas, 2 SciScotia
Lester, Charles James, 4 EEBeaumont	Lyle, Clayton Bane, 1 MEDenison Lyle, Henry Norwood, 2 PPEShamrock
Lester, Felix Berkley, 4 Agr	Maddama Poland Farl 4 I A Pilot Point
Lester, Felix Berkley, 4 AgrNew Orleans, La	McAlister, Ernest Elmo, 3 AgEd
Letts, Hubert Winfred, 1 CE El Campo Levee, John Aubrey, 1 CE Texarkana Levin, Frank Aunsky, 1 Sci Brenham	McAlister, Ernest Elmo, 3 AgEd
Levee, John Aubrey, 1 CETexarkana	McBride, James Clark, 2 CMWaco
Levin, Frank Aunsky, 1 Sci Brenham	McGann Furana Harrison Tr. 2 FF
Levy. Elehugh. 3 EE Waco	Ft. Worth
Levin, Frank Aunsky, 1 Sci Brennam Levine, Isadore, 4 Arch Ft. Worth Levy, Elehugh, 3 EE Waco Lewis, Felix Dixon, 1 Agr. San Augustine Lewis Robert E. Ir. 3 CE Engis	McCarroll, James Clemmons, 1_CE
Lewis, Robert E., Jr., 3 CEEnnis Lewis, Robert Leslie, 2 SciParis	Fort Worth
Lewis, Robert Leslie, 2 SciParis	McClain, Herbert David, 1 LA
Lewis, Tyron Eugene, Jr., 2 ChE	McClellan, Chandler Young, 2 EE
Liem, Edwin Mound, 4 AgEdCenter	San Antonio
Lightfoot, Ashburn Jarrett, 1 AgEng	McClendon, Ernest Andrew, 3 ChE
Bryan	Cleburne
Lightfoot, James Herbert, 3 ChE Rockdale	McClendon, Perry Thomas, 2 EEHouston
Lighthouse, Terrence Summit, 4 PPE	McCluney, Samuel Robert, 4 IAE
Lightsey, Virgil Raymond, 4 EEArp	McClurkin, Fred George, 2 EE
Lilienstern, Charles Holman, 2 LA	
Mt. Pleasant	McCollough, Vincent Aubrey, 2 IAE
Lilley, Frank Shannon, 2 AgrConroe	McConnell, Herbert Clyde, 4 ChE Waco
Lillie, Fred Vance, 2 UESan Antonio	McCord. Jack Wesley, 1 ArchTyler
Industry	McCoun, Ernest Truth, 4 LA
Lindsley. Berrien M. W., Jr., 1 CE Dallas	McCubbin, Warren George, 1 Agr
Lindsley. Berrien M. W., Jr., 1 CE Dallas Litchfield, William Howard, 3 ChE	McCubbin, Warren George, 1 Agr
Beaumont	McCullough Donald Calvin 2 EE Bryan
Little, Jim Ravmond, 2 SciGilmer Little, V. A., SoCollege Station	McCullough, Donald Calvin, 2 EE Bryan McCurdy, Clifford Offer, 2 Arch
Littlejohn, Jack Heflin, 1 LATulia	San Antonio
Locke, Howard William, 4 Land	McDavitt, Jerome Alleyene, 3 LA
Locke, Howard William, 4 LandNew Braunfels	McDonald Crit C 2 FF Sammer
Loe, Dal Angus, 1 LAWaxahachie	McDonald, George Kirk, 1 CM Ahilene
Loewenstein, Ike Moritz, 2 LAYsleta	McDonald, James Collie, 1 Agr Miles
Lofton, K. T. 1 Agr Post Logan, Fred Hal, 1 EE Seymour,	McDonald, William Thomas, 2 LABryan
	McDonald, Crit C., 2 EE Seymour McDonald, George Kirk, 1 CM Abilene McDonald, James Collie, 1 Agr Miles McDonald, William Thomas, 2 LA Bryan McDowell, Thomas Harry, 4 TE Bonham McElroy, Ervin Balfour, 3 Agr Bryan McElroy, Raymond Plaxco, 4 Agr Fort Worth McEver, C. D., 1 Agr Hillsbore
Logan, James M., 4 AgEdStephenville	McElroy Raymond Player A AgrBryan
Logan, Robert Stanley, 3 Arch Houston	Fort Worth
Logan, Sam Thomson, 2 Agr Sonora	McEver, C. D., 1 Agr
Logan. Willerd Bentley, 2 EEDallas	McFadden, Paul Marion, 4 PPECleburne
Logan, James M. 4 AgEd Stephenville Logan, Robert Stanley, 3 Arch Houston Logan, Som Thomson, 2 Agr Sonora Logan, Willerd Bentley, 2 EE Dallas Logwood, Eddie Givens, 2 Agr Atlanta Long, Charles Anderson, 4 CE Dallas	McFarland, James Porter, 1 Agr
	McFatridge, James Morris, 1 AgrRoxton
Long, Farl Yell, 1 ChE Cleburne Long, Robert Bird, 2 AA Dallas Long, Raymond Wells, 2 EE Marshall Loper, Frank Alton, 2 Sci College Station	McFatridge, Keith William, 4 SciRoxton
Long, Robert Bird. 2 AA Dallas	McGee, Frank, Jr., 1 ChEBryan
Long. Raymond Wells, 2 EE Marshall	McGee, Paul Lafayette, 4 PPEBryan
Loper. James Frederick, 2 EE Teague	McGee, Virgil Jones, 1 CECanyon McGehee, Otho Abnec, 1 PPEDallas
Lord. George Plez. 2 Agr Jourdanton	McGinnis, Francis Kamp. 4 LandDallas
Lord. George Plex. 2 AgrJourdanton Lord. Harry Robert. Jr., 1 ChEHebron	McGrath, John Joseph, 2 AA, San Antonio
	McGregor, Theodore, 2 AgrBryan
Love. Allan Cavitt 4 CE Ennis Love Jee Neel 3 ME Sherman	McGregor, Theodore, 2 Agr
Lovett, George Dare, 1 PPETrinity	McGuire, Nathan B. Forest, 1 AgEng
Lovett, Max Dowell, 2 ArchRoby	Pottsboro
Lovoi, Frank Joseph. 2 EE Beaumont	McHaney, Joe Cornelius, 1 LA San Antonio
Lucke, Walter Strathern, 2 EE	McKay. Edwin Oliver, 3 ME
San Antonio	McKenzie, Andrew Jackson, Jr., 2 CE San Antonio
Luckett, Paul H., Jr., 3 ChE El Paso	McKenzie, Homer Wilson, 2 ME Denton
, 1430	Denvin

McKenzie, William Henry, 3 LA
McKongio W M 1 DDE Abilene
McKnight, James Oliver, 1 Land,
Jacksonville
McKnight, Reginald Seaman, 2 ChE
McLarry, Weldon Gray, 2 EE
Sulphur Springs
McLemore, Robert Henry, 3 PPEDallas
McLeod, William Angus, 2 LACuero
McMahan, Joseph Rufus, Jr., 4 EE
Columbus
McMahon, Robert Emmett, 1 ME, Ft. Worth
McMillan, Joseph Cromp, 2 ME Bay City
San Antonio
McMillan, Leon Grayson, 1 IAE
MaMillan Woodrow Bushanan 1 Agr
Mason
McMurray, Charles Edwin, 3 CEDallas
McNelly, Melvin Locke, 1 AgrBryan
McNeely, Preston Dwight, 2 EEFt. Worth
McNerney, David Boyd, 4 EEDallas
McPeters Morris Allen 2 Agr Bryan
McReynolds, James Harry, Jr., 3 PPE
Sherman
McReynolds, Oliver Barton, 1 Arch
Mayor Coord Walton In 2 IAF
Parsons. Kansas
McWatters, Herman Thornton, 4 AA
Many Owillo Puston 2 CF Wishits Falls
Maag, Orville Buster, 3 CEWichita Falls
McReynolds, Oliver Barton, 1 Arch Palestine McVey, George Walter, Jr., 2 IAE Parsons, Kansas McWatters, Herman Thornton, 4 AA Parsons, Fittsburg Maag, Orville Buster, 3 CE Wichita Falls Mabry, Benjamin Bradley, 3 ME San Antonio
Maag, Orville Buster, 3 CEWichita Falls Mabry, Benjamin Bradley, 3 ME
Maag, Orville Buster, 3 CEWichita Falls Mabry, Benjamin Bradley, 3 ME
Maag, Orville Buster, 3 CEWichita Falls. Mabry, Benjamin Bradley, 3 ME San Antonio Machalek, Joe William, 1 IAETemple Machemehl, William Paul, 3 AA, Bellville Mackey, Arthur Kapp, Sp. Agr
Maag, Orville Buster, 3 CEWichita Falls Mabry, Benjamin Bradley, 3 ME San Antonio Machalek, Joe William, 1 IAETemple Machemehl, William Paul, 3 AA, Bellville Mackey, Arthur Kapp, Sp. Agr. College Station
Maag, Orville Buster, 3 CEWichita Falls Mabry, Benjamin Bradley, 3 ME
Maag, Orville Buster, 3 CEWichita Falls Mabry, Benjamin Bradley, 3 ME
Maag, Orville Buster, 3 CEWichita Falls Mabry, Benjamin Bradley, 3 MESan Antonio Machalek, Joe William, 1 IAETemple Machemehl, William Paul, 3 AA, Bellville Mackey, Arthur Kapp, Sp. Agr
Maag, Orville Buster, 3 CEWichita Falls Mabry, Benjamin Bradley, 3 ME
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Maag, Orville Buster, 3 CEWichita Falls Mabry, Benjamin Bradley, 3 ME
Maag, Orville Buster, 3 CEWichita Falls Mabry, Benjamin Bradley, 3 MESan Antonio Machalek, Joe William, 1 IAETemple Machemehl, William Paul, 3 AA, Bellville Mackey, Arthur Kapp, Sp. Agr College Station Madeley, Roland Curtis, 1 AgrConroe Maedgen, Malcolm Allen, 2 Agr Mathis Magrill, Otis Byron, 3 Agr Marshall Maier, Elmer Alyin, 4 VM Fredericksburg Mainer, Clyde Williams, 3 Agr Waco Majors, Williford Horace, 4 AA Port Arthur Malavansos, Gus Chris, 1 LA Houston Malina Frank Leeph 2 ME Reprobam
Maag, Orville Buster, 3 CEWichita Falls Mabry, Benjamin Bradley, 3 ME
Maag, Orville Buster, 3 CEWichita Falls Mabry, Benjamin Bradley, 3 ME
Maag, Orville Buster, 3 CEWichita Falls Mabry, Benjamin Bradley, 3 MESan Antonio Machalek, Joe William, 1 IAETemple Machemehl, William Paul, 3 AA, Bellville Mackey, Arthur Kapp, Sp. AgrCollege Station Madeley, Roland Curtis, 1 AgrConroe Maedgen, Malcolm Allen, 2 AgrMathis Magrill, Otis Byron, 3 AgrMarshall Maier, Elmer Alyin, 4 VMFredericksburg Mainer, Clyde Williams, 3 AgrWaco Majors, Williford Horace, 4 AAPort Arthur Malavansos, Gus Chris, 1 LAHouston Malina, Frank Joseph, 2 MEBrenham Mallepell, Jack, 3 MESan Antonio Malone, Charles C., 2 LADallas Malone, Thomas Henry, Jr., 3 MEEl Paso
Maag, Orville Buster, 3 CEWichita Falls Mabry, Benjamin Bradley, 3 ME
Maag, Orville Buster, 3 CEWichita Falls Mabry, Benjamin Bradley, 3 ME
Maag, Orville Buster, 3 CEWichita Falls Mabry, Benjamin Bradley, 3 ME
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Maag, Orville Buster, 3 CEWichita Falls Mabry, Benjamin Bradley, 3 MESan Antonio Machalek, Joe William, 1 IAETemple Machemehl, William Paul, 3 AA, Bellville Mackey, Arthur Kapp, Sp. Agr College Station Madeley, Roland Curtis, 1 Agr Conroe Maedgen, Malcolm Allen, 2 Agr Mathis Magrill, Otis Byron, 3 Agr Marshall Maier, Elmer Alyin, 4 VM Fredericksburg Mainer, Clyde Williams, 3 Agr Waco Majors, Williford Horace, 4 AA Port Arthur Malavansos, Gus Chris, 1 LA Houston Malina, Frank Joseph, 2 ME Brenham Mallepell, Jack, 3 ME San Antonio Malone, Charles C., 2 LA Dallas Malone, Thomas Henry, Jr., 3 ME El Paso Mangum, John Elbert, 1 LA Waco Manning, James Calaway, 3 EE Dallas Marzum, Clarence Edwin, 3 LA Estelline Marcum, Clarence Edwin, 3 LA Estelline Marcum, Clarence Edwin, 3 LA Estelline Marcum, Joev N., 2 EE Beaumont Marino, Joe N., 2 EE Beaumont Marion, George Thomas, 4 EE Dallas
Maag, Orville Buster, 3 CEWichita Falls Mabry, Benjamin Bradley, 3 ME
Maag, Orville Buster, 3 CEWichita Falls Mabry, Benjamin Bradley, 3 ME
Maag, Orville Buster, 3 CEWichita Falls Mabry, Benjamin Bradley, 3 MESan Antonio Machalek, Joe William, 1 IAETemple Machemehl, William Paul, 3 AA, Bellville Mackey, Arthur Kapp, Sp. AgrCollege Station Madeley, Roland Curtis, 1 AgrConroe Maedgen, Malcolm Allen, 2 AgrMathis Magrill, Otis Byron, 3 AgrMarshall Maier, Elmer Alyin, 4 VMFredericksburg Mainer, Clyde Williams, 3 AgrWaco Majors, Williford Horace, 4 AAPort Arthur Malavansos, Gus Chris, 1 LAHouston Malina, Frank Joseph, 2 MEBrenham Mallepell, Jack, 3 MESan Antonio Malone, Charles C., 2 LADallas Malone, Thomas Henry, Jr., 3 MEBrenham Mallepell, Jack, 3 MESan Antonio Malone, Charles C., 2 LADallas Malone, Charles C., 2 LADallas Manzum, John Elbert, 1 LAWaco Manning, James Calaway, 3 EEDallas Marcum, Clarence Edwin, 3 LAEstelline Marek, Jerry William, 1 ChEBrenham Margraves, Ross D., 2 SciParis Marino, Joe N., 2 EEBeaumont Marion, George Thomas, 4 EEDallas Marquez, Robert F., 3 LAYorktown Marquez, Salvador, 3 LAYorktown Marshall, Robert Pleasant, 3 Agr
Machalek, Joe William, 1 IAETemple Machemehl, William Paul, 3 AA, Bellville Mackey, Arthur Kapp. Sp. Agr
Machalek, Joe William, 1 IAETemple Machemehl, William Paul, 3 AA, Bellville Mackey, Arthur Kapp. Sp. Agr
Maag, Orville Buster, 3 CE Wichita Falls Mabry, Benjamin Bradley, 3 ME

.....Fort Worth May, Jonathan Thomas, 1 ChEOmaha Mayfield, George Daniel, 1 AgEd Mayse, Howe Franklin, 1 AgrMetzon Meador, Aubrey Peter, 1 LAWaco Meadows, Edwin Lionel, 3 EE DeQuincy, Louisiana Mears, Edwin Lamar, Jr. 1 AgrMenard Mecom, William Hardy, 1 AgrSpur Meiklejohn, Alexander Patterson, 1 EEWagon Mound, N. M. Melcher, Robert Lee, 4 AA La Grange Melden, Charles Larun, 3 CEMission Melden, Theodore Manley, Jr., 4 CE Merka, Joe, 1 LA Mission

Merrell, Cecil William, 1 Agr ... White Deer

Metzger, Jacob 1 4 4 Merral, Joe, 1 LA

Merral, Cecil William, 1 Agr White Deer
Metzger, Jacob, 1 AA Dallas
Meyer, Charles Henry, 1 AA Ellinger
Meyer, George Staffel, 4 ChE San Antonio
Meyerson, David Wolford, 1 ChE Houston
Michal, Emil Jaroslav, 4 ChE Flatonia
Mika, Fred Pete, 1 Agr Ballinger
Milburn, Philip M., 1 Sci San Antonio
Miles, Oscar Keith, 4 ME Fort Worth
Miller, Arthur A., 2 Agr Newton
Miller, Alvin Julius, 3 ChE Corsicana
Miller, Charles Bryar, 1 LA El Paso
Miller, James Eads, 2 Agr Odem
Miller, Joe Paul, 3 PPE Princeton
Miller, Louis, 3 Land
Miller, Louis, 3 Land
Miller, Larane Kennie, 1 CE Edna
Miller, Laymon Newton, 2 AgEd

Stephenville Miller, Stanley Jackson, 1 ME San Antonio Millsaps, Reuben Maxwell, 1 AAEdgewood Mimms, Otho Leroy, 3 AA Ralls
Mims, Joe Bryan, 1 VM Cleburne
Mims, Percy James, 4 AA Fort Worth Miner, Nelson Armstrong, Jr., 3 ME Minkert, James Gary, 2 LA Bryan Minton, Carl Boedeker, 1 TE Houston Mitchell, Christie Mike, 2 ChE Galveston Mitchell, John Michael, 2 ChE Galveston Mitchell, Robert Francis, 3 AgrFrost Mitchell, Willis Wilson, 3 Agr .. Longview Moehlman, Henry William, Jr., 1 AgrBryan

Moeller, Jens Edwin, 3 ME	Nagai, George, 1 MEAlmeda
Moeller, Jens Edwin, 3 MELarchmont, New York	Nagy, Frank, 3 AgrBryan
Monier, Kurt A. J., 1 ME San Antonio	Nagy, John, 2 AgrBryan
Monier, Kurt A. J., 1 MESan Antonio Monk, John C., 1 PPEDallas	Nance, William Elmer, 4 EELometa
Montague, Walter Russell, 3 PPE	Nagy, Frank, 3 Agr Bryan Nagy, John, 2 Agr Bryan Nance, William Elmer, 4 EE Lometa Nash, Cleve Crumby, 4 EE Dallas Nash, James Carroll, 3 AA Leona Naylor, William Adelbert, 1 Arch Wilditz Falls
Montford, Robert Earl, 1 AARice	Nash, James Carroll, 5 AALeona
Montgomory Charles Arthur 1 ChE	Neal, Edward Moore, 1 Agr Yoakum Neal, Seth Ward, 2 ME Overton Neff, Henry Carson, 3 ME Laredo Neilson John Warren, 3 Agr Spearman
Denton	Neal, Edward Moore, 1 AgrYoakum
Montgomery, James Robert, Jr, 3 CE, Waco	Neal, Seth Ward, 2 MEOverton
Moody, Ernest Kendell, 4 Agr	Neff, Henry Carson, 3 MELaredo
Montgomery, James Robert, Jr. 3 CE, Waco Moody, Ernest Kendell, 4 Agr Thahualilo, Mexico Moody, Joseph Calvin, 3 LA, Corpus Christi Moon Wilson Thomas 2 Agr Helland	Neilson, John Warren, 3 AgrSpearman
Moon Wilson Thomas 2 Acr Holland.	Neilson, John Warren, 3 Agr Spearman Nelson, John Emil, 1 ME Galveston Nelson, Oscar, 4 Agr Aldine Nelson, Robert Thomas, 2 ME Fort Worth
Moon, Wilson Thomas, 2 AgrHolland Mooney, John Butler, 2 AAHearne	Nelson, Robert Thomas, 2 ME Fort Worth
Moor, Charles Manley, 4 TEGalveston	Nelson, Thomas Robert, Sp. SciBryan
Moore, Alvan Augustus, 4 REItasca	Nelson, Thomas Robert, Sp. SciBryan Neumann, Edwin Robert, 4 REMarlin New, Jesse Lee, Jr., 2 SciLockhart Newhall, Roger Warren, 1 Agr
	New, Jesse Lee, Jr., 2 SciLockhart
Moore, Archie Woods, I Els	Newhall, Roger Warren, I AgrWaban, Massachusetts
Moore, Frank Varney, Jr., 3 ChE Pelly	Newman, Hollis Albert, 1 MEKirbyville
Moore, Joe Hearne, 1 AgrEl Dorado	Newport, Waldo William, 3 Agr
Moore, John Wright, 4 ChELa Grange Moore, Lister Russel, 3 PPETexas City	College Station
Moore, Lister Russel, 3 PPETexas City	Newton, Walton Connell, 1 LASeymour Newton, William Jeter, 2 PPECameron
Moore, Martin Andrew, 2 LA	Newton, William Jeter, Z PPE Cameron
Moore, Milton Murray, 1 EEHouston	Newton, William Tobin, 1 EE
Moore, Raymond Atkinson, 1 ChEBryan	Nicholas, James Alfred, 2 AgEng
	College Station
Moore, Thomas Guy, 3 CEOakwood	Nixon, Angus Gray, 3 CECanton
Moore, William Ewing, Jr., 2 EETemple	Nixon, Marshall Andrew, 1 AAVernon
Mooty J T 1 I.A Fort Worth	Nolan, Rheyburn Emmit, 2 Agr, Santa Rosa
Moore, Thomas Franklin, I ChEDallas Moore, Thomas Guy, 3 CEOakwood Moore, William Ewing, Jr., 2 EETemple Moore, Wilbur Merwin, 2 IAEHouston Mooty, J. T., 1 LAFort Worth Morehead, Arthur Owen, 3 RE	Nolan, Willis, 3 AgrSanta Rosa Noone, Edward James, 1 PPE
College Station	Alovendria Louisiana
Morgan, Lucian Miner, 1 ChE	Norris, Harry Switzer, 1 MESan Antonio Norton, Douglas Nelson, 1 MEUtopia Norwood, Robert Thomas, 1 LAMart Noster, Manford Freeman, 2 EEBay City
College Station	Norton, Douglas Nelson, I ME Utopia
Moriyama Akira 4 AgEng Tokio Japan	Norwood, Robert Thomas, I LAMart
Morris, Paul Edward, 3 ChE, San Antonio	Nott. Lloyd Wilson, 2 EEAlvin
Morris, Roger Jose, Jr., 4 CEDallas	Nott, Lloyd Wilson, 2 EE
Morris, Tom Clint, 3 AgrForreston	Oakes, Harvey, 4 Agr, Leesville, Louisiana
Morris, Weldon B., 4 AgrWinnsboro	(e) herotell Edward Albert, 4 Unit
Morrison, Artnur Voiney, 1 AgrGarland	O'Connell, Robert Emmit, 3 ArchWaco
San Antonio	O'Connor. Patrick James. 2 LADallas
Morgan, Thomas Denman, I LAHamlin Moriyama, Akira, 4 AgEng Tokio, Japan Morris, Paul Edward, 3 ChE, San Antonio Morris, Roger Jose, Jr., 4 CE Dallas Morris, Tom Clint, 3 AgrForreston Morris, Weldon B., 4 AgrWinnsboro Morrison, Arthur Volney, 1 AgrGarland Morrow, David Riekbiel, 1 ChE	O'Connor, Patrick James, 2 LADallas O'Dowd, William Charles, 4 AgrCleburne
	Ohls. William Arthur. 4 AgrMercedes
Moseley, Matt Martin, 2 EEDallas	Oliver, Bruce, 1 AgrDouglasville Oliver, John Calvin, 4 CESan Angelo
Moser, August Charles, Jr., 4 AADallas Moser, Christopher Otto, Jr., 3 AA	Olsovsky, Edward Alphonse, 2 ME
	Hallettsville
Moser, William Jacob, 4 AADallas Moses, Terry Wayne, 4 EERockdale Moss, Joseph Taylor, 1 SciSinton Mosty, Raymond Francis, 1 Land	Oppenheim, James Randolph, 1 CE
Moses, Terry Wayne, 4 EERockdale	110uston
Moss, Joseph Taylor, I SciSinton	Oppenlander, Jack Douglas, 1 ChECorpus Christi
Mosty, Raymond Francis, I Land	Opryshek Cornelius Sp. Agr
Mosty, Robert Lee, 2 LandCenter Point	Opryshek, Cornelius, Sp. Agr
	O'Riordan, John Eldridge, 3 MEHouston Orman, James Melvin, 4 CEDallas Orms, James Young, 1 MEBryan
Moulden, Carl Dabney, 3 AgrCisco	Orman, James Melvin, 4 CEDallas
Movery, Irvin Claude, 4 AgrAlmeda	Orms, James Young, 1 MEBryan
Mueller, Harold Adolph 1 Sci Kennedy	San Antonio
Muller, James Anderson, 1 ChEDallas	Orson, Oliver Wilton, 3 VMMidland
Mother, Raiph Morris, 1 LABeaumont Moulden, Carl Dabney, 3 Agr Cisco Mowery, Irvin Claude, 4 Agr Almeda Mueller, Frederick Walter, 4 SciKennedy Mueller, Harold Adolph, 1 SciKennedy Muller, James Anderson, 1 ChEDallas Muller, John G., 2 MECommerce Munn, Charles S., 1 AADallas Munn, Duncan Fullerton, 1 AADallas Munnerlyn, James Mouzon, 4 Agr	Orrison, William Wallace, 2 CE San Antonic Orson, Oliver Wilton, 3 VM Osburn, Robert Rankin, 2 EE Ft. Sam Houston
Munn, Charles S., 1 AADallas	Ft. Sam Houston
Munnorlyn James Mouren 4 A	Oshman, Ancil, 3 LARichmone
Munnerlyn, James Mouzon, 4 Agr	Otts, John Graves, 2 MECuero
Murchison, Robert Grady, 4 AgrHaskell	Owen, Thomas William, 1 AgrWheele
	Owens, Frank Eugene, 2 PPEEdn
Murray, Ray Leroy, 2 LandMercedes	
Muzquiz, Juan Raul, 2 Arch Eagle Pass	Owens, Thomas Dodson, 3 PPEBonhar

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Owsley, Henry Furlow, Jr., 4 ME New Orleans, La. Paine, Otis Warren, Jr., 2 ChEHouston Pair, Robert Glenn, 2 LAHillsboro Palm, Rufus William, 2 AgrBellville Palm, Thomas Jefferson, Jr., 1 ArchWaco Palmer, Willie K., 3 AACorsicana Pampell, Vernon Collet, 3 LAFort Worth Parenica, Charles Roy, 1 AgEd Parish Houston Forrest, 1 PPETyler Park, Yong Hak, 1 AgrSongdo, Korea Parker, Harry Everett, 3 MEOrange Parker, Jesse Granville, 1 EELaredo Parker, Jack Owen, 1 LASan Antonio Parker, John U., 4 IAESherman Parker, William Henry, 4 EEMilford Parmesan, Daniel Joseph, 4 MEHouston Parr, Irvin Glenn, Jr., 3 SciSabinal Parr, William Robert, 2 CERobstown Parrack, Alvin Landus, 1 EEChillicothe Parsons, Chester Nimitz, 3 CEKerrville Patrick, Hubert Starenton, 1 EE Patrick, Sidney Virgil, Jr., 2 ME Patrick, Sidney Virgil, Jr., 2 ME Patrick, Tom Edison, 4 PPEBeaumont Parker, Lawrence Sherman, 3 EE San Antonio Payne, Herschel Howard, 1 VMEl Campo Payne, Herschel Howard, 1 VMEl Campo Payne, Windrow Charles, 1 AgrBryan Payne, W	Pittman, James Lloyd, 2 CE Beaumont Pittman, John Whitney, 2 EE McCamey Pitts, Miller Brown, Jr., 1 EE Sherman Pizzitola. Anthony Vincent, 1 Sci Houston Platzer, Harmon Eugene, 2 EE Kemah Pletcher, George Henry, 1 Land Harlingen Pochmann, Ralph Walter, 1 EE San Antonio San Antonio San Antonio Pocl, Harvie Day, 4 Agr Lubbock Pool. John Lee, 1 EE San Marcos Poole, John Preston, 1 EE Waxahachie Pope, James Willis, 1 Sci Woodville Porcher, John Stoney, 4 Agr El Paso Porter, Albert Walter, 2 AA Karnes City Porter, Daniel Boone, Jr., 4 AA Belton Porter, Harbld Andrew, 1 CE DeKalb Porter, Robert Euclid, Jr., 2 ChE San Antonio Prosey, W. T., 3 AgEd Tehuacana Post, Peakins Gardner, 1 EE San Antonio Praeger, Charles Eustace, 3 Arch Paris Praeger, Walter Dittmar, 2 EE San Antonio Prassel, Frank Gustave, 3 Arch Paris Praeger, Walter Dittmar, 2 EE San Antonio Pratt, Wallace Marvin, 3 ChE Eliasville Price, Lee Harrison, 1 Agr Weslaco Price, Oscar Daniel, 4 CE Garland City, Arkansas Price, Tom Adolph, 3 PPE Kingsville Pridgeon, Theron Omer, 4 AgEd, Cherokee Prove, Roland Hugo, 1 AA Lockhart Puckett, Ray Herbert, 1 EE Brg Lake Pullen, Dick Burnley, 4 LA San Antonio Purvis, Louis Hardy, 1 LA Lufkin Qualls, Thurston Randolph, 4 EE Hillsboro Quigles, Murray Basile, Jr., 1 EE
Pennington, Harry, Jr., 4 PPE Pennington, Thomas, 4 PPE Pennington, Thomas, 4 PPE Pennycuick, James McKay, 3 Agr Crystal City Percy, William Dikeman, 1 CheJonah Perkins, Holloway Wardlow, 3 CheDallas Perkins, James Howard, 4 TEBastrop	Quinn, Tom Dennis, 2 CE
Perrenot, Travis Edward, 1 Agr San Antonio Perrin, Weldon George, 2 ME, San Antonio Persons, Robert John, 2 Agr Bryan Peterson, Malcolm Lawrence, 2 PPE Temple Petree, Ernest Lee, 2 PPE Sour Lake Pettit. Darwin Kirk, 1 Agr Corpus Christi Pharo, Walter Lafayette, 3 EE Weatherford	McAllen Ralls, George Alva, 1 AgEngHouston Raiph, Donald Ray. 4 AgrFarmersville Rambo, Adsit, 2 EE
Pharo, Watter Latayette, 3 EE Weatherford Phillips, Preston D., Jr., 2 ME	Randolph, Uriel Addison, 4 AgrCherokee Randow, Welbert Henry, 1 Agr

	Rawle William Richard 1 ME Rryan	
	Dood Weedness Wilson 1 ME Houston	
	Read, Woodrow Wilson, I ME Houston	
	Reagan, Gervase Dexter, 1 AgrFranklin	
	Rawls, William Richard, 1 MEBryan Read, Woodrow Wilson, 1 MEHouston Reagan, Gervase Dexter, 1 AgrFranklin Reagan, Leslie Joseph, 1 MEPalestine Reagan, Leonard Chandler, Jr., 2 AA	
	Reagan, Leonard Chandler, Jr., 2 AA	
	Forney	
	Rochanthin Clarence Andrew A Agr	
	Rechefichin, Clarence Andrew, 4 Agr	
	Waring	
	Redding, Egbert Forbs, 2 AgEng	
	Rosehud	
	Reed Charles O'Conner 4 AA Relton	
	Deed Free Alter 0 DDF	
	Reed, Euel Alton, 2 PPEBryan	
	Reed, Ernest Jesse, Jr., 2 Arch	
	San Antonio	
	Reed, Joe King, 4 EE Clyde	
	Pood Paul Purton 9 ChF Paul	
	Deal Dela March 1 4 TA 150	
	Reed, Podge McCauley, 4 LAMoody	
	Reed, Roy Clinton, 3 LandMarlin	
	Reed, William James, 2 PPE Houston	
	Rees Fred Herff 1 Arch San Antonio	
	Door William Molean 4 ME Della-	
	Rees, William Nelson, 4 MEDanas	
	neese, Carl Evans, 4 AgrHillsboro	
	Reese, Hurshel James, 1 LA San Antonio	
	Reeves, William Byron, 3 EE Ranger	
	Reichardt Charles Edward 9 AA	
	C A	
	Rechenthin, Clarence Andrew, 4 Agr Redding, Egbert Forbs, 2 AgEng Reed, Charles O'Conner, 4 AA Belton. Reed, Euel Alton, 2 PPE Bryan. Reed, Euel Alton, 2 PPE Bryan. Reed, Euel Alton, 2 PPE Bryan. Reed, Euel Alton, 3 ChE Bowie Reed, Paul Burton, 3 ChE Bowie Reed, Paul Burton, 3 ChE Bowie Reed, Podge McCauley, 4 LA Moody. Reed, Roy Clinton, 3 Land Marlin. Reed, William James, 2 PPE Houston. Rees, Fred Herff, 1 Arch San Antonio. Rees, Fred Herff, 1 Arch San Antonio. Rees, Fred Herff, 1 Arch San Antonio. Rees, William Nelson, 4 ME Dallas. Reese, Carl Evans, 4 Agr Hillsboro. Reese, Hurshel James, 1 LA San Antonio. Reeves, William Byron, 3 EE Ranger. Reichardt, Charles Edward, 2 AA San Antonio. Reichardt, Fred Henry, 4 CE Ft. Sam Houston. Reid, Irvin Ambler, 1 LA College Station. Reid, Irvin Ambler, 1 LA Odeboit, Iowa. Reynolds, Jack Allen, 4 ME Bastrop. Reynolds, Jack Allen, 4 ME Sherman. Reynolds, Morris Shepard, 4 EE Pittsburg. Rhine, George Ruffini, Jr., 3 EE San Antonio. Rhodes, Omar, 3 Sci Houston. Richards, Joe Webster, Jr., 3 Agr Richard. Thomas John, 1 Agr Paducah. Richardson, Glenn Aerl, 1 Agr Moody Richardson, John Robert, 2 CE Sherman. Richmond, Jason Logan, 1 Agr Kyle. Rided, Hermann, B., 3 Arch Stephenville. Rughes Snyings.	
	Reichardt, Fred Henry, 4 CE	
	Ft. Sam Houston	
	Reid, Irvin Ambler, 1 LA College Station	
	Reid Rosson Nat 3 FF Fort Worth	
	Dais John Cooper 9 T.A. Odeleit James	
	Reis, John George, & LA Odeboit, lowa	
	Reynolds, Clyde Martin, 1 AgrBastrop	
	Reynolds, Jack Allen, 4 MESherman	
	Reynolds, Morris Shepard, 4 EE Pittsburg	
	Rhine George Ruffini Ir 2 FF	
	runne, deorge runnin, 91., 9 EE	
•	Bi l San Antonio	
	Rhodes, Omar, 3 SciHouston	
	Richards, Joe Webster, Jr., 3 Agr	
	New Willard	
	Richard Thomas John 1 Agr Paducah	
	Dishardson Class And 1 Am Market	
	Richardson, Glenn Aeri, 1 AgrMoody	
	Richardson, John Robert, 2 CESherman	
	Richmond, Jason Logan, 1 AgrKyle	
	Ridout, Thomas Henry, Jr., 2 EE	
	Port Arthur	
	Pihond Housens D 2 Auch Ctonhonwills	
	Timera, Hermann, B., & Arch Stephenville	- 3
	Riley, Emmett Inomas, I VM	
	Hughes Springs	
	Rinn, Ralph Elliott, 2 AAYoakum	
	Ritter, Clovis Donese, 2 Agr LaFeria	
	Rives C. T. 2 Sci Winton	
	Dood Tomes Dunyon 1 Asy Destan	
	Door Delant James Bunyan, I AgrDecatur	
	Roach, Robert James, Jr., 1 ME, Texas City	
	Roark, Frank Lee, Jr., 4 AACleveland	
	Robbins, Philip Leonard, 2 Sci	
	Goose Creek	-
	Dabbing William Daland 9 DF Creesheels	i
	Robbins, William Roland, 2 REGroesbeck	
	Roberson, Bruce Walter, 2 ChE	
	San Antonio	1
	Roberson, Douglas Buckner, 1 Arch	
	Corpus Christi	1
	Poherson John Wolden A Age Devine	Į.
	Riherd, Hermann, B., 3 Arch Stephenville Riley, Emmett Thomas, 1 VM Hughes Springs Rinn, Ralph Elliott, 2 AA	ď
	Roberts, Edgar Carroll, Z MrDallas	
	Roberts, Garland Elmer, 2 CE, Sweetwater	•
	Roberts, George Edward, Jr., 3 ChE	
	Rocknort	
	Roberts Isak Coleman 2 ME Corrigons	- 3
	Debasts Towns Elter 9 Aged Manuall	
	nobelia, James Liton, 5 Aged Terrell	•
	Roberts, J. Frank, 1 ME Wichita Falls	
	Roberts, John Webster, 1 AgrIrving	1
	Robertson, Arthur Clyde, 2 ME Abilene	- 1
	Robertson John Edward 2 CE Austin	
	Roberts, Garland Elmer, 2 CE, Sweetwater Roberts, George Edward, Jr., 3 ChE Rockport Roberts, Jack Coleman, 2 ME Corsicana Roberts, James Elton, 3 AgEdTerrell Roberts, J. Frank, 1 ME Wichita Falls Roberts, John Webster, 1 Agr Irving Robertson, Arthur Clyde, 2 ME Abilene Robertson, John Edward, 2 CE Austin	

Robeson, Marvin Clyde, 1 Agr ...Centerville Robichaux, Earl Joseph, 3 PPE ...Saratoga Robinson, Alfred Arnold, 4 MEDallas Robinson, Francis Leroy, 2 PPE ...Wellborn Robinson, Jesse Edwin, 4 EESpring Robinson, Lee Edgar, 2 ChEWellborn Robinson, Leonard Ellis, 1 CE ...Sugar Land Roderick, Commy Fuller, Jr., 4 Arch Roderick, Richard, 1 EE Dodd City
Rodgers, J. O., 2 CE Longview
Rodgers, Paul Austin, Jr., 3 Sci Rodgers, Robert James, 1 LA ...Franklin Rodgers, William Cawthon, 1 PPE, Bonham Rodman, Roy Samuel, 2 Land ...Vernon Rodriguez, Alfonso Francisco, 1 EE ... Monterrey, Mexico Rodriguez, Damasco Cavazos, 2 ME Roesner, George Earl, 1 Agr Katy
Rogers, Brooks William, 1 Arch
San Antonio
Rogers, Gerald Raymond, 1 Arch Hearne
Rogers, Marcus Bonham, 3 EE Dallas
Rogers, Warren Brown, 2 VM Kerrville
Rogers, William Rolf, 1 AA Groveton
Rollins, Charles Clinton, Jr., 3 EE

Rollins, Charles Hutson, 1 ME Gulfport
Rollins, James Frank, 2 CE China
Roney, Ben Lemay, 1 ME Hale Center
Roos, Hampus Emanuel, 4 AA Victoria
Roosth, Isadore, 3 ChE Tyler
Roots, Logan Chester, Jr., 3 ChE Denison
Roots, Tom Smith, 2 Arch Marshall
Rosenbush, John E., 3 Agr Houston
Rosenberg, Sam E., 1 Agr La Grange
Ross, George Wilmon, Jr., 1 EE Bryan
Ross, Winfred Graham, 3 EE Gainesville
Rothe, Lawrence August, 1 Agr D'Hanis
Rotrekl, Jerrie Julius, 4 AA Dallas
Rowe, Henry Hilliard, 1 EE Hamlin
Rowley, Douglas, 1 VM Marshall
Rowley, Douglas, 1 VM Marshall
Rowley, Caph Whitaker, 4 ChE Marshall
Rudder, James Earl, 4 IE Eden
Rudder, Marshall Clark, 1 LA Eden
Ruebeck, Christian Henry, Jr., 1 CE Waco
Rulfs, Carl Henry, 3 EE
Runyon, John William, Jr., 2 EE Dallas
Russell, Thomas Carmack, 1 ChE Dallas Runyon, John William, Jr., 2 EE Dallas Russell, Thomas Carmack, 1 ChE Dallas Russell, Walter Doyle, 3 Agr Grarbury Russell, Walter Riddick, 2 ChE Ft. Worth Russi, Robert Wilson, 1 EE Houston Rutledge, John Henry, 2 AA Alice Rutledge, Robert Morton, Jr., 1 ChE Dallas Dallas Ryan, John Harold, 3 ME San Antonio Sadler, Charles Henry, Jr., 2 EE Waco Saenger, Alfred Otto, 4 LA Beaumont Salahattin, Mehmet, 2 Agr Istanbul, Turkey Salas, Manuel, 1 LA Yorktown Salt, Samuel Drayton, 3 EE Ft. Worth Samuels, George Henry, Jr., 3 EEDallasSan Antonio Samuels, Melville, 2 Sci Corsicana Sanchez, Frederico Sanchez. Sp AgrSaltillo, Mexico

Sanders, Rugh Wallace, 1 LA	Sanders, Hugh Wallace, 1 LAHaskell Sanders, Robert William, 4 ChEDallas Sanders, William Olin, Jr., 3 ArchBryan Sandison, Donald C., 4 IAESan Antonio Sapp, William Leroy, 1 Land
	Sargent, Melford Lyndon, 1 Agr
	Sartain, Raymond Robey, 3 CE Greenville Sasse, Bruce Eckhardt, 2 CE San Antonio Satterfield, Walter Edwards, 3 CE Lollas Saunders, Fayette Fentress, 2 EE Dallas Sawyer, Edwin Eugene, 1 EE Sonora Saxon, Merl, 4 EE Lufkin Scarborough, William Edmond, 2 ME Abillene
	Scarpinato, Lee, 1 AA
	Schaefer, George, 2 ChE San Antonio Scharlach, Arthur Benjamin, 4 Agr Bishop
	Scheer, Robert Harold, 4 AgrMarshall Schenck, Charles Plume, Jr., 1 Sci Ft. Worth
	Schepps, Alvin Issie, 4 ChEDallas Schier, Oscar Edward, 1 ChESealy Schirmacher, Theodore Frederick, 1 EEHouston
	Schirmer, Harry Carr, Jr., 4 AAHouston Schlather, James Garfield, 2 ArchCibolo Schlather, Max Felix, 4 MECibolo Schmidt, Lewis Carl, 1 PPE
	Schnick, William Burl, 1 Agr Beaumont Schoenfeld, Charles G., 3 CE San Antonio Schreiber, Harry Julius, 1 ME Galveston Schreiber, Milton Joe, 1 EE Lockhart Schriever, Gerhard John, 1 LA San Antonio
	Schroeter, Herbert William, 2 CE
	Schucany, Oscar William, 2 EELockhart Schultis, George Edward, 1 EE
	Schulz, Westine William, 2 AgrSchulenburg
Scott, Estell William, 3 AgEd Lometa Scott, Frank Stedman, 4 Arch Lometa Scott, Frank Stedman, 4 Arch Little Rock, Ark. Scott, Lawrence Alexander, 2 AA Hull Scruggs, John Haskel, 2 VM Durant, Okla. Seaman, Charles Knight, 4 PPE Houston Seaman, William Henry, 1 Arch Houston Searcy, Cecil Ray, 1 ME Jacksonville Seastrunk, Francis Augusta, 1 EE Abilene Sebastian, Temple Brown, 3 Agr Houston Sebesta, Albert Louis, 4 Agr Marlin Sechrist, Robert Jaycox, 4 AA Marlin Sechrist, Robert Jaycox, 4 AA Dallas Sellers, James Bass, 3 IAE Mexia Sessions, Clyde Dean, 2 ME Wells Sewell, Fred Perry, 4 ME Dallas Shands, Percy Clinton, 1 Agr Forney	
Scott, Lawrence Alexander, 2 AA	Scott, Estell William, 3 AgEd Lometa Scott, Frank Stedman, 4 Arch
	Scott, Lawrence Alexander, 2 AA Hull Scruggs, John Haskel, 2 VM Durant, Okla. Seaman, Charles Knight, 4 PPE Houston Seaman, William Henry, 1 Arch Houston Searcy, Cecil Ray, 1 ME Jacksonville Seastrunk, Francis Augusta, 1 EE Abilene Sebastian, Temple Brown, 3 Agr Houston Sebesta, Albert Louis, 4 Agr Marlin Sechrist, Robert Jaycox, 4 AA Corpus Christi Seeligson, Harry G., II, 2 AA Dallas Sellers, James Bass, 3 IAE Mexia Sessions, Clyde Dean, 2 ME Wells Sewell, Fred Perry, 4 ME Dallas Shands, Percy Clinton, 1 Agr Forney

Shaw, Alpheus Jennings, 2 Sci Henderson Shaw, Don Francis, 3 CE Somerset Shaw, Freddie Marshall, 3 Agr Ennis Shaw, Jim William, 1 PPE Houston Shaw, Millard, 3 CE Weatherford Shear, George, 4 ChE Bryan Shearer, Louis Hollis, 4 PPE San Antonio Sheckles, Jack Weathers, 1 IE Yoakum Sheckles, Robert William Gentry, 4 Agr Yoakum Yoakum Yoakum. Shepherd, George Walter, I AA ...Beaumont Schillingburg, F. C., 1 AgrDublin Shockley, Hepler Fisher, 1 PPEDallas Shone, Louis Albert, Jr., 2 Agr ..El Paso Short, George Washington, 2 Arch Amarillo
Shoultz, James Elwyn, 3 Agr ...Hallsville
Shoup, Robert Ellsworth, 1 Agr .Ft. Worth
Shull, Edwin Matthews, 1 Sci ...Dallas
Shumate, Bruce Emmet, 2 LA ...Houston
Shunkey, Albert Wilson, 1 EE ...Abilene
Sibson, Walter William, 4 Agr Sigler, Wayne Leslie, 3 AA LaFeria
Simmang, Clifford Max, 2 ME
San Antonio
Simms, Clarence Jackson, 4 AA
Simpson Simpson, Newby Clinton, 3 Sci ...Crane Simpson, Raymond Rodell, Jr., 3 EE Simpson, Richard Rains, 1 Agr .El Paso Simpson, William Maurice, 3 AA Sinclair, William Stanley, 1 ME Galveston Sinex, Charles Helm, 1 EE ... Ft. Worth Singleton, Alex, 1 CE ... Dallas Skalnik, Victor Eugene, 1 EE ... League City Skinner, Robert Hill, 1 LA ... Ennis Skripka, Walter Martin, 1 LA ... Rosenberg Slaughter, Henry Warren, 4 ChE ... HendersonCollege Station Smith, Edward James, Jr., 4 Sci Port Arthur Smith, Emit Theodore, 1 ME Nederland Smith, George Joseph, 1 PPE

Smith, Harry Royce, 1 EELiberty Smith, Jefferson Davis, 4 Agr	Steinmann, Weldon Aubrey, 3 AA
Midlothian	Stengel, George Jordan, 1 AgrMenard
Smith, John Forrest, 2 AA	Stengel, George Jordan, I AgrMenard Stenzel, Arthur Henry, I MEHouston Stenzel, Leroy George, 3 IAFHouston Stephens, James Oliver, I METemple Stephens, Lonnie C., 3 ChEGordon Stephens, Richard Sinclair, I CEHouston Stephenson Cleaven 3 ChF Electricity
Smith, John Milton, 2 LA San Antonio	Stenzel, Leroy George, 3 IAE Houston
Smith, John Williamson, 3 VM	Stephens, James Oliver, 1 ME. Temple
Port Arthur	Stephens, Lonnie C., 3 ChE Gordon
Smith, Lawrence Drummand, 1 Agr	Stephens, Richard Sinclair, 1 CE Houston
Bryan	Stephenson, Clayton, 3 ChEFloresville
Smith, Melton, 4 MESulphur Springs	Stephenson, Clayton, 3 ChEFloresville Stephenson, Earnest Robert, 4 Agr
Smith, Morrell Bishop, 1 AgrTroup	Bremond
Smith, Melton, 4 MESulphur Springs Smith, Morrell Bishop, 1 AgrTroup Smith, Oliver Harold, Jr., 3 Arch	Stephenson, Walter Pickett, 4 MEFloresville
welmore	Floresville
Smith, Robert Douglas, Jr., 2 EE Uvalde	Stevens, John Vance, 1 AgrSeymour
Smith, Robert Frazier, 3 AgrClarksville Smith, Richard Marvin, 3 CEHouston	Steves, Edward, I LASan Antonio
Smith, Russell Percy, 3 ArchCorsicana	Stevens, John Vance, I AgrSeymour Steves, Edward, I LASan Antonio Stewart, Lonzo Floyd, 3 AgrTemple Stewart, Sim Brooks, 4 EENew Waverly Stiles. Mayaball Experies.
Smith Samuel Coult 4 ChE Catarina	Stiles, Marshall Francis, Jr., 2 PPE
Smith, Samuel Cecil, 4 ChECatarina Smith, Thomas Masterson, 4_LA	Houston
East Columbia	Stinson, Milton Adrian, 3 AgrItasca
Smith, William Hamilton, Jr., 2 ChE	Stobart, Edward Alexander, 4 EE Orange
Bryan	Stobart, Edward Alexander, 4 EEOrange Stocketon, William Lamar, 2 CETerrell
Smith, Walter Raymond, 2 ChE	Stokes, Henry Clovis, 1 EEBeaumont
Port Arthur	Stone, Charlie Joe, 2 ArchSan Angelo
Smithwick, Thomas Knox, 2 MEGarland	Stone, John Fletcher, 1 MEDallas
Smyre, Guy Jacob, 1 EEFlint	Stone, James William, 2 ME Dallas
Smyth, Joe Grigsby, 1 CEUvalde	Stone, Stephen Philip, 2 AAHouston
Snell, James Harold, Jr., 1 CEDallas	Storey, Bruce Allen, 3 CECameron
Smithwick, Thomas Knox, 2 MEGarland Smyre, Guy Jacob, 1 EE	Stokes, William Lamar, 2 CETerrell Stokes, Henry Clovis, 1 EEBeaumont Stone, Charlie Joe, 2 ArchSan Angelo Stone, John Fletcher, 1 MEDallas Stone, James William, 2 MEDallas Stone, Stephen Philip, 2 AAHouston Storey, Bruce Allen, 3 CECameron Storms, Louis Wilson, Jr., 3 PPE
Snover, Ralph Alexander, Jr., 4 ME	Stout Agron Lee 1 FE Houston
Beaumont	Stringfellow, Jack Clinton, 1 ME Terrell
Sodd William 1 LA Ft. Worth	Stout, Aaron Lee, 1 EE
Soloman, Harry James, 3 AgrBlossom Solovey, Isadore Lee, 3 ChEWaco	Ardmore, Okla.
Solovey, Isadore Lee, 3 ChEWaco	Stromberger, Herman Gus, 3 LA
Sommers, Lawrence Edwin, 2 Ageng	San Antonio
Dallas	Struwe, Charles Edgar, 1 AA Waxahachie
Sommers, Lee Marion, 1 EE San Antonio	Stuart, Omar Guinn, 4 EE College Station
Sorenson, Jerome Wallace, Jr., 1 AgEng Corpus Christi	Stubblefield, Warren Dan, 2 CE
Connella Wanner Douglas 9 DDE Cilmon	Stubba Stanov Milton O AA TT
Sorreils, Warren Douglas, 2 11EGilmer	
Spain Regil Franklin 1 AA Decetur	Sturkie, Paul David, 2 AgEd Proctor
Spain, Basil Franklin, 1 AADecatur	Sturkie, Paul David, 2 AgEdPearne Sturkie, Paul David, 2 Sturer. Emil. 2 CE Shiner
Spain, Basil Franklin, 1 AADecatur Sparks, -Charles Hill, 1 AgrSaltillo Sparks Homer Edward, 2 EE Odessa	Stubbs, Stoney Milton, 2 AAHearne Sturkie, Paul David, 2 AgEdProctor Stuter, Emil, 2 CEShiner Stuteville, Mahlon Venus, 1 AgEd .Cisco
Sorrells, Warren Douglas, 2 PPE Gilmer Spain, Basil Franklin, 1 AADecatur Sparks, Charles Hill, 1 AgrSaltillo Sparks, Homer Edward, 2 EEOdessa Spears, Joe Brooks, 2 AgEdFt. Worth	Sturkie, Paul David, 2 AgEdProctor Sturkie, Emil, 2 CEShiner Stuteville, Mahlon Venus, 1 AgEdCisco Suffel, Paul Henry, 4 AgEdTuleta
	Sturkie, Paul David, 2 AgEdProctor Sturker, Emil, 2 CEShiner Stuteville, Mahlon Venus, 1 AgEdStucker Suffel, Paul Henry, 4 AgEdTuleta Suggg, Robert Leslie, 4 EESan Antonio
Speed, Thomas Lee, 1 ArchMidland Spencer, Henry Cecil, Sp IFCollege Sta.	Stuteville, Mahlon Venus, 1 AgEdCisco Suffel, Paul Henry, 4 AgEdTuleta Suggs, Robert Leslie, 4 EESan Antonio Sulak, Bernard Frank, 3 PPEWest
Speed, Thomas Lee, 1 ArchMidland Spencer, Henry Cecil, Sp IECollege Sta. Spencer, Marston Clyde, 3 EEAmarillo	Stuteville, Mahlon Venus, 1 AgEdCisco Suffel, Paul Henry, 4 AgEdTuleta Suggs, Robert Leslie, 4 EESan Antonio Sulak, Bernard Frank, 3 PPEWest Summers, Strother Struben, 3 Arch
Speed, Thomas Lee, 1 ArchMidland Spencer, Henry Cecil, Sp IECollege Sta. Spencer, Marston Clyde, 3 EEAmarillo	Stuteville, Mahlon Venus, 1 AgEdCisco Suffel, Paul Henry, 4 AgEdTuleta Suggs, Robert Leslie, 4 EE .San Antonio Sulak, Bernard Frank, 3 PPEWest Summers, Strother Struben, 3 Arch
Speed, Thomas Lee, 1 Arch	Stuteville, Mahlon Venus, 1 AgEd
Speed, Thomas Lee, 1 Arch	Stuteville, Mahlon Venus, 1 AgEd
Speed, Thomas Lee, 1 Arch	Stuteville, Mahlon Venus, 1 AgEdCisco Suffel, Paul Henry, 4 AgEdTuleta Suggs, Robert Leslie, 4 EE .San Antonio Sulak, Bernard Frank, 3 PPEWest Summers, Strother Struben, 3 Arch
Speed, Thomas Lee, 1 Arch	Stuteville, Mahlon Venus, 1 AgEdCisco Suffel, Paul Henry, 4 AgEd Tuleta Suggs, Robert Leslie, 4 EESan Antonio Sulak, Bernard Frank, 3 PPEWest Summers, Strother Struben, 3 Arch Ft. Worth Sumner, Vance Davidson, 2 Agr Hillsboro Sutton, Ernest Carlos, 1 Sci Corsicana Swain, Oren, 2 EE Bridgeport
Speed, Thomas Lee, 1 Arch Midland Spencer, Henry Cecil, Sp IECollege Sta. Spencer, Marston Clyde, 3 EEAmarillo Spencer, Ted L., 2 Agr Gilmer Spill, Clarence Barnard, 2 AAWinters Squires, Howard Lynn, 4 MEFt. Worth Sronce, Gus Little, 2 MEColumbus Staffel, Eugene Otto, Jr., 4 ChE	Stuteville, Mahlon Venus, 1 AgEdCisco Suffel, Paul Henry, 4 AgEdTuleta Suggs, Robert Leslie, 4 EE .San Antonio Sulak, Bernard Frank, 3 PPE
Speed, Thomas Lee, 1 Arch Midland Spencer, Henry Cecil, Sp IE . College Sta. Spencer, Marston Clyde, 3 EE . Amarillo Spencer, Ted L., 2 Agr Gilmer Spill, Clarence Barnard, 2 AA Winters Squires, Howard Lynn, 4 ME Ft. Worth Sronce, Gus Little, 2 ME Columbus Staffel, Eugene Otto, Jr., 4 ChE	Stuteville, Mahlon Venus, 1 AgEdCisco Suffel, Paul Henry, 4 AgEdTuleta Suggs, Robert Leslie, 4 EE .San Antonio Sulak, Bernard Frank, 3 PPE
Speed, Thomas Lee, 1 Arch Midland Spencer, Henry Cecil, Sp IE . College Sta. Spencer, Marston Clyde, 3 EE Amarillo Spencer, Ted L., 2 Agr	Stuteville, Mahlon Venus, 1 AgEdCisco Suffel, Paul Henry, 4 AgEdTuleta Sugga, Robert Leslie, 4 EESan Antonio Sulak, Bernard Frank, 3 PPEWest Summers, Strother Struben, 3 Arch
Speed, Thomas Lee, 1 Arch Midland Spencer, Henry Cecil, Sp IE . College Sta. Spencer, Marston Clyde, 3 EE Amarillo Spencer, Ted L., 2 Agr	Stuteville, Mahlon Venus, 1 AgEdCisco Suffel, Paul Henry, 4 AgEdTuleta Sugga, Robert Leslie, 4 EESan Antonio Sulak, Bernard Frank, 3 PPEWest Summers, Strother Struben, 3 Arch
Speed, Thomas Lee, 1 Arch Midland Spencer, Henry Cecil, Sp IE . College Sta. Spencer, Marston Clyde, 3 EE Amarillo Spencer, Ted L., 2 Agr	Stuteville, Mahlon Venus, 1 AgEdCisco Suffel, Paul Henry, 4 AgEdTuleta Suggs, Robert Leslie, 4 EESan Antonio Sulak, Bernard Frank, 3 PPEWest Summers, Strother Struben, 3 ArchFt. Worth Sumner, Vance Davidson, 2 AgrHillsboro Sutton, Ernest Carlos, 1 SciCorsicana Swain, Oren, 2 EEBridgeport. Swank, Archie, 1 ArchWills Point Swanson, Charles Kenneth, 2 EESan Antonio Taggart, William Wilson, 4 ChEDallas Taji, Said Abrahim, 1 AgrWaithunien, Palestine
Speed, Thomas Lee, 1 Arch Midland Spencer, Henry Cecil, Sp IE . College Sta. Spencer, Marston Clyde, 3 EE . Amarillo Spencer, Ted L., 2 Agr	Stuteville, Mahlon Venus, 1 AgEdCisco Suffel, Paul Henry, 4 AgEd Tuleta Suggs, Robert Leslie, 4 EESan Antonio Sulak, Bernard Frank, 3 PPE West Summers, Strother Struben, 3 Arch Ft. Worth Sumner, Vance Davidson, 2 Agr Hillsboro Sutton, Ernest Carlos, 1 Sci Corsicana Swain, Oren, 2 EE Bridgeport Swank, Archie, 1 Arch Wills Point Swanson, Charles Kenneth, 2 EE San Antonio Taggart, William Wilson, 4 ChE Dallas Taji, Said Abrahim, 1 Agr Wadi-Hunien, Palestine Talbott, Ross West, 1 Agr Miles
Speed, Thomas Lee, 1 Arch Midland Spencer, Henry Cecil, Sp IE . College Sta. Spencer, Marston Clyde, 3 EE . Amarillo Spencer, Ted L., 2 Agr	Stuteville, Mahlon Venus, 1 AgEdCisco Suffel, Paul Henry, 4 AgEd Tuleta Suggs, Robert Leslie, 4 EESan Antonio Sulak, Bernard Frank, 3 PPE West Summers, Strother Struben, 3 Arch Ft. Worth Sumner, Vance Davidson, 2 Agr Hillsboro Sutton, Ernest Carlos, 1 Sci Corsicana Swain, Oren, 2 EE Bridgeport Swank, Archie, 1 Arch Wills Point Swanson, Charles Kenneth, 2 EE San Antonio Taggart, William Wilson, 4 ChE Dallas Taji, Said Abrahim, 1 Agr Wadi-Hunien, Palestine Talbott, Ross West, 1 Agr Miles
Speed, Thomas Lee, 1 Arch Midland Spencer, Henry Cecil, Sp IE College Sta. Spencer, Marston Clyde, 3 EE Amarillo Spencer, Ted L., 2 Agr Gilmer Spill, Clarence Barnard, 2 AA Winters Squires, Howard Lynn, 4 ME Ft. Worth Sronce, Gus Little, 2 ME Columbus Staffel, Eugene Otto, Jr., 4 ChE	Stuteville, Mahlon Venus, 1 AgEdCisco Suffel, Paul Henry, 4 AgEd Tuleta Suggs, Robert Leslie, 4 EESan Antonio Sulak, Bernard Frank, 3 PPE West Summers, Strother Struben, 3 Arch Ft. Worth Sumner, Vance Davidson, 2 Agr Hillsboro Sutton, Ernest Carlos, 1 Sci Corsicana Swain, Oren, 2 EE Bridgeport Swank, Archie, 1 Arch Wills Point Swanson, Charles Kenneth, 2 EE San Antonio Taggart, William Wilson, 4 ChE Dallas Taji, Said Abrahim, 1 Agr Wadi-Hunien, Palestine Talbott, Ross West, 1 Agr Miles
Speed, Thomas Lee, 1 Arch Midland Spencer, Henry Cecil, Sp IE College Sta. Spencer, Marston Clyde, 3 EE Amarillo Spencer, Ted L., 2 Agr Gilmer Spill, Clarence Barnard, 2 AA Winters Squires, Howard Lynn, 4 ME Ft. Worth Sronce, Gus Little, 2 ME Columbus Staffel, Eugene Otto, Jr., 4 ChE	Stuteville, Mahlon Venus, 1 AgEdCisco Suffel, Paul Henry, 4 AgEd Tuleta Suggs, Robert Leslie, 4 EESan Antonio Sulak, Bernard Frank, 3 PPE West Summers, Strother Struben, 3 Arch Ft. Worth Sumner, Vance Davidson, 2 Agr Hillsboro Sutton, Ernest Carlos, 1 Sci Corsicana Swain, Oren, 2 EE Bridgeport Swank, Archie, 1 Arch Wills Point Swanson, Charles Kenneth, 2 EE San Antonio Taggart, William Wilson, 4 ChE Dallas Taji, Said Abrahim, 1 Agr Wadi-Hunien, Palestine Talbott, Ross West, 1 Agr Miles
Speed, Thomas Lee, 1 Arch Midland Spencer, Henry Cecil, Sp IE . College Sta. Spencer, Marston Clyde, 3 EE . Maraillo Spencer, Marston Clyde, 3 EE . Maraillo Spencer, Ted L., 2 Agr Gilmer Spill, Clarence Barnard, 2 AA Winters Squires, Howard Lynn, 4 ME Ft. Worth Sronce, Gus Little, 2 ME Columbus Staffel, Eugene Otto, Jr., 4 ChE San Antonio Stanchos, Alvin Arthur Emil, 4 ME Yorktown Stanford, Herbert Harrell, 1 IAE Waxahachie Stanford, Jamie Ayres, 3 EE Fairlie Stansel, Ellis Frederick, 1 Agr Gueydan, Penn. Staples, George Archer, 2 Sci Edna Starcke, Eugene Paul, Jr., 4 EE, Beaumont Starcke, Howard Max, 2 Sci Beaumont	Stuteville, Mahlon Venus, 1 AgEdCisco Suffel, Paul Henry, 4 AgEd Tuleta Suggs, Robert Leslie, 4 EESan Antonio Sulak, Bernard Frank, 3 PPE West Summers, Strother Struben, 3 Arch Ft. Worth Sumner, Vance Davidson, 2 Agr Hillsboro Sutton, Ernest Carlos, 1 Sci Corsicana Swain, Oren, 2 EE Bridgeport Swank, Archie, 1 Arch Wills Point Swanson, Charles Kenneth, 2 EE San Antonio Taggart, William Wilson, 4 ChE Dallas Taji, Said Abrahim, 1 Agr Wadi-Hunien, Palestine Talbott, Ross West, 1 Agr Miles
Speed, Thomas Lee, 1 Arch Midland Spencer, Henry Cecil, Sp IE . College Sta. Spencer, Marston Clyde, 3 EE . Maraillo Spencer, Marston Clyde, 3 EE . Maraillo Spencer, Ted L., 2 Agr Gilmer Spill, Clarence Barnard, 2 AA Winters Squires, Howard Lynn, 4 ME Ft. Worth Sronce, Gus Little, 2 ME Columbus Staffel, Eugene Otto, Jr., 4 ChE San Antonio Stanchos, Alvin Arthur Emil, 4 ME Yorktown Stanford, Herbert Harrell, 1 IAE Waxahachie Stanford, Jamie Ayres, 3 EE Fairlie Stansel, Ellis Frederick, 1 Agr Gueydan, Penn. Staples, George Archer, 2 Sci Edna Starcke, Eugene Paul, Jr., 4 EE, Beaumont Starcke, Howard Max, 2 Sci Beaumont	Stuteville, Mahlon Venus, 1 AgEdCisco Suffel, Paul Henry, 4 AgEd Tuleta Suggs, Robert Leslie, 4 EESan Antonio Sulak, Bernard Frank, 3 PPEWest Summers, Strother Struben, 3 Arch
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Speed, Thomas Lee, 1 Arch Midland Spencer, Henry Cecil, Sp IE . College Sta. Spencer, Marston Clyde, 3 EE . Amarillo Spencer, Ted L., 2 Agr	Stuteville, Mahlon Venus, 1 AgEdCisco Suffel, Paul Henry, 4 AgEd Tuleta Suggs, Robert Leslie, 4 EE San Antonio Sulak, Bernard Frank, 3 PPE West Summers, Strother Struben, 3 Arch Ft. Worth Summers, Strother Struben, 3 Arch Hillsboro Sutton, Ernest Carlos, 1 Sci Corsicana Swain, Oren, 2 EE Bridgeport Swank, Archie, 1 Arch Wills Point Swanson, Charles Kenneth, 2 EE San Antonio Taggart, William Wilson, 4 ChE Dallas Taji, Said Abrahim, 1 Agr Wadi-Hunien, Palestine Talbott, Ross West, 1 Agr Miles Tansil, Beryl Ferdinand, 2 CM Dallas Tarver, Jack McLane, 3 AA Rosebud Taylor, Charlie Andrew, 4 Agr Dublin Taylor, Carl Goodwin, 1 ChE Ysleta Taylor, David Frank, 3 EE
Speed, Thomas Lee, 1 Arch Midland Spencer, Henry Cecil, Sp IECollege Sta. Spencer, Marston Clyde, 3 EEMaraillo Spencer, Ted L., 2 Agr	Stuteville, Mahlon Venus, 1 AgEdCisco Suffel, Paul Henry, 4 AgEdTuleta Suggs, Robert Leslie, 4 EESan Antonio Sulak, Bernard Frank, 3 PPEWest Summers, Strother Struben, 3 ArchFt. Worth Sumner, Vance Davidson, 2 AgrHillsboro Sutton, Ernest Carlos, 1 SciCorsicana Swain, Oren, 2 EE
Speed, Thomas Lee, 1 Arch Midland Spencer, Henry Cecil, Sp 1E College Sta. Spencer, Marston Clyde, 3 EE Amarillo Spencer, Ted L., 2 Agr Gilmer Spill, Clarence Barnard, 2 AA Winters Squires, Howard Lynn, 4 ME Ft. Worth Sronce, Gus Little, 2 ME Columbus Staffel, Eugene Otto, Jr., 4 ChE Staffel, Eugene Otto, Jr., 4 ChE Stanchos, Alvin Arthur Emil, 4 ME Yorktown Stanchos, Alvin Arthur Emil, 1 IAE Worth Stanchof, Jamie Ayres, 3 EE Fairlie Stansel, Ellis Frederick, 1 Agr Gueydan, Penn. Staples, George Archer, 2 Sci Edna Starcke, Howard Max, 2 Sci Beaumont Starcke, Howard Max, 2 Sci Beaumont Starcke, James Lester, 2 EE Corpus Christi Steele, William Ernest, 3 EE Alvin Stefani, Harry Costantino, 2 AA Galveston	Stuteville, Mahlon Venus, 1 AgEdCisco Suffel, Paul Henry, 4 AgEd Tuleta Suggs, Robert Leslie, 4 EE San Antonio Sulak, Bernard Frank, 3 PPE West Summers, Strother Struben, 3 Arch
Speed, Thomas Lee, 1 Arch Midland Spencer, Henry Cecil, Sp IECollege Sta. Spencer, Marston Clyde, 3 EEMaraillo Spencer, Ted L., 2 Agr	Stuteville, Mahlon Venus, 1 AgEdCisco Suffel, Paul Henry, 4 AgEdTuleta Suggs, Robert Leslie, 4 EESan Antonio Sulak, Bernard Frank, 3 PPEWest Summers, Strother Struben, 3 ArchFt. Worth Sumner, Vance Davidson, 2 AgrHillsboro Sutton, Ernest Carlos, 1 SciCorsicana Swain, Oren, 2 EE

Taylor, Murell Kenton, 3 EE	Tumlinson, Lonnie Nixon, 2 Agr San Juan
Mount Pleasant	Turbeville, Lester Edwin, 2 Agr Yoakum Turner, Cullen Yeates, 1 PPEFt. Worth
Taylor, Noble James, 1 PPETahoka	Turner, Cullen Yeates, 1 PPEFt. Worth
Taylor, Robert, Suttle, 1 EECorsicana	Turner, James Bivins, 4 CELongview Turner, Lloyd B., 3 PPEHouston Turner, Levi Seymour, 1 EEDaingerfield
Taylor, William Oscar, 2 LAGroesbeck	Turner, Lloyd B., 3 PPEHouston
Taylor, Noble James, 1 PPE	Turner, Levi Seymour, 1 EEDaingerfield
Teal, Edwin Trout, 1 MEDallas	Turner, Wesley Hunter, 2 ChE Longview Turrentine, Charles Donald, 4 IAE
	Turrentine, Charles Donald, 4 IAE
Templeton, Milton Burns, 1 Agr Dublin Terrell, Thomas Henry, 1 CE El Paso Terrell, Wiliam Randolph, 1 EE	Uhr, Robert Jone, 2 EE San Antonio Uhr, Tom Lloyd, 3 EE San Antonio Ullir ch Flwyn Charles 2 Arch
Terrell, Thomas Henry, 1 CE El Paso	Uhr, Robert Jone, 2 EESan Antonio
Terrell Wiliam Randolph, 1 EE	Uhr, Tom Lloyd, 3 EESan Antonio
Beaumont	Ullrich, Elwyn Charles, 2 Arch
Thayton Hugh Barber, 4 Agr. Cherokee	Underwood, Claude Wesley, 2 MEDenton
Thaxton, Hugh Barber, 4 AgrCherokee Theile, Erich Frank, 1 AgrClifton	Underwood, Claude Wesley, 2 ME Denton
Thigpin, Robert Loren, 2 AgEngAustin	Underwood, Sam John, 1 Agr. Denton
Thomas Frank 2 AA Osceola	Underwood, Sam John, 1 AgrDenton Upchurch, John Wright, 2 VMMart
Thomas, Frank, 2 AAOsceola Thomas, Frank Graham, 3 PPE	Vahrenkamp, Robert Henry, 3 AgEng
Wichita Falls	Killeen
Thomas, Gerald Gaines, 3 Arch Beaumont	Valek, George Charles, 3 ME. Ennis
Thomas, John Causby, 1 Arch	Valek, George Charles, 3 ME Ennis Valek, Leonard, 1 EE Shiner Valle, Paul Diego, 1 ChE Rio Grande
Inomas, John Causby, I Arch	Valle Paul Diogo 1 ChE Rio Grando
San Augustine	Vallee Edward Hunter 1 LA Resument
Thomasson, Arthur Raymond, Jr., 1 Sci	Vence Pohert Stephen 1 I.A Townskans
The Danie 9 ChF	Vallee, Edward Hunter, 1 LABeaumont Vance, Robert Stephen, 1 LATexarkana Van Court, Hawley Allen, 2 AA
Thomasson, Edward Dennis, 3 ChE	Van Court, Hawley Allen, 2 AA
BU LOUISVIIIE, Ky.	Van de Putte, Charles, 2 TE Brownsville
Thompson, Albert William, 1 CEKaty	Van Eaton, Raymond Andrew, 3 PPE
Thompson, George Alexander, 1 PPE	TT A
Shreveport, La.	Vanck Frank Lorenh 1 CF Planete
Thompson, Henry Durward, 4 Land	Van Zandt Lowell 2 FF Zanham
Beeville	VanZandt, Bowell, Z EEZepnyr
Thompson, Louis Milton, 1 Agr	Vanek, Frank Joseph, 1 CE
Throckmorton	Varnell, Donald Dexter, 2 PPE Barry
Thompson, Reiben Raipn, 3 Agr Hubbard	Vaurbon Coomes Dunton 1 DDE Water
Thompson, Reuben Ralph, 3 Agr. Hubbard Thompson, William Moses, 1 VM	Vaughan, George Burton, 1 PPEKaty Vaughan, Thomas Worth, 3 MEJonesville
Winn sooro	Vale William Ocean 2 TA
Thorn, Elbert Gunter, 2 ChE Smithville	Vela, William Uscar, 2 LALaredo
Thorn, Elbert Gunter, 2 ChE Smithville Threadgill, Cecil, 2 PPE Taylor Thurman, Floyd, 2 Agr Cisco Tibbits, James Archie, 2 Arch Sour Lake Tilley, Clarence Story, 2 CE Ft. Worth Timm, Tyrus Raymond, 2 AA	Vela, William Oscar, 2 LA Laredo Veltman, Lester Henry, 4 LA
Thurman, Floyd, 2 Agr	Vanail Chaman I A C. Di
Tibbits, James Archie, 2 Arch Sour Lake	Venen, Sherman Lee, 4 SciPlainview
Tilley, Clarence Story, 2 CEFt. Worth	Vencil, Sherman Lee, 4 SciPlainview Vento, Pedro Crisologo, 2 MEMercedes Vesm.rovsky, William James, 1 CEMiles
Timm, Tyrus Raymond, 2 AA	Veshirovsky, William James, I CE Miles
Hallettsville	Vick, Roy McMahan, 1 MEBryan
Tindell, Clyde, 2 AA	Villarreal, Leonelo Hector, 2 EE
Tipton, Zeke, Z LAFt. Worth	
	Vinthon Mousia Elter 1 EE Comma, Mex.
Tisdale, Charles Atton, I AgrEden	Vinther Maurice Elton 1 FF Commeteurs
Tisdale, Charles Atton, 1 AgrColeman	Vinther Maurice Elton 1 FF Commeteurs
Tisdale, Charles Atton, 1 AgrEden Tisdale, William Roy, 2 AgrColeman Tisinger, David Loving, 1 ChEGarland	Vinther Maurice Elton 1 FF Commeteurs
Tisdale, Charles Atton, I AgrEden Tisdale, William Roy, 2 AgrColeman Tisinger, David Loving, 1 ChEGarland Tittle, Willis Herbert, Jr., 1 VM	Vinther. Maurice Elton, 1 EE Georgetown Voelkel, Travis Traugott, 1 Agr . Shelby Vol:, Arthur Charles, 3 EEMission VonRoeder, Rudolph Joachim, 4 Agr
Timm, 19rus Raymond, 2 AA Hallettsville Tindell, Clyde, 2 AA Rosebud Tipton, Zeke, 2 LA Ft. Worth Tisdale, Charles Afton, 1 Agr Eden Tisdale, William Roy, 2 Agr Coleman Tisinger, David Loving, 1 ChE Garland Tittle, Willis Herbert, Jr., 1 VM Childress	Vinther. Maurice Elton, 1 EEGeorgetown Voelkel, Travis Traugott, 1 Agr . Shelby Vol:, Arthur Charles, 3 EEMission VonRoeder, Rudolph Joachim, 4 Agr Vorktown
Tisdale, Charles Atton, I AgrEden Tisdale, William Roy, 2 AgrColeman Tisinger, David Loving, 1 ChEGarland Tittle, Willis Herbert, Jr., 1 VM	Vinther. Maurice Elton, 1 EE Georgetown Voelkel, Travis Traugott, 1 Agr Shelby Vol:, Arthur Charles, 3 EE Mission VonRoeder, Rudolph Joachim, 4 Agr Yorktown Voss Thomas Edwin 1 Agr Poet
Tisdale, Charles Arton, I AgrEden Tisdale, William Roy, 2 AgrColeman Tisinger, David Loving, 1 ChEGarland Tittle, Willis Herbert, Jr., 1 VM	Vinther. Maurice Elton, 1 EE Georgetown Voelkel, Travis Traugott, 1 Agr Shelby Vol:, Arthur Charles, 3 EE Mission VonRoeder, Rudolph Joachim, 4 Agr Yorktown Voss Thomas Edwin 1 Agr Poet
Tisdale, Charles Arton, I Agr	Vinther, Maurice Elton, 1 EE Georgetown Voelkel, Travis Traugott, 1 Agr Shelby Vol., Arthur Charles, 3 EE
Tisdale, Charles Arton, I AgrEden Tisdale, William Roy, 2 AgrColeman Tisinger, David Loving, 1 ChEGarland Tittle, Willis Herbert, Jr., 1 VM	Vinther, Maurice Elton, 1 EE Georgetown Voelkel, Travis Traugott, 1 Agr Shelby Vol., Arthur Charles, 3 EE
Tobin, Jet Harold, 2 MEPilot Point Tobin, Robert Bates, 2 MEPilot Point Torrans, Claude Ward, 2 METyler Tosch, Charles Adolph, 2 AgrMesquite Tottenham, Woodson Miller, 1 PPE	Vinther, Maurice Elton, 1 EE Georgetown Voelkel, Travis Traugott, 1 Agr Shelby Vol., Arthur Charles, 3 EE
Tobin, Jet Harold, 2 ME	Vinther, Maurice Elton, 1 EE Georgetown Voelkel, Travis Traugott, 1 Agr Shelby Vol., Arthur Charles, 3 EE
Tobin, Jet Harold, 2 ME Pilot Point Tobin, Robert Bates, 2 ME Pilot Point Torrans, Claude Ward, 2 ME Tyler Tosch, Charles Adolph, 2 Agr Mesquite Tottenham, Woodson Miller, 1 PPE Hempstead Towery, Charles Dixon, 4 ChE Crockett	Vinther, Maurice Elton, 1 EE Georgetown Voelkel, Travis Traugott, 1 Agr Shelby Vol., Arthur Charles, 3 EE
Tobin, Jet Harold, 2 ME Pilot Point Tobin, Robert Bates, 2 ME Pilot Point Torrans, Claude Ward, 2 ME Tyler Tosch, Charles Adolph, 2 Agr Mesquite Tottenham, Woodson Miller, 1 PPE Hempstead Towery, Charles Dixon, 4 ChE Crockett	Vinther. Maurice Elton, 1 EE Georgetown Voelkel, Travis Traugott. 1 Agr Shelby Vol:, Arthur Charles, 3 EE Mission VonRoeder, Rudolph Joachim, 4 Agr Yorktown Voss. Thomas Edwin, 1 Agr Post Vowell. Jim Dent, 1 Arch Dalhart Wakefield, Gerald Alan, 1 AgEd Madisonville Walker, John Francis, 1 ChE Lowa Park Walker, Jack Kenneth, 1 EE Ft. Worth Walker, Oliver Paxton, 2 EE Ft. Worth Walker, Thomas Wiley, 3 PPE Ft. Worth
Tobin, Jet Harold, 2 ME	Vinther. Maurice Elton, 1 EE Georgetown Voelkel, Travis Traugott, 1 Agr Shelby Vol:, Arthur Charles, 3 EE Mission VonRoeder, Rudolph Joachim, 4 Agr Yorktown Voss. Thomas Edwin, 1 Agr Post Vowell, Jim Dent, 1 Arch Dalhart Wakefield, Gerald Alan, 1 AgEd Madisonville Walker, John Francis, 1 ChE Jowa Park Walker, Jack Kenneth, 1 EE Ft. Worth Walker, Oliver Paxton, 2 EE Ft. Worth Walker, Thomas Wiley, 3 PPE Ft. Worth Walker, Weldon Ferdinand, 1 CE
Tobin, Jet Harold, 2 ME	Vinther. Maurice Elton, 1 EE Georgetown Voelkel, Travis Traugott, 1 Agr Shelby Vol:, Arthur Charles, 3 EE Mission Von Roeder, Rudolph Joachim, 4 Agr Yorktown Voss. Thomas Edwin, 1 Agr Dalhart Vowell. Jim Dent, 1 Arch Makefield, Gerald Alan, 1 AgEd Madisonville Walker, John Francis, 1 ChE Lowa Park Walker, Jack Kenneth, 1 EE Ft. Worth Walker, Cliver Paxton, 2 EE Ft. Worth Walker, Thomas Wiley, 3 PPE Ft. Worth Walker, Weldon Ferdinand, 1 CE
Tobin, Jet Harold, 2 ME	Vinther. Maurice Elton, 1 EE Georgetown Voelkel, Travis Traugott, 1 Agr Shelby Vol:, Arthur Charles, 3 EE Mission VonRoeder, Rudolph Joachim, 4 Agr Yorktown Voss. Thomas Edwin, 1 Agr Post Vowell, Jim Dent, 1 Arch Dalhart Wakefield, Gerald Alan, 1 AgEd Malker, John Francis, 1 ChE Iowa Park Walker, Jack Kenneth, 1 EE Ft. Worth Walker, Oliver Paxton, 2 EE Ft. Worth Walker, Thomas Wiley, 3 PPE Ft. Worth Walker, Weldon Ferdinand, 1 CE Stamford Wallace, Gilbert David, 1 Agr Wheelock Wheelock
Tobin, Jet Harold, 2 ME	Vinther. Maurice Elton, 1 EE Georgetown Voelkel, Travis Traugott, 1 Agr Shelby Vol:, Arthur Charles, 3 EE Mission VonRoeder, Rudolph Joachim, 4 Agr Yorktown Voss. Thomas Edwin, 1 Agr Post Vowell, Jim Dent, 1 Arch Dalhart Wakefield, Gerald Alan, 1 AgEd Malker, John Francis, 1 ChE Jowa Park Walker, Jack Kenneth, 1 EE Ft. Worth Walker, Oliver Paxton, 2 EE Ft. Worth Walker, Universely 1 EF. Worth Walker, Weldon Ferdinand, 1 CE Stamford Wallace, Gilbert David, 1 Agr Wheelock Wallace, James Lucius, 2 Sci
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Tobin, Jet Harold, 2 ME	Vinther. Maurice Elton, 1 EE Georgetown Voelkel, Travis Traugott. 1 Agr Shelby Vol:, Arthur Charles, 3 EE Mission VonRoeder, Rudolph Joachim, 4 Agr Yorktown Voss. Thomas Edwin, 1 Agr Post Vowell, Jim Dent, 1 Arch Makefield, Gerald Alan, 1 AgEd Madisonville Walker, John Francis, 1 ChE Lowa Park Walker, John Francis, 1 ChE Lowa Park Walker, Oliver Paxton, 2 EE Ft. Worth Walker, Thomas Wiley, 3 PPE Ft. Worth Walker, Weldon Ferdinand, 1 CE Stamford Wallace, Gilbert David, 1 Agr Mheelock Wallace, James Lucius, 2 Sci Madisonville Wallace, Thomas Harry, 1 CE Houston Walton, James Ivan, 2 EE Yoakum Wanja, Lawrence Frank, 4 EE Wiemar Want, Virgil Dee, 4 EE San Antonio Ward, Delbert Russell, 4 CE Harlingen
Tobin, Jet Harold, 2 ME	Vinther. Maurice Elton, 1 EE Georgetown Voelkel, Travis Traugott, 1 Agr Shelby Vol:, Arthur Charles, 3 EE Mission VonRoeder, Rudolph Joachim, 4 Agr Yorktown Voss. Thomas Edwin, 1 Agr Post Vowell, Jim Dent, 1 Arch Dalhart Wakefield, Gerald Alan, 1 AgEd Malker, John Francis, 1 ChE Iowa Park Walker, Jack Kenneth, 1 EE Ft. Worth Walker, Oliver Paxton, 2 EE Ft. Worth Walker, Thomas Wiley, 3 PPE Ft. Worth Walker, Weldon Ferdinand, 1 CE Stamford Wallace, Gilbert David, 1 Agr Wheelock Wallace, James Lucius, 2 Sci Madisonville Walker, James Ivan, 2 EE Yoskum Wanja, Lawrence Frank, 4 EE Wiemar Want, Virgil Dee, 4 EE San Antonio Ward, Delbert Russell, 4 CE Harlingen Warden, John Ashley, Jr., 1 EE
Tobin, Jet Harold, 2 ME	Vinther. Maurice Elton, 1 EE Georgetown Voelkel, Travis Traugott, 1 Agr Shelby Vol:, Arthur Charles, 3 EE Mission Von Roeder, Rudolph Joachim, 4 Agr Yorktown Voss. Thomas Edwin, 1 Agr Dalhart Walkel, Jim Dent, 1 Arch Madisonville Walker, John Francis, 1 ChE Lowa Park Walker, Jack Kenneth, 1 EE Ft. Worth Walker, Oliver Paxton, 2 EE Ft. Worth Walker, Thomas Wiley, 3 PPE Ft. Worth Walker, Weldon Ferdinand, 1 CE Stamford Wallace, Gilbert David, 1 Agr Wheelock Wallace, James Lucius, 2 Sci Madisonville Walkon, James Ivan, 2 EE Yoakum Wanja, Lawrence Frank, 4 EE Wiemar Wanja, Lawrence Frank, 4 EE Wiemar Want, Virgil Dee, 4 EE San Antonio Ward, Delbert Russell, 4 CE Harlingen Warden, John Ashley, Jr., 1 EE Chicago, Ill.
Tobin, Jet Harold, 2 ME	Vinther. Maurice Elton, 1 EE Georgetown Voelkel, Travis Traugott, 1 Agr Shelby Vol:, Arthur Charles, 3 EE Mission VonRoeder, Rudolph Joachim, 4 Agr Yorktown Voss. Thomas Edwin, 1 Agr Post Vowell, Jim Dent, 1 Arch Makefield, Gerald Alan, 1 AgEd Madisonville Walker, John Francis, 1 ChE Lowa Park Walker, Jack Kenneth, 1 EE Ft. Worth Walker, Oliver Paxton, 2 EE Ft. Worth Walker, Thomas Wiley, 3 PPE Ft. Worth Walker, Weldon Ferdinand, 1 CE Stamford Wallace, Gilbert David, 1 Agr Wheelock Wallace, James Lucius, 2 Sci Madisonville Walker, Thomas Harry, 1 CE Houston Walton, James Ivan, 2 EE Yoakum Wanja, Lawrence Frank, 4 EE Wiemar Want, Virgil Dee, 4 EE San Antonio Ward, Delbert Russell, 4 CE Harlingen Warden, John Ashley, Jr., 1 EE Chicago, Ill. Wardlaw, Herbert Rogers, 1 AA
Tobin, Jet Harold, 2 ME	Vinther. Maurice Elton, 1 EE Georgetown Voelkel, Travis Traugott, 1 Agr Shelby Vol:, Arthur Charles, 3 EE Mission VonRoeder, Rudolph Joachim, 4 Agr Yorktown Voss. Thomas Edwin, 1 Agr Post Vowell, Jim Dent, 1 Arch Dalhart Wakefield, Gerald Alan, 1 AgEd Malker, John Francis, 1 ChE Iowa Park Walker, Jack Kenneth, 1 EE Ft. Worth Walker, Oliver Paxton, 2 EE Ft. Worth Walker, Thomas Wiley, 3 PPE Ft. Worth Walker, Weldon Ferdinand, 1 CE Stamford Wallace, Gilbert David, 1 Agr Wheelock Wallace, James Lucius, 2 Sci Madisonville Walker, James Ivan, 2 EE Yoskum Wanja, Lawrence Frank, 4 EE Wiemar Want, Virgil Dee, 4 EE San Antonio Ward, Delbert Russell, 4 CE Harlingen Warden, John Ashley, Jr., 1 EE

Warren, Clifton Court, 4 Agr San Antonio Warren, Charles William, 1 ME Galveston Warren, Kirby Jay, 3 CE Evant Workington Court, 2 Court, 2 Avvin	Wiley, Thomas Wal
Wormen Charles William 1 MF Calmeter	Wilkinson, James
Warren, Charles William, 1 MEGaiveston	Willard, John Henn
Washington, Courtenay Carven, 2 Arch	Willard, Philip Gor
Washington, Courtenay Carven, 2 Arch Galveston Watson, Gerald, 1 Agr Buda Watson, John William, 4 AA San Marcos Watson, Wade Morris, 2 ME Longview Watson, Warren Orear, 1 AA Gladewater Watt, Donald Gibbs, 1 LA San Antonio Watts, Albert Byron, 3 LA San Antonio Watts, Richard George, 4 CE Dallas Weatherby, Edward Pace, 2 ME Dallas Weatherby, Edward Pace, 2 ME Dallas Weatherford, Lynn Charles, 1 Arch Dallas Weaver, John Edward, 2 EE Refugio Weaver, Thomas McKenna, 2 Agr Dallas Webb, Frank Law, 1 LA Bryan	***************************************
Watson, Gerald, 1 AgrBuda	Willenbrock, Raymo
Watson, John William, 4 AA San Marcos	Williams, Clay Cha Williams, Ernest L
Watson, Wade Morris, 2 MELongview	
Watt Donald Cibbs 1 I A	Williams, George 1
Los Angeles Colif	winiams, deorge I
Watts, Albert Byron, 3 LASan Antonio	Williams, George Sa
Watts, Richard George, 4 CEDallas	Williams, Judge Sta Williams, Raymond, Williams, Pickl Fre
Weatherby, Edward Pace, 2 MEDallas	Williams, Raymond,
Weatherby, James Lee, 1 LADallas	Williams, Riehl Err Williams, Stuart Si
Weatherford, Lynn Charles, 1 ArchDallas	Williams, Stuart Si
Weaver, John Edward, 2 EE Refugio	Williams, Walter I
Webh Fronk Low 1 IA Davin	Willis, Nicholas Wi
Webb Lester Ira 3 RE Flatonia	
Weber, Earle Thomas, 2 AA Nivon	Willson, Elmer Jone Wilson, Carl, 2 Ag Wilson, Cy, 2 PPI Wilson, Francis Ed
Weber, George Herman, 2 Arch Houston	Wilson, Carl, 2 Ag
Wedegartner, Van Dorn, 2 CE San Benito	Wilson, Cy, 2 PP
Wehner, Frederick W. H., 1 EEDel Rio	Wilson, Francis Edv
Weaver, Thomas McKenna, 2 Agr. Dallas Webb, Frank Law, 1 LA	Wilson, Francis Wi
Wehrman, Jack Knighton, 2 EE Brenham	Wilson, George Isaa
Well, Alex, Jr., 4 Agr Corpus Christi	Wilson, Francis Wi Wilson, George Isaa Wilson, Harry Andr Wilson, John Morri
Sen Antonio	Wilson, James Woo
Welch, Tom Jesse, 1 TE Port Neches	Wilson, Malcolm Le
Weller, William Olen, 2 MEBrownsville	Wilson, Malcolm Le Wilson, Walter Alvi
Wells, Jack Worden, 3 ChE Aransas Pass	Wimberley, James D
Wells, Rexford, 3 AARosebud	
Wehrman, Jack Knighton, 2 EE Brenham Weil, Alex, Jr., 4 Agr Corpus Christi Weilbacher, Henry John, 1 LA San Antonio Welch, Tom Jesse, 1 TE Port Neches Weller, William Olen, 2 ME Brownsville Wells, Jack Worden, 3 ChE Aransas Pass Wells, Rexford, 3 AA Rosebud Wendler, Henry Clarence, 2 AA Boerne Wenmohs, John Reinhold, 4 AA Marble Falls Werner, Peter Vance, 1 PPE Marble Falls Werner, Peter Vance, 1 PPE Hempstead West, Jack, Jr., 1 RE Harlingen West, William Carl, 1 Agr Olney Westbrook, Joe Weldon, 4 Land Ft. Worth	Wimberly, Carter, 2
wenmons, John Reinhold, 4 AA	Winder, John Ernes
Werner Peter Vance 1 DDF Hammatand	Windrow, Don Albe
West, Jack, Jr. 1 RE Harlingen	Wingo, David S., 4 Winkler, Charles Her
West, William Carl. 1 Agr Olney	
Westbrook, Joe Weldon, 4 Land Ft. Worth Westerman, Harry Koger, 2 Agr Llano Weston, William Ray, Jr., 2 CE	Winslow, Clark Jam
Westerman, Harry Koger, 2 AgrLlano	
Weston, William Ray, Jr., 2 CE	Winslow, John Mille
Wetmore, Harry Davis, Jr., 1 ME	Winston, Joseph Blad Winters, Adam Davi Wizig, Abe, 4 ChE
wetmore, narry Davis, Jr., 1 ME	Wizig Abe 4 ChE
Whaley, Bert Kirkman 3 ME Dallas	Wofford, Henry Rol
Whaley, Bert Kirkman, 3 ME Dallas Wharton, Harry Graham, Jr., 4 Arch San Antonio White, Clayton Monroe, 2 CE Camp Normoyle White, Frank Marion, 4 Agr Littlefield	***************************************
San Antonio	Wolcott, John Melvin
White, Clayton Monroe, 2 CE	Wolf, Kivie, 1 EE Wolf, William Mon
	Wolf, William Mon
White, Frank Marion, 4 AgrLittlefield	W
White Pohort Ford 2 FT Con Antonio	Womble, John Frank Wood, Thurman Aud
White Samuel Ebb 1 PPF Temple	Wood, Indrinan Add
White William Howell 3 ME Dallas	Wood, Walter Lee, 1
Whitehead, Jack Owen, 1 VM Smith Point	Wood, William Prest
Whiteley, Thad Elmo, 1 Agr Georgetown	
White, Frank Marion, 4 AgrLittlefield White, James Leon, 2 LA .Shreveport, La. White, Robert Earl, 2 EESan Antonio White, Samuel Ebb, 1 PPETemple White, William Howell, 3 MEDallas Whitehead, Jack Owen, 1 VM .Smith Point Whiteley, Thad Elmo, 1 Agr .Georgetown Whitfield, Hervey Haydon, 2 PPE Houston Whitman, Worsham Carroll, 2 CEBowie Whitmire, Harwell Callaway, 3 AgrMidland	Woodall, Harry Lee,
Whitman, Worsham Carroll, 2 CE Bowie	*** 11 1 0 11 0 1
Whitmire, Harwell Callaway, 3 Agr	Woodland, Sully Swi Woods, Sam, 3 CE
Midland Miles Wiles Widond	Woods, Sam, 5 CE Woodward, Jack Spi
Whitmore Fletcher Ames Sn TA	Woodward, sack Sp
College Station	Word, Mendel Booth,
Whitsitt. Charles Dalton, 3 RE Shannon	Worden, Robert Fra
Wicker, Edward Henry, 1 CM	
Whitmire, Harwell Callaway, 3 Agr	Worley, John Aaron Worley, James Darne
Wiedermann, Bernard, 3 ME New Braunfels Wilbanks, Russell Dean, 1 AgEd Walnut Springs	Worley, James Darne
New Braunfels	Wortham, William
Walnut Springe	Worthington, Richard Wotipka, Eli Oscar,
want opings	,,

lter, 2 Agr McKinney
H., Jr., 2 EE
Dangerfield
ry, 2 AA Giddings
rdon, 1 Arch
San Antonio
arles, 1 Agr Dexter
Leroy, 3 Agr
Carrizo Springs
Harvey, 1 ChE
San Antonio
amuel, 2 EE Ft. Worth muel, 2 EE .Ft. Worth
anley, 1 CE ...Amarillo
1, 1 EE ...Port Arthur
nest, 2 AgrHart
idney, 1 EE ...Winters
Belford, 3 CE Greenville San Antonio es, 3 CESherman es, 3 CE Sherman

r Moore
E Longview
ward, 2 ChE Dallas
liliam, 2 Sci Luling
ac, 1 Sci Hondo
rew, 2 ChE Wharton
is, 2 PPE Luling
drow, 1 ME Dallas
ee, 3 ME Princeton
in, 2 VM McKinney
Daniel, Jr., 1 ME
2 AA Houston AAHouston t, 1 MEDallas ert, 1 Agr Hondo
AA Wills Point
rman, Jr., 1 Sci.
College Station es, Jr., 2 Sci. Galveston
er, 4 Agr Menard
ke, 4 CE Dallas
is, 2 EE Nederland Waco
llins, Jr., 4 Sci
San Antonio
n, 1 ChE Big Spring Eastland
roe, 4 ME
Corpus Christi
k, 1 Land
Richland Springs
Richland Springs Richland Springs
CM Waco
ton, 1 CE San Augustine Port Arthur
innea, 3 RE Edna
Amarillo
urgeon, 2 EE
Brownwood
, 2 ChE Port Arthur
ancis, 3 ChE
Hillsboro, N. M.
, 2 Arch Dallas
ell, 1 Agr Shamrock
Nels, 2 CE Waco
d Allen, 1 EE Dallas
, 2 AA Smithville

2 AASmithville

Wright, Allen Russell, 2 Arch
Wright, Harold Edward, 2 Agr
Wright, Jerome, 1 ME Paris Wright, Joseph Rudolf, 1 PPE Edna
Wright, Joseph Rudolf, 1 PPEEdna
Wright, James Travis, 4 AA
Wright, Robert Alexander, Jr., 4 Agr
Lampasas
Wright, Richard Harell, 3 AgrAlfred
Wupperman, Walter Ernest, 4 AgrAustin
Wurzbach, Ellis Otto, 3 Agr San Antonio
Wykes, Murray Lee, 1 EEQuanah
Wyse, John Thomas, 1 ArchHouston
Yarbrough, Henry Bowen, 3 EEAlvin
Yates, Cecil Earl, 1 CEBuffalo York, Oliver Shouble, Jr., 2 ChE
Galveston
Young, Baldwin, 4 ArchStephenville
Young, Charles Hamilton, 4 MEKyle
Young, Mark Harris, 2 CMSmithville Young, Ray Huber, 4 AgrLockhart
Young, Vernon Garham, 2 AARefugio

Young, Wesley Barbee, Jr., 2 AA
Grand Prairie
Young, William Conley, 1 AgrKyle
Young, William Lewis, 1 Sci San Antonio
Young, Walter Morris, 1 Agr
Sulphur Springs
ouiphur opings
Zachry, Guy Rowan, 4 PPEKerrville
Zapp, Lloyd Otto, 2 CEHouston
Zapp, Lioyu Otto, Z OE
Zeller, James Lynn, 2 ChE
Fort Riley, Kansas
Zellers, James Thomas, 1 EE
Zeners, sames inomas, i Em
Charleston, W. Va.
Zercher, Kemper Alspaugh, 1 ChE
Mount Vernon
Zieschang, Leroy Elmer, 2 AA
San Antonio
Zimmerman, Alfred Harvey, 1 CE Waco
Zimmerman, Bernard Gus, 4 ChE Shiner
Zimmerman, Kenneth Elbert, 2 Arch
Coleman
Zorns, Benton Ardyee, 2 AgrDecatur
Zumwalt, Robert William, 2 Arch
Shreveport, La.
Shreveport, La.
Zunker, Walter Louis, 1 Land San Marcos

SUMMARY OF ENROLLMENT, REGULAR SESSION 1931-32

(Excluding short courses and extension courses)

By States and Foreign Countries

Texas2156	б Oklahoma 1	3
Arizona	Pennsylvania	2
Arkansas	8 South Carolina	1
California	l Virginia	1
Colorado	l West Virginia	1
Illinois	5 Wyoming	1
Indiana	2 China	1
Iowa	l Cuba	2
Kansas 2	Ecuador	1
Kentucky	l India	1
Louisiana 39	9 Iraq	4
Massachusetts	l Japan	2
Mississippi8	B Korea	2
Missouri2	2 Mexico	22
New Jersey	l Palestine	1
New Mexico	4 Spain	1
New York	3 Turkey	1
Ohio 1	1 Total220)6
all Health Bar I	* *** *** *** *** *** *** *** *** ***	

SUMMER SESSION 1931

c-College cc-Cotton Classing
Abraham, Geo., ccCollege Station Abu Dabbeh, N. M., cJaffa, Palestine
Ahu Dabbeh, N. M., cJaffa, Palestine
Adams, E. V., c Bryan Adams, Hazel M., c Bryan
Adams, Hazel M., cBryan
Adams J. C. c. Roganville
Adams, S. L., c Jasper Adams, T. A., Jr., c Bryan Aday, E. R., c Waxahachie
Adams, T. A., Jr., cBryan
Aday, E. R., cWaxahachie
Addison, J. M., cWillis
Addison, J. M., c Willis Adwani, R. K., c. Karachi, India Akins, D. W., Jr., c Ft. Worth Akre, E. O., c Mexico City, Mex. Alber, J. L., c Houston
Akins, D. W., Jr., cFt. Worth
Akre, E. U., cMexico City, Mex.
Alber, J. L., C Houston
Allen Weethe a Proper
Allen W T a Creveter
Allen W R c Rryan
Allen, C. J., c Webster Allen, Martha, c Bryan Allen, W. J., c Groveton Allen, W. R., c Bryan Allison, U. S., c Bryan
Anderson, C. H. C., Jr., cDallas
A . 1
Anderson, L., c Bryan Anderson, Mrs. L., c Bryan Anderson, M. M., c Lawn Anderson, R. C., c Mt. Pleasant Andrews, Mary, c Bryan
Anderson, M. M., cLawn
Anderson, R. C., c
Andrews, Mary, cBryan
Arceneaux, T. J., cLafayette, La.
Armour, J. H., cDallas
Armour, B. W., cSan Saba
Arno, H. L., cSan Antonio
Arnold, R. W., c
Andrews, Mary, c Bryan Arceneaux, T. J., c Lafayette, La. Armour, J. H., c Dallas Armour, B. W., c San Saba Arno, H. L., c San Antonio Arnold, R. W., c San Antonio Abstin, S. T. c The Wooth
Austin, S. T., c Ft. Worth Austin, T. S., c Houston Avant, J. T., cc Abilene
Avent J T cc Ahilene
Ayers, G. M., c. Wheelock Babin, L. H., c. Naborton, La. Backloupe, J. J., c. Ennis Baggett, A. L., c. Ballinger
Babin, L. H., c Naborton, La.
Backloupe, J. J., c Ennis
Baggett, A. L., cBallinger
Bailey, E. L., cCollege Sta.
Baker, D. L., cMathis
Baker, E. W., cCollege Sta.
Balcar, V. J., ccDime Box
Ball, J. H., c
Balthis, R. F., Jr., CCollege Sta.
Barrield, R. A., Cwestnoil
Pargmann, Geo., c
Rarnett I R a Karnes City
Rarnhart H F c Gainesville
Barr. J. H., c Bryan
Barron, J. C., c
Bartholomew, Minnie V., cCameron
Bartlett, R. F., cRice
Barton, D. H., cSomerville
Bailey, E. L., c College Sta. Baker, D. L., c Mathis Baker, E. W., c College Sta. Balear, V. J., cc Dime Box Ball, J. H., c Yoakum Balthis, R. F., Jr., c College Sta. Barfield, R. A., c Westhoff Bargmann, Geo., c Gonzales Barnes, C. C., c Waxahachie Barnett, J. R., c Karnes City Barnhart, H. F., c Gainesville Barr, J. H., c Bryan Barron, J. C., c Center Bartholomew, Minnie V., c Cameron Bartlett, R. F., c Rice Barton, D. H., c Somerville Barton, M. U., c Tyler Bates, L. J., c Hazelhurst, Miss. Batjer, A. L., c Houston Houston
Bates, L. J., c
Batjer, A. L., c

c-College cc-Cotton Classing	Beeson, C. E., c St. Louis, Mo. Bell, O. O., c Fabens Bellamy, W. D., c Mission
Abraham, Geo., ccCollege Station Abu Dabbeh, N. M., cJaffa, Palestine	Benedict, G. F., cc Bay City Benson, M. S., c Bryan
Adams, E. V., cBryan	Beloate, C. F., c
Adams Hazel M. c Rryan	Benge, E. C., cWeimar
Adams, J. C., c Roganville Adams, S. L., c Jasper	Bentley, W. D., cBryan
Adams, S. L., c	Berry, R. O., c Brenham Besse, C. P., c Ennis
Aday, E. R., cWaxahachie	Bierschwale, A. J., cSterling City
Addicks, G. R., cLaGrange	Bird, J. Lucile, cDublin
Addison, J. M., cWillis	Bird, J. M., cDublin
Adwani, R. K., cKarachi, India Akins, D. W., Jr., cFt. Worth	Rlackwood H W c Rosenberg
Akre, E. O., cMexico City, Mex. Alber, J. L., c	Black, B. A., c Bryan Blackwood, H. W., c Rosenberg Blackwood, Mrs. H. W., c Rosenberg Blair, J. F., c Handley
Alber, J. L., c Houston	Blair, J. F., c
Allen, C. J., c	Blair, R. J., cArlington Blank, H. C., cFt. Worth
Allen, W. J., c	Blevins, W. L., c
Allen, W. R., cBryan	Block, M. J., cFt. Worth
Allison, U. S., cBryan	Blodgett, Gertrude, cBryan
Anderson, C. H. C., Jr., cDallas Anderson, L., cBryan	Blodgett, H. F., cOdessa Blodgett, W. S., cOdessa
Anderson, Mrs. L., c Bryan	Blumberg, A. A., cCollege Sta.
Anderson, M. M., cLawn	Bobbitt, E. H., c Hillsboro
Anderson, R. C., cMt. Pleasant	Boedeker, Chas., cc Chriesman
Andrews, Mary, cBryan Arceneaux, T. J., cLafayette, La.	Bohnenkamp, H. G., cMoulton Bolar, J. W., cFt. Worth
Armour, J. H., c	Bolton, F. C., Jr., cCollege Sta.
Armour, B. W., cSan Saba	Booth, Mrs. Robt., cHearne
Arno, H. L., cSan Antonio	Boswell, H. B., c
Arnold, R. W., c	Bouton I W c Webster
Austin, S. T., cFt. Worth	Boswell, H. B., c Harold Bounds, J. T., c Tehuacana Bouton, J. W., c Webster Bowles, W. W., c Bryan
Austin, T. S., cHouston	DOX, A. A., CLittleffeld
Avant, J. T., cc	Boyer, H. L., cCollege Sta.
Ayers, G. M., cWheelock Babin, L. H., cNaborton, La.	Boykin, G. L., c
Backloupe, J. J., cEnnis	Brackenridge, J. A., ccTaylor
Baggett, A. L., cBallinger	Braly, R. M., cBullard
Bailey, E. J., cCotulla Bailey, E. L., cCollege Sta.	Brashear, Ann, c
Baker, D. L., c Mathis	Brennan, L. L., cSommerville Brentzel, H. R., cHuntsville
Baker, E. W., cCollege Sta.	Brey, R., cBronte
Balcar, V. J., ccDime Box	Bridges, J. S., cBryan
Ball, J. H., c	Bridges, O. D., cSan Antonio Bright, M. L., cHouston
Barfield, R. A., c Westhoff	Brindley, R. M., cHarlingen
Bargmann, Geo., cGonzales	Brinsmade, H. S., cMexico City, Mex.
Bargmann, Geo., c	Brock, C. G., cEastland Brogdon, Clara E., cSour Lake
Barnhart, H. F., c	Brooks, Ruby L., cTyler
Barr, J. H., cBryan	Brown, C. L., cFt. Worth
Barron, J. C., cCenter Bartholomew, Minnie V., cCameron	Brown, E. E., cCollege Sta.
Bartlett, R. F., cRice	Brown, G. C., c
Barton, D. H., cSomerville	Brown, W. R., cDallas
Barton, M. U., cTyler Bates, L. J., cHazelhurst, Miss.	Brummett, B. B., cScranton
Bates, L. J., cHazelhurst, Miss. Batjer, A. L., cHouston	Brundrett, G. C., cDallas
Batson, F. H., cBryan	Bryan, C. S., c
Baucum, A. W., cGroveton	Buchanan, Mrs. J. S., e
Bayless, B. S., cHillsboro	Buchtien, E. W., cBellville Buckman, T. R., cFt. Worth
Bayless, C. H., c	Buckman, T. R., cFt. Worth
Beard, W. H., c	Buford, F. S., c
Beauchamp, G. D., cPort Arthur	Burting, W. D., c Bryan Burchers, L., c Yoakum
Beaver, H. E., c	Burk, L. C., c Colorado

Daniel C V a	Poteet
Durks, S. V., C	364
Burleson, R. E., c	Mart
Purns W D cc	College Sta.
Burns, W. D., Cc	D-II
Rurroughs, B. B., c	Dalias
Donates E I o	Kirhyville
Burton, r. J., C	Kir by vinc
Butler, L. R., C	Commerce
Davier, T. A.	Kilgare
Butts, J. A., C	Kilgore
Reed I C c	College Sta.
Dy14, 0. 0., 0	Magguita
Byrd, J. S., C	wresquite
Donal T. T. o	Mesquite
Dyru, L. L., C	C A- onio
Byrnes, G. H., c	San Antonio
Caddoos I H c	Winona Miss.
Caddess, J. 11., C	
Cabill, Evelyn R., c	Bryan
Calleren D. a	Pikin La
Carnoun, D., C	The state of the s
Camp. H. L., c	Bryan
Come Inspire	College Sta
Camp, Jennie, C	Conego Dia.
Canterbury, C. L., c	
C. I D I	Houston
Card, R. L., C	110451011
Carliele T G c	Black well
Carriste, 1. Ci, C	Donton
Carmichael, W. R., C	Dencon
Carroll J. S. c	
Carron, or Dr, c	Washington In
Carruth, T. J., C	wasning ton, La.
Carson Rostelle (Mrs.)	. c Hearne
Carson, Itosteric (1115)	77
Carter, A. A., C	Houston
Conturnicht I ce	San Augustine
Cartwingine, 1., cc	D
Castro, A., c	bryan
Caudle P C c	Mejouite
Caudie, It. G., C	Ti
Cavitt, Marjorie, c .	Bryan
Change Floorer a	Reven
Chance, Eleanor, c	
Chanowsky, Joe, c	Bryan
Chairties C T	Abilana
Christian, G. L., c	Aonene
Christian S. H., c	Ma!akof f
Clarity Division	Coldwall
Clampitt, Doris, c	Caluwen
Clark I G c	Dawson
Clark, J. C., C	Trans
Cline, Mary L., c	Bryan
Cluburn G I. c	Bollar i
- 01 P	D
Coats, Olga P., c	Povner
Coats, Olga P., c	Povnor Seminole
Coats, Olga P., c Cobb, D. G., c	Povner Seminole
Coats, Olga P., c Cobb, D. G., c Cole. C. E., cc	Povnor Seminole Jacksonville, N. C.
Coats, Olga P., c Cobb, D. G., c Cole, C. E., cc	Povnor Seminole Jacksonville, N. C.
Coats, Olga P., c Cobb, D. G., c Cole, C. E., cc Cole, Sunshine A., c	Povnor Seminole Jacksonville, N. C. Bryan
Coats, Olga P., c	Povnor Seminole Jacksonville, N. C. Bryan McKinney
Coats, Olga P., c	Povner Seminole Jacksonville, N. C. Bryan McKinney
Coats, Olga P., c	Povnor Seminole Jacksonville, N. C. Bryan McKinney San Antonio
Coats, Olga P., c	Povnor Seminole Jacksonville, N. C. Bryan McKinney San Antonio Pecos
Coats, Ólga P., c Cobb, D. G., c Cobb, D. G., c Cole, C. E., cc Cole, Sunshine A., c Coleman, G. W., c Colglazier, E. W., c Collie, M. W., c	Povnor Seminole Jacksonville, N. C. Bryan McKinney San Antonio Pecos Colvert
Coats, Ólga P., c Cobb, D. G., e Cole, C. E., cc Cole, Sunshine A., c Coleman, G. W., c Collie, M. W., c Collie, J. A., c	Povnor Seminole Jacksonville, N. C. Bryan McKinney San Antonio Pecos Calvert
Coats, Ólga P., c Cobb, D. G., c Cobb, D. G., c Cole, C. E., cc Cole, Sunshine A., c Coleman, G. W., c Colglazier, E. W., c Collie, M. W., c Collins, J. A., c Colson Mrs. N. H., 6	Povnor Seminole Jacksonville, N. C. Bryan McKinney San Antonio Pecos Calvert Bryan
Coats, Ólga P., c Cobb, D. G., c Cole, C. E., cc Cole, Sunshine A., c Coleman, G. W., c Colglazier, E. W., c Collie, M. W., c Collie, J. A., c Colson, Mrs. N. H., c	Povnor Seminole Jacksonville, N. C. Bryan McKinney San Antonio Pecos Calvert Bryan
Coats, Ólga P., c Cobb, D. G., c Cobe, C. E., cc Cole, Sunshine A., c Coleman, G. W., c Colgazier, E. W., c Collie, M. W., c Collins, J. A., c Colson, Mrs. N. H., c Colvin, Mrs. E. E., c	Povnor Seminole Jacksonville, N. C. Bryan McKinney San Antonio Pecos Calvert Bryan Bryan
Coats, Ólga P., c Cobb, D. G., c Cobe, C. E., cc Cole, Sunshine A., c Coleman, G. W., c Colglazier, E. W., c Collie, M. W., c Collins, J. A., c Colson, Mrs. N. H., c Colvin, Mrs. E. E., c Commons, G. G. c	Povnor Seminole Jacksonville, N. C. Bryan McKinney San Antonio Pecos Calvert Bryan Bryan Mercedes
Coats, Ólga P., c Cobb, D. G., e Cole, C. E., cc Cole, Sunshine A., c Coleman, G. W., c Collie, M. W., c Collie, M. W., c Collion, J. A., c Colson, Mrs. N. H., c Colvin, Mrs. E. E., c Commons, G. G., e	Povnor Seminole Jacksonville, N. C. Bryan McKinney San Antonio Pecos Calvert Bryan Bryan Mercedes
Coats, Ólga P., c Cobb, D. G., c Cole, C. E., cc Cole, Sunshine A., c Coleman, G. W., c Colglazier, E. W., c Collie, M. W., c Collins, J. A., c Colvin, Mrs. N. H., c Colvin, Mrs. E. E., c Commons, G. G., c Compton, W. Z., c	Povnor Seminole Jacksonville, N. C. Bryan McKinney San Antonio Pecos Calvert Bryan Bryan Bryan Mercedes De Leon
Coats, Ólga P., c Cobb, D. G., c Cobb, D. G., c Cole, C. E., cc Cole, Sunshine A., c Coleman, G. W., c Collie, M. W., c Collie, M. W., c Colson, Mrs. N. H., c Colvin, Mrs. E. E., c Common, G. G., c Compton, W. Z., c Coneway, C. R., c	Povnor Seminole Jacksonville, N. C. Bryan McKinney San Antonio Pecos Calvert Bryan Bryan Mercedes De Leon College Sta.
Coats, Ólga P., c Cobb, D. G., c Cobb, D. G., c Cole, C. E., cc Cole, Sunshine A., c Coleman, G. W., c Colglazier, E. W., c Collie, M. W., c Collins, J. A., c Colvin, Mrs. N. H., c Colvin, Mrs. E. E., c Commons, G. G., c Compton, W. Z., c Coneway, C. R., c	Povnor Seminole Jacksonville, N. C. Bryan McKinney San Antonio Pecos Calvert Bryan Bryan Bryan Mercedes De Leon College Sta.
Coats, Ólga P., c Cobb, D. G., c Cobe, C. E., cc Cole, Sunshine A., c Coleman, G. W., c Colglazier, E. W., c Collie, M. W., c Collins, J. A., c Colson, Mrs. N. H., c Colvin, Mrs. E. E., c Commons, G. G., c Compton, W. Z., c Coneway, C. R., c Conner, R. A., c	Povnor Seminole Jacksonville, N. C. Bryan McKinney San Antonio Pecos Calvert Bryan Bryan Mercedes De Leon College Sta. College Sta.
Coats, Ólga P., c Cobb, D. G., c Cobe, D. G., c Cole, C. E., cc Cole, Sunshine A., c Coleman, G. W., c Collie, M. W., c Collie, M. W., c Colson, Mrs. N. H., c Colvin, Mrs. E., c Commons, G. G., c Compton, W. Z., c Coneway, C. R., c Conner, R. A., c	Povnor Seminole Jacksonville, N. C. Bryan McKinney San Antonio Pecos Calvert Bryan Mercedes De Leon College Sta. College Sta. College Sta.
Coats, Ólga P., c Cobb, D. G., c Cobe, C. E., cc Cole, Sunshine A., c Coleman, G. W., c Colglazier, E. W., c Collie, M. W., c Collie, M. W., c Collins, J. A., c Colson, Mrs. N. H., c Colvin, Mrs. E. E., c Commons, G. G., c Compton, W. Z., c Coneway, C. R., c Coneway, C. R., c Cook, B. D., c	Povnor Seminole Jacksonville, N. C. Bryan McKinney San Antonio Pecos Calvert Bryan Bryan Mercedes De Leon College Sta. College Sta. Clairette
Coats, Ólga P., c Cobb, D. G., c Cobe, C. E., cc Cole, Sunshine A., c Colenam, G. W., c Collie, M. W., c Collie, M. W., c Colson, Mrs. N. H., c Colvin, Mrs. E. E., c Commons, G. G., c Compton, W. Z., c Conner, R. A., c Cook, B. D., c Cook, Mrs. B. D., c	Povnor Seminole Jacksonville, N. C. Bryan McKinney San Antonio Pecos Calvert Bryan Bryan Mercedes De Leon College Sta. College Sta. Clairette Clairette
Coats, Ólga P., c Cobb, D. G., c Cobe, C. E., cc Cole, Sunshine A., c Coleman, G. W., c Colglazier, E. W., c Collie, M. W., c Collins, J. A., c Colvin, Mrs. N. H., c Colvin, Mrs. E. E., c Commons, G. G., c Compton, W. Z., c Coneway, C. R., c Coneway, C. R., c Cook, B. D., c Cook, G. P. Jr. c	Povnor Seminole Jacksonville, N. C. Bryan McKinney San Antonio Pecos Calvert Bryan Bryan Mercedes De Leon College Sta. College Sta. Clairette Clairette Houston
Coats, Ólga P., c Cobb, D. G., c Cobe, C. E., cc Cole, Sunshine A., c Coleman, G. W., c Collie, M. W., c Collie, M. W., c Collie, M. S., c Colson, Mrs. N. H., c Colvin, Mrs. E. E., c Commons, G. G., c Compton, W. Z., c Coneway, C. R., c Coneway, C. R., c Cook, B. D., c Cook, Mrs. B. D., c Cook, G. P., Jr., c	Povnor Seminole Jacksonville, N. C. Bryan McKinney San Antonio Pecos Calvert Bryan Bryan Mercedes De Leon College Sta. Clairette Clairette Houston
Coats, Ólga P., c Cobb, D. G., c Cobe, D. G., c Cole, C. E., cc Cole, Sunshine A., c Coleman, G. W., c Collie, M. W., c Collie, M. W., c Colson, Mrs. N. H., c Colvin, Mrs. E., c Commons, G. G., c Compton, W. Z., c Coneway, C. R., c Conner, R. A., c Cook, B. D., c Cook, G. P., Jr., c Cook, G. P., Jr., c Cook, F. Fern, c	Povnor Seminole Jacksonville, N. C. Bryan McKinney San Antonio Pecos Calvert Bryan Mercedes De Leon College Sta. College Sta. Clairette Clairette Houston Bryan Bryan
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Cuellar, P. M., c Saltillo, Coah., Mex. C. C. Com. Gertrode L., c College Sta. Cullum, Estelle N., c Hearne Curry, Lee, c Brenham Cypert, R. P., c Whitney Dahl, W. C., c Del Rio Dameron, Z. C., c Del Rio Dameon, E. B., c Denton Davesport, Sarah, c Denton Davesport, Sarah, c Denton Davesport, Sarah, c Seminole Br. is, J. T., c Marfa Davis, D., C Seminole Br. is, J. T., c Marfa Davis, Leila, c Bryan Davis, Leila, c Bryan Davis, W. E., c Ft. Worth Davis, W. C., c Sterling City Day, A. E., c Center Dean, Jeff, c Lamesa Dean, M. S., c Denton De Graffenried, G., cc Waco Degener, H., cc Dallas Delleney, B. L., c Denton Del Valle, A. S., c. Bryan Denman, T. E., c Brownwood Derryberry, Inex, c College Station Detzel, J., c Vickery Diehl, H. H., c San Antonio Dillon, J. E., c Dallas Dillon, R. J., c Dallas Dillon, R. J., c Dallas Dillon, B. A., c Vaughan, Miss. Doane, Dorothy, c Bryan Dobbins, T. N., c Bay Springs, Miss. Doane, Dorothy, c Bryan Dollahite, J. W., c Grandview Dodd, I. F., c Forester, Ark. Doerge, C. H., c Bryan Dollahite, J. W., c Grandview Dollahite, J. W., c Johnson City Dollinger, J., III, c Beaumont Donalson, T. K., c Austin Doria, J. C., c Monterrey, Mex. Dorman, G. M., c College Sta. Dorney, R. R., c Forester, Ark. Dorman, G. M., c College Sta. Dorney, R. R., c Fort Worth Downard, R. E., c College Sta. Durser, M. C., c Kingsville Dresser, P. A., c College Sta. Durser, M. C., c Kingsville Dresser, P. A., c College Sta. Durser, M. C., c Kingsville Eaton, C. L., Jr., c Bryan Eden, Nelle, c Bryan Eden, Nelle, c Bryan Eden, C. L., Jr., c Bryan Eden, C. Stephenville Egan, J. T., c Stephenville Egan, J. T., c Stephenville Egan, J. T., c Stephenville	1

Emigh, W. E., c Elicemmons, A. B., c Emmons, J. R., c Ernard, F. W., c Erskine, J. C., c Erwin, M. E., c Erwin, Oscar, c Etheridge, M. L., c Evans, C. M., c Evans, Virginia A., c Evers, R. E., c Fair, R. V., c Bernard, Rebecca F., c Faulk, W. J., c Farrar, Rebecca F., c Feulk, W. R., c Fermier, Florence, c	zabeth, La. G
Emmons, A. B., c	Whitesboro CPlainview G
Emmons, J. R., c	Arlington C
Erhard, F. W., c	Poteet G
Ernst, Hugo., c	Seguin G
Erskine, J. C., C	Charlotte
Erwin Oscar. c	La Porte C
Etheridge, M. L., c	Moody G
Evans, C. M., c	Lamesa (
Evans, Virginia A., c	Itacra (
Evers, R. E., C	lvidere III. C
Fair, R. V., C	College Sta. C
Fannen, W. W., C.	Waxahachie C
Faulk W. J., C.	Minden, La.
Faust. W. R., c	Comfort
Fermier, Florence, c	College Sta.
Fermier, G. F., c	Lamesa Bryan Itasca Lividere, Ill. College Sta. Waxahachie Minden, La. Comfort College Sta. College Sta. College Sta. Houston Houston Houston Dallas San Marcos Waco
Fetzer, E. L., C	Houston C
Fields, L. B., C	Houston C
Fischer H L. C	Houston
Fisk. A. B., c	Houston
Fite, P. W., c	Dallas C
Fitzgerald, Z. H., c	an Marcos C
Flood, S. J., c	Furner; ville
Floyd, H. P., C	Abilene I
Floyd, W. C., C	Corsicana I
Fowler P. cc	Pflugerville I
Fox. J. E., c	Thorndale H
Franklin, Clyde, cc	Kennedy F
Franklin, J. D., Jr., c	uales Ariz. I
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Fridkin F. E., C	Tyler I
Friley, C. E., Jr., cColl	ege Station I
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Fuller, T. A., c	Falls City I
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Carbade, L. G., C	Flatonia l
Garcia, A. G., c	Hebbronville
Gardner, R. H., c	Tacksonville
Gary, T. L., c	Jacksonville I
Gary, Mrs. T. L., c	errey, Mex.
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Cates, Doris It., C	Houston I
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Gerloff, Mary E., c	Ponumont I
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Giffen, E. D., C	Bellevue
Gilland M A CC	Franklin
Gilliam D. T., C	Grandbury I
Fannen, W. W., Fannen, W. W., C. Faulk, W. J., C. Faulk, W. R., C. Fermier, Florence, C. Fermier, Florence, C. Fermier, E. F., C. Fetzer, E. L., C. Fields, L. B., C. Finkelstein, Leon, C. Fisker, H. L., C. Fisk, A. B., C. Fitzgerald, Z. H., C. Floyd, W. C., C. Floyd, W. C., C. Forsythe, L. P., C. Forsythe, L. P., C. Forsythe, L. P., C. Franklin, Clyde, C. Franklin, J. D., Jr., C. Franklin, J. D., Jr., C. Franklin, W. F., C. Freeman, Mrs. Eva L., C. Freeman, Mrs. Eva L., C. Frieley, C. E., Jr., C. Frilley, C. E., Jr., C. Frilley, C. E., Jr., C. Garbysch, C. J., C. Gambrell, A. L., C. Garder, R. H., C. Gary, Mrs. T. L., C. Garder, R. M., C. Garder, R. M., C. Garder, R. M., C. Garder, R. M., C. Gardes, J. J., C. Gentry, P. C., C. Gelliand, M. A., C. Gilliand, M. A., C. Gilliam, Kathleen C., C. Gilliam, K. A., C. Gilliam, M. M., C. Gilliam, M. M., C. Gilliam, M. M., C. Gilliam, K. A., C. Gilliam, K. A., C. Gilliam, M. A., CC	Granbury Waco
Gilmore, W. A., c	Waco
Gipson, W. F., cc	Charco
Gist, H. W., c	Bryan
Givens, Lucy A., c	Charco Bryan Bryan Bryan Locksonville
Glenn, E. W., C	Jacksonville
Godsey W. R., c	Jacksonville
Gold. Herman, cc	Richmond
Gilliam, D. T., c Gilliam, D. T., c Gilliam, Kathleen C., c Gilmore, W. A., c Gipson, W. F., cc Gist, H. W., c Givens, Lucy A., c Glenn, E. W., c Godsey, Lee, c Godsey, W. R., c Gold, Herman, cc Goodnight, R. H., c	Holland
Gorzycki, Lillian, c	College Sta. 1

Gosch, L. C., c Gotcher, W. L., c Gotther, W. L., c Gottwald, N. H., c Grady, J. T., c Graham, Marie, c Graham, S. S., c Grant, Margaret, c Graves, C. G., c Graves, Imogene, c Graves, J. L., c Graves, W. D., c Graves, W. D., c Graves, W. T., c Green, R. B., Jr. c Green, R. B., Jr. c Green, R. W., c Gregory, C. L., c Gregory, C. L., c Gregory, R. P., c Gragurek, August, cc Griffin, Dorothy, c Griffin, L. H., c Griffin, W. C., c Grissom, W. C., c Grissom, W. C., c Grissom, W. C., c Grissom, W. C., c Groves, J. T., c Gunn, S. A., c Guy, A. G., c Gwin, R. J., c Hable, it. R., c Hall, C. A., c Hall, U. A., c Hall, W. A., c Hall, W. A., c Hall, W. A., c Hamilton, S. A. B., c	Austin
Cote or W L c	Gouldneck
Gotter, W. D., C	Dlanganton
Gottwaid, N. H., C	r leasanton
Grady, J. T., c	Bryan
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Graham, S. S., Chillian	nuntsvine
Grant, Margaret, c	Bryan
Craves C C c	Stanhanvilla
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Green I C c	Paxton
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Green, R. B., Jr. C	Lone Oak
Green, R. W., c	Dallas
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Gregory, C. D., C	Tout Month
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Grazurek, August, cc	Ganado
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Griffin, Dolothy, C	TT - I
Griffin, L. H., c	Hooks
Griffin, W. C., c	Kilgore
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Grissom, W. C., cRe	paring Spgs.
Groves, J. T., c	Lenoard
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Guseman, O. J., c	Houston
Guy, A. G., c	Kirbvville
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Hell C A o	Houston
11an, C. A., C	Touston
Hall, J. D., c	Bedias
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Haney, Frank, c	Waller
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Hansen, C. J., c	Waller Avoca
Haney, Frank, c	Waller Avoca Temple
Haney, Frank, c Hansen, C. J., c Hansen, F. L., c Hardcastle, R. D., c	WallerAvocaTempleHouston
Haney, Frank, c Hansen, C. J., c Hansen, F. L., c Hardcastle, R. D., c Hardin, J. S., c	WallerAvocaTempleHoustonTerrell
Haney, Frank, c Hansen, C. J., c Hansen, F. L., c Hardcastle, R. D., c Hardin, J. S., c	Waller Avoca Temple Houston Terrell
Haney, Frank, c Hansen, C. J., c Hansen, F. L., c Hardcastle, R. D., c Hardin, J. S., c Hardy, J. L., c	Waller Avoca Temple Houston Terrell Karnes City
Haney, Frank, c Hansen, C. J., c Hansen, F. L., c Hardcastle, R. D., c Hardin, J. S., c Hardy, J. L., c Hare, J. M., c	Waller Avoca Temple Houston Terreil Karnes City Caldwell
Haney, Frank, c Hansen, C. J., c Hansen, F. L., c Hardcastle, R. D., c Hardin, J. S., c Hardy, J. L., c Harde, J. M., c Hargrave, L. M., c	Maller Avoca Temple Houston Terrell Karnes City Caldwell Plainview
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Haney, Frank, c Hansen, C. J., c Hansen, F. L., c Hardcastle, R. D., c Hardin, J. S., c Hardy, J. L., c Hare, J. M., c Harlin, J. F., c	Waller Avoca Temple Houston Terrell Karnes City Caldwell Plainview Temple Bryan Bedias Blackweit
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Haney, Frank, c Hansen, C. J., c Hansen, F. L., c Hardcastle, R. D., c Hardin, J. S., c Hardy, J. L., c Hare, J. M., c Hargave, L. M., c Harlin, J. F., c art, Edna, c Hart, Gordon L., c Hart, Mrs. G. L., c Hats, M. W., c	Waller Avoca Temple Houston Terrell Karnes City Caldwell Plainview Temple Bryan Bedias Blackweit Blackweit Mission
Haney, Frank, c Hansen, C. J., c Hansen, F. L., c Hardcastle, R. D., c Hardin, J. S., c Hardy, J. L., c Hardy, J. L., c Hargrave, L. M., c Harlin, J. F., c	Waller Avoca Temple Houston Terreil Karnes City Caldwell Plainview Temple Bryan Bedias Blackweil Mission City Okla
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Haney, Frank, c Hansen, C. J., c Hansen, F. L., c Hardcastle, R. D., c Hardin, J. S., c Hardy, J. L., c Hare, J. M., c Harlin, J. F., c Harlin, J. F., c Harlin, J. F., c Harlin, J. Edna, c Harlison, S. B., c Hart, Gordon L., c Hart, Mrs. G. L., c Hasth G. M., Jr., c Hatch G. M., Jr., c Hauger, R. L., c Hauger, R. L., c	Waller Avoca Temple Houston Terrell Karnes City Caldwell Plainview Temple Bryan Bedias Blackweil Blackweil Mission a City, Okla. College Sta.
Haney, Frank, c Hansen, C. J., c Hansen, F. L., c Hardcastle, R. D., c Hardin, J. S., c Hardy, J. L., c Hare, J. M., c Harlin, J. F., c ar. f. Edna, c Harrison, S. B., c Hart, Gordon L., c Hart, Gordon L., c Hart, Mrs. G. L., c Has. H. W., c Hatch G. M., Jr., c Oklahom Hatfield, Sadie, c Hauger, R. L., c	Waller Avoca Temple Houston Terrell Karnes City Caldwell Plainview Temple Bryan Bedias Blackwell Mission a City, Okla. College Sta. San Antonio
Haney, Frank, c Hansen, C. J., c Hansen, F. L., c Hardcastle, R. D., c Hardin, J. S., c Hardy, J. L., c Hare, J. M., c Harlin, J. F., c Harlin, J. F., c Harlin, J. F., c Harlin, S. B., c Hart, Gordon L., c Hart, Gordon L., c Hath, Gordon L., c Haye, G. M., Jr., c Hayes, G. T., c	Waller Avoca Temple Houston Terrell Karnes City Caldwell Plainview Temple Bryan Bedias Blackweil Blackweil Mission a City, Okla. College Sta. San Antonio Groesbeck
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Haney, Frank, c Hansen, C. J., c Hansen, F. L., c Hardcastle, R. D., c Hardin, J. S., c Hardy, J. L., c Hare, J. M., c Harlin, J. F., c Harlin, J. F., c Harlin, J. F., c Harlin, Gordon L., c Hart, Gordon L., c Hart, Mrs. G. L., c Hath G. M., Jr., c Hath G. M., Jr., c Hages, G. T., c Hayes, G. T., c Hayes, M. E., c Hedges, H. P., c Heddrich, E. R., c	Waller Avoca Temple Houston Terrell Karnes City Caldwell Plainview Temple Bryan Bedias Blackwell Mission a City, Okla. College Sta. San Antonio Groesbeck Bryan Bryan
Haney, Frank, c Hansen, C. J., c Hansen, F. L., c Hardcastle, R. D., c Hardn, J. S., c Hardy, J. L., c Hardy, J. M., c Hargrave, L. M., c Harlin, J. F., c ar.1; Edna, c Harrison, S. B., c Hart, Gordon L., c Hart, Gordon L., c Hart, Gordon L., c Hath, G. M., Jr., c Dias. H. W., c Hath G. M., Jr., c Hathel, Sadie, c Hauger, R. L., c Hayes, G. T., c Hayes, M. E., c Hearne, Evie G., c Heiders, F. W., Jr., c Heiderfels, F. W., Jr., c	Waller Avoca Temple Houston Terreil Karnes City Caldwell Plainview Temple Bryan Bedias Blackweil Mission a City, Okla. College Sta. San Antonio Groesbeck Bryan Bryan College Sta. Houston Beeville
Haney, Frank, c Hansen, C. J., c Hansen, F. L., c Hardcastle, R. D., c Hardin, J. S., c Hardy, J. L., c Hare, J. M., c Harlin, J. F., c Harlin, J. F., c Harlin, J. F., c Harlin, J. Edna, c Harrison, S. B., c Hart, Gordon L., c Hart, Mrs. G. L., c Hath G. M., Jr., c Hath G. M., Jr., c Hayes, G. T., c Hayes, M. E., c Hedges, H. P., c Heidenfels, F. W., Jr., c Heldenfels, F. W., Jr., c	Waller Avoca Temple Houston Terrell Karnes City Caldwell Plainview Temple Bryan Bedias Blackweit Blackweit Mission a City, Okla. College Sta. San Antonio Groesbeck Bryan Bryan College Sta. Houston Beeville
Haney, Frank, c Hansen, C. J., c Hansen, F. L., c Hardcastle, R. D., c Hardy, J. L., c Hardy, Gordon L., c Hart, Gordon L., c Ha	Waller Avoca Temple Houston Terreil Karnes City Caldwell Plainview Temple Bryan Bedias Blackwell Mission a City, Okla College Sta San Antonio Groesbeck Bryan Bryan College Sta Houston Beeville
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Koenig, Oline, cBryan
Koenig, W. C., ccEl Campo
Kolar, J. J., cc Flatonia
Koschiol I. A ca Folfunnias
Kossbiel, L. A., ceFaiturrias
Krenek, S. J., cCaldwell
Krezdorn, R. R., cSeguin
Kreuger A. T. c. San Antonio
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Krumbholz, E. F., CEast Foint, La.
Land, L. M., cValley Milis
Langeton G G c San Antonio
Langston, O. M. c. Garrison
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Miller, O., c	Burkeville
Miller, R. G., c	Greenville
Mims, Mrs. Bertha,	cHouston
Mims, J. B., c	Cleburne
Mims, J. R., c	Houston
Mims. P. J., c	Ft. Worth
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Moncrief, H. A., Jr	., cKosse
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Oliver, E. T., cc .	Caldwell Snook Midland Bellevue Kerens Pilot Point Bonham Bellville Westbrook Corsicana Ft. Worth Tyler Houston Ellisville, Miss Waco Natchez, Miss. Beaumont Morgan Mill
Orsak, A., c	Snook
Orsak, A., c Orson, O. W., c	Midland
Orson, O. W., c	Dallama
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Overton, II. D., co	Pilot Point
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Permell V C c	Ft. Worth
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Pampell, V. C., c Parish, H. F., c	
Parker, J. U., c	Houston
Parker, L. L., cc	Ellisville, Miss
Talker, D. L., Co	Waga
Parr, M. Lou, c	vv aco
Parsons, F. H., c	Natchez, Miss.
Potrick T E c	Beaumont
Tatrick, I. D., C	Morgan Mill
Patteson, J. B., C	
Payne, Mrs. A. J	., cBloomington
Payne J R c	Bryan
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Payne, W. L., C.	Diooming to:
Pearson, E. S., c	Cortaro, Ariz.
Pearson, J. S., c	Abilene
Description, J. D.,	Colorado
Pearson, Laura, c	C. A. tania
Pennington, H., c	San Antonio
Pennycuick, J. M.	cCrystal City
Dames W D	Jonah
Percy, W. D., C	C Aia
Perry, R. H., c	San Antonio
Peters, A. F., cc	Taylor
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Persons, R. J., c	Bryan
Pharo, W. L., c	Trinidad
Pholos W H c	Little Rock Ark.
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Pinson, R., c	Ellisville, Miss Waco Natchez, Miss. Beaumont Morgan Mill L, c Bloomington Cortaro, Ariz. Abilene Colorado San Antonio Taylor C McAllen Bryan Trinidad Little Rock, Ark. Denton Bowie C Beaumont Corpus Christi Baumont San Antonio Topy C Beaumont Corpus Christi Baumont San Antonio Topy Port Arthur Dickinson Denton Dockinson
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Roberts, Agnes, C	
Roberts, G. E., c	Sweetwater
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Rogers, A. M., e	Brenham
Rogers P W c	San Antonio
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Rogers, R. H., C	Del Rio
Rogers, W. B., c	Kerrville
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Sanders, Dora E., c	Tyler
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Sanders, Fannie Mae, c	Conege Sta.
Sanders, W. O., c	Bryan
Sandison D C c	San Antonio
Callet II T	C II COM
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Sapp. W. L., cOklaho	ma City, Okla.
Sartain P P a	Croonwille
Sarvain, It. 10., C	Greenville
Sasse, B. E., c	San Antonio
Sasser, J. J., c	Sour Lake
Cabacter F T	C-blb
Benaeler, E. I., C	Schulenburg
Schlather, M. F., c	Cibolo
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Schroeter, H. W., C	Beumont
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Second H M a	Dwg
Secord, H. M., C	Bryan
Seeligson, H. G., c	Dallas
Sellers J R c	Meria
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Seward, J. H., c	Houston
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Shen, K. T., cWas Shepherd, E. T., c Shoemaker, C. Y., c	hington, D. C. Port Arthur Jacksonville
Shen, K. T., cWas Shepherd, E. T., c Shoemaker, C. Y., c Shoemaker, J. W., c	hington, D. C. Port Arthur Jacksonville Jefferson
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Reese, G. G., c Reeves, W. B., c Reid, A. F., c Reid, I. A., c Reid, R. N., c Resley, G., Jr., c Resley, G., Jr., c Reynolds, E. L., c Reynolds, J. A., c Reynolds, J. M., c Roberts, G. C., c Robins, E. T., c Robertson, J. W., c Robertson, J. W., c Robertson, J. E., c Robertson, J. E., c Robinson, W. L., c Robinson, W. L., c Roderick, R., c Roders, P. A., c Rogers, R. H., c Rogers, W. B., c Rose, L. D., cc Rose, M. G., cc Rosenbush, J. E., c Rosenbush, J. E., c Routh, C. A., cc Rowley, R. W., c Royle, W. C., c Rudder, J. E., c Rudder, J. E., c Randers, Dora E., c Samuel, L. I., c Sanders, Dora E., c Sanders, Fannie Mae, c Sanders, P. A., c Sanders, R., c Sasser, J. J., c Schoeffeld, C. G., c Schoefter, E. T., c Schaefer, E. T., c Schaefer, E. T., c Scheefer, H. W., c Scoordes, W. D., c Seergeant, H. P., c Shebender, J. E., c Shebender, J. W., c Sheblen, J. D., c Shebender, J. W., c Shebender, J. W., c Shoemaker, J. W., c Shoemaker, J. W., c Shoemaker, J. W., c Sibson, W. W., c Sibson, V. W., c Sibson, V. W., c Sibson, V. W., c Sibson, Caroline, c	hington, D. C. Port Arthur Jacksonville Jefferson Grapeland Hallsville Santa Rosa College Sta. College Sta.

Simms, C. J., c	
	Port Arthur
Simpson, K. M., C	San Antonio
Skinner A A a	San Margos
Skinner, A. A., c Slagle, E. Marie, c Sloop, Cornelia, c Sloop, Elizabeth, c Slovak, C. J., c Smith, Bill c Smith, C. B., c Smith, H. L., c Smith, J. D., c Smith, M., c	San Marcos
Slagle, E. Marie, c	Hearne
Sloop, Cornelia, c	Brvan
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Smith, Bill c	Ft. Worth
Smith C B c	Denton
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Smith, H. L., e	Dawson
Smith, J. D., c	Midlothian
Smith, M., c Sul	lphur Springs
Smith Marry F a	College Sta
Smith, Marry 15., C	Oonege bta.
Smith, N. R., c	Bryan
Smith. Ruth. c	Bryan
Smith W H Jr c	Henderson
County W. II., or., C	Manager
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Smyth, L. L., c	Navasota
Snyder, S. D., c	College Sta.
Snody P D co	Ranjamin
S:10dy, 14. D., CC	Dl
Sorenson, P. C., C	Reckport
Sory, E. M., c	Bryan
Souther, Lois, c	Marlin
Cowell I I c	Gilmor
Sowell, J. L., C	C. J. Intel
Speckles, M. L., C	Combiand
Spellmann, R. R., c	Sniley
Spence Elizabeth c	Tyler
C II C -:	Callege Ste
Spencer, n. C., c	Conege Sta.
Spencer, H. L., cBl	coming Grove
Spivey, J. R., c	Bonham
Stanchos A. A. E. c	Yorktown
Standley B H a	Houston
Standley, D. 11., C	Duston
Stanford, Alia, c	Bryan
Stanford, Evelyn, c	Bryan
Stapp, E. L., c	Dallas
Stanles G A c	Edna
Ctame T E	Userna
Starr, L. F., C	nearne
Starr, L. J., c	Hearne
Stasny, J. D., cc	Taylor
Steele, E. J., c	Denison
Stenzel I. G. c.	Houston
Ct Y C	Condon
Stephens, L. C., C	Gordan
Stepp, W. W., cc	Cameron
Stewart, Alma, c	Eddy
Stewart, Grady, c	Eddv
Stewart, J. A., c.	Sweetwater
Stowart Tine a	Fddy
Stewart, Tilla, C	Calanta
Stiles, M. F., Jr., C	Garveston
Stinson, M. A., c	Itasca
G: 14 D A -	
Stockton, B. A., C	Stephenville
Strickland A C. c	Stephenville Cameron
Strickland, A. C., c	Stephenville Cameron
Strickland, A. C., c	Stephenville Cameron rdmore, Okla.
Strickland, A. C., c	Stephenville Cameron rdmore, Okla. Ft. Worth
Stockton, B. A., c Strickland, A. C., c Stroman, E. M., c Stroud, C. C., c Stuart, O. G., c	Stephenville Cameron rdmore, Okla. Ft. Worth College Sta.
Strickland, A. C., c Stroman, E. M., c Stroud, C. C., c Studebaker, N. E. c	Stephenville Cameron rdmore, Okla. Ft. Worth College Sta. Houston
Stockton, B. A., c Strickland, A. C., c Stroman, E. M., c Stroud, C. C., c Stuart, O. G., c Studebaker, N. E., c	Stephenville Cameron rdmore, Okla. Ft. Worth College Sta. Houston
Stockton, B. A., c Strickland, A. C., c Stroman, E. M., c Stroud, C. C., c Stuart, O. G. c Studebaker, N. E., c Stuteville, M. V., c	StephenvilleCameron rdmore, OklaFt. WorthCollege StaHoustonCisco
Stockton, B. A., c Strickland, A. C., c Stroman, E. M., c Stroud, C. C., c Stuart, O. G., c Studebaker, N. E., c Stuteville, M. V., c Summers, E. J., Jr., c	StephenvilleCameron rdmore, OklaFt. WorthCollege StaHoustonCiscoPalestine
Stockton, B. A., c Strickland, A. C., c Stroman, E. M., c Stroud, C. C., c Stuart, O. G., c Studebaker, N. E., c Stuteville, M. V., c Summers, E. J., Jr., c Sumner, V. D., c	StephenvilleCameron rdmore, Okla Ft. WorthCollege Sta HoustonCiscoPalestineHillsboro
Stockton, B. A., c Strickland, A. C., c Stroud, C. C., c Stroud, C. C., c Stuart, O. G., c Studebaker, N. E., c Stuteville, M. V., c Summers, E. J., Jr., c Sumner, V. D., c Swift, Helen, c	
Stockton, B. A., c Strickland, A. C., c Stroman, E. M., c Stroud, C. C., c Stuart, O. G., c Studebaker, N. E., c Studebaker, N. E., c Stuteville, M. V., c Summers, E. J., Jr., c Sumner, V. D., c Swift, Helen, c	Stephenville Cameron rdmore, Okla. Ft. Worth College Sta. Houston Cisco Palestine Hillsboro Bryan Denton
Stockton, B. A., c Strickland, A. C., c Stroud, C. C., c Stroud, C. C., c Stuart, O. G., c Studebaker, N. E., c Studebaker, N. E., c Studeville, M. V., c Summer, E. J., Jr., c Summer, V. D., c Swift, Helen, c Taliaferro, L. E., c	Stephenville Cameron rdmore, Okla. Ft. Worth College Sta. Houston Cisco Palestine Hillsboro Bryan Denton
Stockton, B. A., c Strickland, A. C., c Stroman, E. M., c Stroud, C. C., c Stuart, O. G., c Studebaker, N. E., c Studebaker, N. E., c Stuteville, M. V., c Summers, E. J., Jr., c Sumner, V. D., c Swift, Helen, c Taliaferro, L. E., c Tardy, P. A., c	Stephenville Cameron rdmore, Okla. Ft. Worth College Sta. Houston Cisco Palestine Hillsboro Bryan Denton Bryan
Stockton, B. A., c Strickland, A. C., c Stroud, C. C., c Stuart, O. G., c Studebaker, N. E., c Stuteville, M. V., c Summer, E. J., Jr., c Summer, V. D., c Swift, Helen, c Taliaferro, L. E., c Tardy, P. A., c Taylor, D. F., c	Stephenville Cameron rdmore, Okla. Ft. Worth College Sta. Houston Cisco Palestine Hillsboro Bryan Denton Bryan Mt. Pleasant
Stockton, B. A., c Strickland, A. C., c Stroman, E. M., c Stroud, C. C., c Stuart, O. G., c Studebaker, N. E., c Studebaker, N. E., c Studebaker, N. E., c Summers, E. J., Jr., c Summer, V. D., c Swift, Helen, c Taliaferro, L. E., c Tardy, P. A., c Taylor, D. F., c	Stephenville Cameron rdmore, Okla. Ft. Worth College Sta. Houston Cisco Palestine Hillsboro Bryan Denton Bryan Mt. Pleasant Center
Stockton, A. A., c Strickland, A. C., c Strickland, A. C., c Stroud, C. C., c Stuart, O. G., c Studebaker, N. E., c Stuteville, M. V., c Summers, E. J., Jr., c Summer, V. D., c Swift, Helen, c Taliaferro, L. E., c Tardy, P. A., c Taylor, D. F., c Taylor, F., c	Stephenville Cameron rdmore, Okla. Ft. Worth College Sta. Houston Cisco Palestine Hillsboro Bryan Denton Bryan Mt. Pleasant Center Bryan
Stockton, B. A., c Strickland, A. C., c Stroman, E. M., c Stroud, C. C., c Stuart, O. G., c Studebaker, N. E., c Stuteville, M. V., c Summers, E. J., Jr., c Summer, V. D., c Swift, Helen, c Taliaferro, L. E., c Taylor, D. F., c Taylor, F., c Taylor, I. A., c	Stephenville Cameron rdmore, Okla. Ft. Worth College Sta. Houston Cisco Palestine Hillsboro Bryan Denton Bryan Denton Bryan Center Bryan Center Center
Stockton, A. A., c Strickland, A. C., c Strickland, A. C., c Stroud, C. C., c Stroud, C. C., c Stuart, O. G., c Studebaker, N. E., c Stuteville, M. V., c Summers, E. J., Jr., c Summer, V. D., c Swift, Helen, c Taliaferro, L. E., c Tardy, P. A., c Taylor, D. F., c Taylor, F., c Taylor, I. A., c Taylor, L., c	Stephenville Cameron rdmore, Okla. Ft. Worth College Sta. Houston Cisco Palestine Hillsboro Bryan Denton Bryan Center Bryan Center Bryan Center
Stockton, A. A., c Strickland, A. C., c Stroman, E. M., c Stroud, C. C., c Stuart, O. G., c Studebaker, N. E., c Stuteville, M. V., c Summers, E. J., Jr., c Summer, V. D., c Swift, Helen, c Taliaferro, L. E., c Tardy, P. A., c Taylor, D. F., c Taylor, F., c Taylor, I. A., c Taylor, L., c Taylor, L., c Taylor, L., c	Stephenville Cameron rdmore, Okla. Ft. Worth College Sta. Houston Cisco Palestine Hillsboro Bryan Denton Bryan Center Bryan Center Hawley
Stockton, B. A., c Strickland, A. C., c Strickland, A. C., c Stroud, C. C., c Stroud, C. C., c Stuart, O. G., c Studebaker, N. E., c Studebaker, N. E., c Stuteville, M. V., c Summers, E. J., Jr., c Summer, V. D., c Swift, Helen, c Taliaferro, L. E., c Tardy, P. A., c Taylor, D. F., c Taylor, F., c Taylor, I. A., c Taylor, L., c Taylor, L. E., c Taylor, Mrs. Mary H., c Si	Stephenville Cameron rdmore, Okla. Ft. Worth College Sta. Houston Cisco Palestine Hillsboro Bryan Denton Bryan Center Bryan Center Hawley nawnee, Okla.
Stockton, B. A., c Strickland, A. C., c Stroman, E. M., c Stroud, C. C., c Stuart, O. G., c Stuart, O. G., c Studebaker, N. E., c Studebaker, N. E., c Studeville, M. V., c Summers, E. J., Jr., c Summer, V. D., c Swift, Helen, c Taliaferro, L. E., c Tardy, P. A., c Taylor, D. F., c Taylor, F., c Taylor, I. A., c Taylor, L. E., c Taylor, L. E., c Taylor, M. K., c	Stephenville Cameron rdmore, Okla. Ft. Worth College Sta. Houston Cisco Palestine Hillsboro Bryan Denton Bryan Center Bryan Center Hawley The Stanton Center Hawley Mt. Pleasant Center Hawley Mt. Pleasant
Stockton, B. A., c Strickland, A. C., c Strickland, A. C., c Stroud, C. C., c Stroud, C. C., c Stuart, O. G., c Studebaker, N. E., c Studebile, M. V., c Summers, E. J., Jr., c Summer, V. D., c Swift, Helen, c Taliaferro, L. E., c Tardy, P. A., c Taylor, D. F., c Taylor, F., c Taylor, I. A., c Taylor, L., c Taylor, L. E., c Taylor, Mrs. Mary H., c Taylor, Mrs. Mary H., c Taylor, M. K., c	Stephenville Cameron rdmore, Okla. Ft. Worth College Sta. Houston Cisco Palestine Hillsboro Bryan Denton Bryan Center Bryan Center Hawley nawnee, Okla. Mt. Pleasant Crosbyton
Stockton, B. A., c Strickland, A. C., c Stroud, C. C., c Stroud, C. C., c Stuart, O. G., c Studebaker, N. E., c Studebaker, N. E., c Studebaker, N. E., c Summers, E. J., Jr., c Summer, V. D., c Swift, Helen, c Taliaferro, L. E., c Tardy, P. A., c Taylor, D. F., c Taylor, F., c Taylor, I. A., c Taylor, L., c Taylor, L., c Taylor, L., c Taylor, Mary H., c SI Taylor, M. K., c Taylor, W. C., c	Stephenville Cameron rdmore, Okla. Ft. Worth College Sta. Houston Cisco Palestine Hillsboro Bryan Denton Bryan Center Bryan Center Hawley hawnee, Okla. Mt. Pleasant Crosbyton Mena Ark
Stockton, B. A., c Strickland, A. C., c Strickland, A. C., c Stroud, C. C., c Stroud, C. C., c Stuart, O. G., c Studebaker, N. E., c Studebile, M. V., c Summers, E. J., Jr., c Summer, V. D., c Swift, Helen, c Taliaferro, L. E., c Tardy, P. A., c Taylor, D. F., c Taylor, F., c Taylor, I. A., c Taylor, L., c Taylor, L. E., c Taylor, L. E., c Taylor, Mrs. Mary H., c Taylor, Mrs. Mary H., c Taylor, W. C., c Teague, O. E., c	Stephenville Cameron rdmore, Okla. Ft. Worth College Sta. Houston Cisco Palestine Hillsboro Bryan Denton Bryan Center Bryan Center Hawley nawnee, Okla. Mt. Pleasant Crosbyton Mena, Ark.
Stockton, B. A., c Strickland, A. C., c Stroud, C. C., c Stroud, C. C., c Stuart, O. G., c Studebaker, N. E., c Studebaker, N. E., c Studeville, M. V., c Summer, V. D., c Swift, Helen, c Taliaferro, L. E., c Tardy, P. A., c Taylor, D. F., c Taylor, I. A., c Taylor, I. A., c Taylor, L. E., c Taylor, L. E., c Taylor, L. E., c Taylor, L. S. C Taylor, I. S. C Taylor, Mrs. Mary H., c Taylor, Mrs. Mary H., c Taylor, W. C., c Teague, O. E., c Terrell, C. A., c	Stephenville Cameron rdmore, Okla. Ft. Worth College Sta. Houston Cisco Palestine Hillsboro Bryan Denton Bryan Center Hawley awnee, Okla. Mt. Pleasant Crosbyton Mena, Ark. Bryan
Smith, J. D., c Smith, M., c Smith, M., c Smith, N., R., c Smith, N. R., c Smith, Ruth, c Smith, W. H., Jr., c Smith, W. H., Jr., c Smyth, Eloise, c Smyth, Eloise, c Smyth, L. L., c Smyth, Eloise, c Smyth, E. L., c Sowler, S. D., c Snody, R. D., cc Sorenson, P. C., c Speckles, M. L., c Speckles, M. L., c Speckles, M. L., c Spencer, H. C., c Spencer, H. C., c Spencer, H. C., c Spencer, H. C., c Standley, B. H., c Standley, B. H., c Stanford, Alia, c Stanford, Alia, c Stanford, Evelyn, c Stapp, E. L., c Stapp, E. L., c Starr, L. J., c Starr, L. J., c Sternel, L. G., c Stephens, L. C., c Stephens, L. C., c Stephens, L. C., c Stephens, L. C., c Stewart, Grady, c Stewart, Grady, c Stewart, Tina, c Stiles, M. F., Jr., c Stinson, M. A., c Stockton, B. A., c Strickland, A. C., c Stroman, E. M., c Stouteville, M. V., c Summers, E. J., Jr., c Stuarto, O. G., c Studebaker, N. E., c Taylor, L. E., c Taylor, Mrs. Mary H., c Slaylor, M. K., c Teague, O. E., c Terrell, C. A., c Thomas, E., c	Stephenville Cameron rdmore, Okla. Ft. Worth College Sta. Houston Cisco Palestine Hillsboro Bryan Denton Bryan Center Bryan Center Hawley hawnee, Okla. Mt. Pleasant Crosbyton Mena, Ark. Bryan Gainesville

Thomas, Frances, c	Reman
Thomas, F. G., c	Bryan Wichita Falls
Thomas, F. G., c Thompson, Ethel, c Thompson, H. L., c Thompson, O. C., c Thompson, R. R., c Timmons, W. H., c Tindell, C., c Tisdale, W. R., c Tomlinson, R. R., c Tottenham, W. M., c Tubb, E. M., c Tucker, R. E., c Tunnell, B. F., c Turner, L. B., c Tutt, F. E., c	wichita Falis
I nompson, Etnel, c	Bryan
Thompson, H. L., c	Sweetwater
Thompson, O. C., c	Hubbard
Thompson, R. R., c	Hubbard
Timmone W H a	Allan
Tindell C	Aileii
Tinden, C., e	Rosebud
11sdale, W. R., c	Coleman
Tomlinson, R. R., c	Ft. Worth
Tottenham, W. M., c	Hempstead
Tubb E M c S	mithville Miss
Tucker R F c	Dittahama
Tunnall D D	Fictsourg
Tunnell, B. F., C	Matador
Turner, L. B., c	Houston
Tutt, F. E., c	Abilene
Uhr. R., J., c	San Antonio
Uhr. T. L. c	San Antonio
Illlrigh F C	Tralladding
Tindaminal 37 A	nanettsville
Underwood, V. A., C	Knox City
Upchurch, J. W., c	Mart
Valek, G. C., c	Ennis
Vance, Dolores, c	Rryan
Van de Putte Chas a	Provinceille
Van Feten B A	Drownsvine
Van Zandi, K. A., C	Houston
van Zandt, K. M., c	DeLeon
Van Zandt, R. L., c	Ft. Worth
Vick, G. M., c	Houston
Vick, Mozelle, c	Rryon
Vick R M c	Dwwn
Vielena I II -	Bryan
Vickers, J. H., e	Houston
Villarreal, L. H., cVi	llaldama, Mex.
Vines. W. C., c	Comanche
Wadley, Blanche, c	Palmer
Wadley, F. H., c	Ennig
Waggoner F A c	Polton
Wolken Mrs Mills D	berwn
Walker, Mrs. Mills F., C	Bryan
Walker, Shirlireed, c	Bryan
Walker, Shirlireed, c Wallace, W. W., c	Bryan Bryan
Wallace, W. W., c	Bryan Bryan Houston
Wallace, W. W., c	Bryan Bryan Houston College Sta
Walker, Shirlireed, c	Bryan Bryan Houston College Sta,
Wallace, W. W., c Walls, E. M., c Walton, Lilliemae, c Wanja, L. F., c	Bryan Bryan Houston College Sta, Weimar
Walker, Shirlireed, c Wallace, W. W., c Walls, E. M., c Walton, Lilliemae, c Wanja, L. F., c Want, V. D., c	Bryan Bryan Houston College Sta, Weimar San Antonio
Wallace W. W., c Wallace W. W., c Walls, E. M., c Walton, Lilliemae, c Wanja, L. F., c Want, V. D., c Ward, J. C., c	Bryan Bryan Houston College Sta, Weimar San Antonio Weatherford
Wallace, W. W., c. Wallos, E. M., c. Wallon, Lilliemae, c. Wanja, L. F., c. Want, V. D., c. Ward, J. C., c. Ward, W. L., c.	Bryan Bryan Houston College Sta. Weimar San Antonio Weatherford Alvin
Wallace W. W., c Wallace W. W., c Walls, E. M., c Walton, Lilliemae, c Wanja, L. F., c Want, V. D., c Ward, J. C., c Ward, W. L., c	Bryan Bryan Houston College Sta, Weimar San Antonio Weatherford Alvin San Antonio
Wallace W. W., c. Wallace W. W., c. Wallon, Lilliemae, c. Wanja, L. F., c. Want, V. D., c. Ward, J. C., c. Ward, W. L., c. Warren, C. C., c. Warren, K. J., c.	Bryan Bryan Houston College Sta, Weimar San Antonio Weatherford Alvin San Antonio
Wallace, W. W., c. Wallace, W. W., c. Walls, E. M., c. Watton, Lilliemae, c. Wanta, L. F., c. Want, V. D., c. Ward, J. C., c. Ward, W. L., c. Warren, C. C., c. Warren, K. J., c.	Bryan Bryan Houston College Sta, Weimar San Antonio Weatherford Alvin San Antonio Evant
Wallace, W. W., c. Wallace, W. W., c. Wallon, Lilliemae, c. Wanja, L. F., c. Want, V. D., c. Ward, J. C., c. Ward, W. L., c. Warren, C. C., c. Warren, K. J., c. Watson, Lida, c.	Bryan Bryan Houston College Sta, Weimar San Antonio Weatherford Alvin San Antonio Evant Bryan
Wallace, W. W., c Wallace, W. W., c Walls, E. M., c Walton, Lilliemae, c Wanja, L. F., c Want, V. D., c Ward, J. C., c Ward, J. C., c Warren, C. C., c Warren, K. J., c Watson, Lida, c Weaver, Leila, c	Bryan Bryan Houston College Sta, Weimar San Antonio Weatherford Alvin San Antonio Evant Bryan Teague
Wallace W. W., c. Wallace W. W., c. Walls, E. M., c. Walton, Lilliemae, c. Wanja, L. F., c. Want, V. D., c. Ward, J. C., c. Ward, W. L., c. Warren, C. C., c. Warren, K. J., c. Watson, Lida, c. Weaver, Leila, c. Weaver, T. M., c.	Bryan Bryan Houston College Sta, Weimar San Antonio Weatherford Alvin San Antonio Evant Bryan Teague Dallas
Wallace, W. W., c Wallace, W. W., c Walls, E. M., c Walton, Lilliemae, c Wanja, L. F., c Want, V. D., c Ward, J. C., c Ward, W. L., c Warren, C. C., c Warren, K. J., c Watson, Lida, c Weaver, Leila, c Weaver, T. M., c Weaver, T. V., c	Bryan Bryan Houston College Sta. Weimar San Antonio Weatherford Alvin San Antonio Evant Bryan Teague Dallas Dimmitt
Tutt, F. E., c Uhr, R., J., c Uhr, T. L., c Uhr, T. L., c Ulrich, E. C., c Underwood, V. A., c Underwood, V. A., c Valek, G. C., c Vance, Dolores, c Van de Putte, Chas., c Van Zandt, R. M., c Van Zandt, R. L., c Vick, G. M., c Vick, G. M., c Vick, R. M., c Vick, R. M., c Vick, R. M., c Vickers, J. H., c Villarreal, L. H., c Vines, W. C., c. Wadley, Blanche, c Wadley, Blanche, c Wallace, Mrs. Mills P., c Walker, Mrs. Mills P., c Walker, Mrs. Mills P., c Wallace, W. W., c Wallace, W. W., c Wallace, W. W., c Wallace, W. C., c Ward, W. L., c Warren, C. C., c Ward, W. L., c Warren, C. C., c Warren, K. J., c Waseon, Lida, c Weaver, T. M., c Weaver, T. M., c Webb, Marie, c	Bryan Bryan Houston College Sta, Weimar San Antonio Weatherford Alvin San Antonio Evant Bryan Teague Dallas Dimmitt Bryan
Webb, Marie, c	Bryan
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Webb, Marie, c	Bryan
Wallace, Smrlreed, c	Bryan

SUMMARY OF ENROLLMENT, SESSION 1931-32

(June 1, 1931 to Apri 15, 1932)

Regular Session, 1931-32:							
COURSE	Grad- uate	Sen- ior	Jun- ior	Sopho- more	Fresh- man	Spe- cial	Total
Agriculture		83	-56	76	143	4	381
Agricultural Administration	3	41	32	43	35	3	157
Agricultural Engineering	. 5	2	5	9	7	_	28
Landscape Art		6	. 4	11	11	_	32
Liberal Arts	_	24	30	52	63	4	173
Science		12	13	26	28	2	94
Architecture		18	21	28	45	_	116
Chemical Engineering		37	43	58	56	-	202
Civil Engineering	. 7	43	58	52	60	-	220
Electrical Engineering		67	65	96	93	1	330
Mechanical Engineering		45	46	71	85	2	254
Petroleum Production Eng		26	41	50	27	-	144
Textile Engineering		5	1	6	2	1	15
Cotton Marketing		-	_	9	5	_	14
Veterinary Medicine		6	7	11	10	_	34
Agricultural Education Industrial Arts Education		11 10	12	13	8	_	44
Industrial Education		3	4	5 1	8	1	28
Rural Education		6	6	1	1 4	1	9
Rural Education		O	0	Т	4	_	23
TOTAL	81	446	443	618	691	19	2298
Non-Collegiate Two-Year Cour	rse in	Agric	ulture	1st vr	0.2 nd τ	7r 1	. 1
Extension Courses in Agricult	ural	Educa	tion				7
Extension Courses in Industria	al Edi	cation	1		••••••	•••••	. 66
Total Regular Session, 19	31-32	·					2372
Summer Session, 1933	1: 1.	College	e		977	•••••	201E
	2.	Cottor	ı Class	sing	. 54		
Total Summer Session, 19	31						1031-
Grand Total		٠			.*		
Grand TotalLess Names Repeated				·····	••••••		3403
Less Names Repeated						•	447
Net Total, Regular Session, 19	31-32	and S	Summe	r Sessi	on, 1931		2956
	10					1,1	* - 1

Short Courses

Summer Session, 1931 and Regular Session, 1931-32:	
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Cotton Seed Oil Mill Operators (June 15-24, 1931)	20
Dairy Manufacturing (Feb. 8-12, 1932)	27
Farm Electrification Short Course (Nov. 5-7, 1931)	45
Farmers' Short Course (July 27-Aug. 1, 1931)	2819
Firemen's Short Course (April 27-29, 1931)	
Graduate Veterinarians (June 1-5, 1931)	
Highway Short Course (April 7-8, 1932)	
Physical Education (Aug. 18-30, 1931)	
Soil and Land Valuation (July 13-15, 1931)	
Pecan Short Course (March 29-31, 1932)	
Total, Short Courses	3743
•	

DEGREES CONFERRED JANUARY 30, 1931

Master of Science (1)

Harry Benjamin Gerbens, B.S., A. & M. College of Texas, 1926.

Major Study-Industrial Education

Thesis: "Five Year Expansion Program for Industrial Arts in Port Arthur, Texas."

Bachelor of Arts

In Liberal Arts (1)

Edward Horton Pepper

Bachelor of Science

In Agricultural Administration (1)

Robert Ellis Hendrick

William Albert Culberson Francis Clark Davis, Jr. Thomas J. Moon

Elo Joe Urbanovsky

Alvis Bryan Duke Leslie Stewart Moore

Stephen Madison Farquhar Robert Ernest Hable

William Benjamin Clute

Stewart Edmund King

Elmer Charles Haller

In Agriculture (5)

Corbin Ransom Owen Harrison Delos Wood

In Architecture (1)

In Chemical Engineering (3)

Joseph Anthony Redinger

In Civil Engineering (3)

Seth Hackett Steele

In Electrical Engineering (1)

In Landscape Art (1)

In Mechanical Engineering (1)

DEGREES CONFERRED AT THE FIFTY-FIFTH ANNUAL COMMENCEMENT

May 30, 1931

Master of Science (19)

Joseph Kelly Blum, B.S., North Carolina State College, 1923.

Major Study-Chemistry Thesis: "The Relation of Lime and Phosphoric Acid to the Growth and Bone Development of White Rats:"

Charles Allen Cates, B. S., A. & M. College of Texas, 1930.

Major Study-Chemical Engineering Thesis: "A Study of the Factors Influencing the Cooking of Sour Cottonseed Meats."

Elmer Cardinal Carlyle, B.S., A. & M. College of Texas, 1906.

Major Study—Chemistry
Thesis: "Relation of Manganese in Texas Soils to Crops."

Jack Fowler Criswell, B.S., A. & M. College of Texas, 1928.

Major Study-Marketing and Finance Thesis: "The Dairy Income on Forty-three Farms in Northeast Texas." Joseph Baker Dent, B.S., Virginia Polytechnic Institute, 1926.

Major Study—Civil Engineering
Thesis: "The Treatment of Dairy Wastes by Means of Filters." James Rufus Emmons, B.S., A. & M. College of Texas, 1931.

Major Study-Agronomy Thesis: "The Reaction of a Number of Soil Types in Brazos County to Different Tests for Acidity."

Bannister Wells Farquhar, B.S., A. & M. College of Texas, 1930.

Major Study-Civil Engineering Thesis: "The Resistance of the Electric Arc-Weld to Impact Load." Merritt James Fields, B.S., Sam Houston State Teachers College, 1928.

Major Study—Agricultural Education
Thesis: "Special Aids and Devices for Teaching Elementary Agriculture in the Public Schools of Texas."

Michel Thomas Halbouty, B.S., A. & M. College of Texas, 1930.

Major Study—Geology
Thesis: "The Geology of Atascosa County, Texas."

Monroe Arthur Hartman, B.S., A. & M. College of Texas, 1930.

Major Study-Agricultural Engineering Thesis: "A Study of Cicaners of Stripped, Snapped and Sledded Cotton." Ernest Ray Henderson, B.S., Arkansas, 1930.

Major Study Civil Engineering Portland Cement Concrete Mixtures for a Predetermined Strength."

John Howard, B.S., A. & M. College of Texas, 1930.

Major Study-Chemical Engineering "A Study of the Factors Influencing the Cooking of Cottonseed Meats."

Byron Caldwell Langley, B.S., A. & M. College of Texas, 1929.

Major Study-Agronomy

"The Effect of Time and Rate of Application of Nitrate of Soda on the Soil and on the Cotton Plant."

Gilbert Edward Loew, B.S., A. & M. College of Texas, 1927.

Major Study-Civil Engineering

Thesis: "An Investigation of the Strength of Texas Limestone Rock Asphalt Paving Mixtures as Affected by Admixtures."

Charles Wallace McMath, B.S., A. & M. College of Texas, 1929.

Major Study-Chemical Engineering

"A Study of a Rapid Electrometric Determination of Moisture in Cooking Cottonseed Meats."

Aussie Archie Miller, B.S., Sam Houston State Teachers College, 1925.

Major Study—Rural Education Thesis: "Community Centers in Texas."

Beauregard Aull Russell, B.S., Clemson Agricultural College, 1923.

Major Study-Marketing and Finance
Thesis: "An Analysis of the Cost of Animal and Mechanical Power on Selected Farms in South Carolina, 1929."

James Herbert Sikes, B.S., Abilene Christian College, 1922.

Major Study-Entomology

Thesis: "The Effect of Contact Insecticides on the Obscure Scale, Chrisomphalus Obscurus (Comstock)."

Milam Frank Thurmond, B.S., A. & M. College of Texas, 1922.

Major Study—Agricultural Engineering
Thesis: "A Study of Farm Shop Contests and Their Relation to the Vocational Agriculture Contest."

Professional Degrees (5)

Agricultural Engineer:

William Henry McPheeters, B.S., A. & M. College of Texas, 1921.

Thesis: "Baffles for Road and Hillside Ditch Protection."

Civil Engineer:

Samuel Robert Wright, B.S., A. & M. College of Texas, 1922.

Thesis: "The Design and Construction of a Sludge Digester."

Electrical Engineer:

Aubrey Stewart Legg, B.S., A. & M. College of Texas, 1921.

Thesis: "Public Utility Management."

Mechanical Engineer:

Estell L. Gibson, B.S., A. & M. College of Texas, 1925.

Thesis: "The Burning of Cement Clinker."

Mechanical Engineer:

Carl Milton Underwood, B.S., A. & M. College of Texas, 1925.

Thesis: "Controlling the Weight of Tin on Tinned Copper Wire."

Bachelor of Arts

In Liberal Arts (23)

In Liberal	Alts (20)		
Jack Yeager Aldrich Bonham Thomas Joheph Andrews Houston Henry Charles Bierman Wellsville, N. Y. John Pierce Bloomer Belton Joseph Hendrix Conway, Jr. Bryan Lansford S. Cook Goose Creek Alton Bernard Dameron West Walter L. Ewell Dallas William Everett Ford Chaple Hill Charles Alexander Graebner Gordan Herrscher Fort Worth	John Henry Ilse Sabinal John A. Jett Houston Thomas Bagby Ketterson Houston Edwin Mathes Moore Houston Clark Lionel Nealon San Antonio Willian Thomas Scully Denison Maurice Sessions Austwell Robert Harry Stiteler Smithville Carroll Adrian Tracy Houston Virgil Allen Vaughn, Vernon Richard N. Winders College Station George M. Wrenn College Station		
Bachelor In Agricultural A	of Science		
Richard Rudolph Atkinson San Antonio Marion Haygood Badger Austin	Raphael Heber Lander Dallas Howard Anson Lang Dallas		
Lloyd Franklin Badgett Port Arthur James Jackson Badgett, Jr Holland	Carl McKelvy		
Elmer David Barker Houston Garlen R. Bryant, Jr. Temple James Andrew Carpenter Dallas	August Joseph Thomas Novosad Bernard Frank Burdette O'Bannon Dallas		
Wiley Jackson Chadwick Brenham William Lewers Combest Olton	Oliver James Orton Bellevue Homer A. Pendleton, Jr Wichita Falls		
Joe Edwin Connell	Chester Chris Schaefer San Antonio Paul J. Sloan San Saba		
Joseph Albert DePasquale Dickinson Joseph Smith Dial Sulphur Springs James Graceton Floyd Rosewood	Paul Byron Tate De Leon Frank Winan Thomas, Jr San Antonio Homer Edwin Thompson Vernon		
Albert Kennedy Hawes	Aubrey R. Todd Jacksonville Clyde Emmitt Vawter Genoa		
Werner Carl Heise La Grange Charlie Herder, Jr. Weimar Dan Will Humason Houston	Raetzsch W. Wagener		
Dan Will Humason Houston Columbus S. Jackson Corsicana	Paul Wilson Hereford Vernon Lane Wimberly Houston		
In Agricultural	Education (14)		
Robert James Buchanan Kurten Claude Joseph Burgin Hondo Robert Hill Campbell Hillsboro Herman Maxwell Carter Stephenville	Welton Horace Jones Granbury Johnnie Estes Lockhart Stephenville Carl Newton Merrell Huckabay Wesley John Neumann Perry		
James Major Cooper Center Wayne Alden Cox Stephenville William B. Holsonbake Farmersville	Vestal Self Payne Stephenville Malcom Gilbert Perkins Mt. Pleasant Oscar L. Ryall Jasper		
George Henry Follett Houston	Engineering (3) Heber Thomas Stewart Poplarville, Miss.		
John Constantine Gilbreath Hereford In Agriculture (48)			
John Leary Allen El Campo	Fate Gibbons Mount Vernon		
Jesse Edward Barker Texarkana	Lee August Ilse Sabinal		
Roy Chester Bell Greenvile	Newman Elwyne Long Como		
Earle John Berryhill Thrall G. H. Bigham Fort Worth	Richard Jackson McCubbin Valley View Samuel Emmett McGregor Bryan		
Harry Luther Boyer Stephenville	Jack Meharg Chillicothe		
Harry Luther Boyer Stephenville Louis Thomas Burns, Jr. Yoakum	Joe Meharg Chillicothe		
William Alston Cannon Texarkana James Russell Couch Grandview	George Leroy Milner Winnsboro Anson Padget Morris Forreston		
Fred Frazier Cowart Robstown	James William Prude Waxahachie		
*Francis Clark Davis, Jr Denton	John Henry Quisenberry Goodlet Claris Boyd Ray Lamesa		
James Rufus Emmons Plainview Lee Heard Garland Hope, Ark.	Claris Boyd Ray Lamesa Andrew Forest Reid College Station		
* Possiromenta completed 1 21 21			

^{*} Requirements completed 1-31-31.

Harrell O. Richey San Augustine	John Henry Taylor Dublin
Thomas Rollin Richmond Kyle	Wayne Elgene Thomason Decatur
Forrest Earl Roberts Terrell	Marvin C. Todd Austin
Halley Garison Rylander Buda	Marvin C. Todd
Norman George Schuessler Llano	J. T. Vantine, Jr Quanah
John Dunbar Sellers Mexia	William Campbell Vertrees Brownsville
David Winfred Sherrill Kerens	Ray Walker Wolfe City
Cameron Siddall Anderson	James Esli Wells Kerens
Marvin Sledge	William A. Whitener Burton
Houston Edward Smith San Angelo	Juddie Johnson Willingham
Delbert Harry Taylor Victoria	College Station
In Archite	eture (16)
In Archite	cture (10)
William Marion Collier, Jr Abilene	Hambant Assessment Dodgett In .
Charles Richard Coneway Friona	Herbert Augustus Padgett, Jr.
Marshall A. Hays San Antonio	Raymond Charles Rippstein San Antonio
Horaco Chartino Honer Abilena	Ernest Morton Russell Fort Worth
Horace Chastine Henry Abilene Albert Gilchrist McKain Greenville	Eugene Joseph Schmidt Rosebud
James Edward Monroe, Jr El Paso	Bernhard Adolf Schriever San Antonio
Vincent John Neuman	William Kopple Schultz Columbus
Lukavice, Czechoslovakia	Garland Collins Sparks Houston
Jesse-Leo Norton Greenville	Raiford Leak Stripling San Augustine
Jesse-Leo Norton Greenville	Ranford Leak Stripling San Augustine
In Chemical En	ngineering (21)
Wilburn Thomas Askew, Jr Fort Worth	Homer Hugh Hagius Terrell
Landis Clyde Baker Dale	Jack E. Laney Eastland
Rophie Eugene Bland Dallas	James Edwin Latta Tyler
Dennis Flynn Cheaney Electra	Wilmer E. McCorquodale Orange
Dennis Flynn Cheaney Electra Joseph Baldwin Clark, Jr Fort Worth Roy Maurice Crawford Nacogdoches	L. T. Mathis Waco
Roy Maurice Crawford Nacogdoches	Harvey Steinle North San Antonio
James O. Cretsinger College Station	Paul Siecke College Station
Carroll Anthony Dauterive Houston	John Walton Simmons Orange
Royce Lee Dixon Port Arthur	Hiram Cyrus Webb Breckenridge
Melvin A. Enquist Sugar Land	Marvin Reuben Williams Humble
Jack Edgar Fulgham Weatherford	2201711 2000011 (1111111111111111111111111111
In Civil Eng	ineering (38)
James H. Aiken Salado	Harold Eugene Johnson Yoakum
Joseph Avant Lafayette, La.	Richard Pate Long Dallas
Rouble C. Barron Wellborn Joseph Weldon Bateson Cleburne Wesley Dent Bentley Bryan David Jonathan Bratton Houston	William Cruse McMurrey Cold Springs
Joseph Weldon Bateson Cleburne	R. E. Morris Big Spring
Wesley Dent Bentley Bryan	Frank Hastings Newnam, Jr. Beaumont Daniel Decatur Nixon Gonzales John Edward O'Bryan El Paso Challes Lovis Biglett
David Jonathan Bratton Houston	Daniel Decatur Nixon Gonzales
Henry Porter Carothers Porterville	John Edward O Bryan El Faso
Mattison Vernon Chaney Abilene	Charles Lewis Fickett 10st
William Lernon Chaney Abilene	Ralph Mershon Sawyer Beaumont Chester A. Schwope Waring
Willis Elmer Collins Schenectady, N. Y. James A. Cotton Abilene	Arthur Caldwell Showman waring
Oscar Lee Crain Lone Oak	Arthur Caldwell Showman St. Louis, Mo.
Allan Navarre DeMaret Bryan	**John William Singleton Dallas
Henry Cooper Dewey Amerillo	William Duncan Staples San Antonio
Henry Cooper Dewey Amarillo Victor O. Fritze San Antonio	Timani Duncan Staples San Antonio
	Alfred E' Stoin Now Prounfold
E H Callenkamn Lomoto	Alfred E. Stein New Braunfels Walter Resgan Swank Wills Point
E. H. Gallenkamp Lometa	Alfred E. Stein
E. H. Gallenkamp Lometa Jesus M. Garcia Hebbronville	Ray Lowrey Tribble Dallas
Jesus M. Garcia Hebbronville Boyd J. Griffin Lubbock	Ray Lowrey Tribble Dallas Ivan Tucker Richland
E. H. Gallenkamp Lometa Jesus M. Garcia Hebbronville Boyd J. Griffin Lubbock Albert Haneman, Jr. Bryan	Ray Lowrey Tribble Dallas
E. H. Gallenkamp Lometa Jesus M. Garcia Hebbronville Boyd J. Griffin Lubbock Albert Haneman, Jr. Bryan Herman Voss Harlan, Jr. Maysville	Ray Lowrey Tribble Dallas Ivan Tucker Richland Russell A. Woodall Calina
E. H. Gallenkamp Lometa Jesus M. Garcia Hebbronville Boyd J. Griffin Lubbock Albert Haneman, Jr. Bryan	Ray Lowrey Tribble Dallas Ivan Tucker Richland Russell A. Woodall Calina
E. H. Gallenkamp Lometa Jesus M. Garcia Hebbronville Boyd J. Griffin Lubbock Albert Haneman, Jr. Bryan Herman Voss Harlan, Jr. Maysville In Electrical E	Ray Lowrey Tribble Dallas Ivan Tucker Richland Russell A. Woodall Calina ngineering (55) Roscoe Dow McCalman Caddo, Okla.
E. H. Gallenkamp Lometa Jesus M. Garcia Hebbronville Boyd J. Griffin Lubbock Albert Haneman, Jr. Bryan Herman Voss Harlan, Jr. Maysville In Electrical E Vicente Aldape Cicero	Ray Lowrey Tribble Dallas Ivan Tucker Richland Russell A. Woodall Calina ngineering (55) Roscoe Dow McCalman Caddo, Okla. Clarence Albert McGee Fort Worth
E. H. Gallenkamp Lometa Jesus M. Garcia Hebbronville Boyd J. Griffin Lubbock Albert Haneman, Jr. Bryan Herman Voss Harlan, Jr. Maysville In Electrical E Vicente Aldape Cicero Saltillo, Coah, Mexico Robert Lee Allen Fort Worth	Ray Lowrey Tribble Dallas Ivan Tucker Richland Russell A. Woodall Calina ngineering (55) Roscoe Dow McCalman Caddo, Okla. Clarence Albert McGee Fort Worth
E. H. Gallenkamp Lometa Jesus M. Garcia Hebbronville Boyd J. Griffin Lubbock Albert Haneman, Jr. Bryan Herman Voss Harlan, Jr. Maysville In Electrical E Vicente Aldape Cicero Saltillo, Coah, Mexico Robert Lee Allen Fort Worth Clarence Thomas Balderach Galveston	Ray Lowrey Tribble Dallas Ivan Tucker Richland Russell A. Woodall Calina ngineering (55) Roscoe Dow McCalman Caddo, Okla. Clarence Albert McGee Fort Worth Jesse Hamilton McGuire Austin Forrest Raymond McIntosh
E. H. Gallenkamp Lometa Jesus M. Garcia Hebbronville Boyd J. Griffin Lubbock Albert Haneman, Jr. Bryan Herman Voss Harlan, Jr. Maysville In Electrical E Vicente Aldape Cicero Saltillo, Coah, Mexico Robert Lee Allen Fort Worth Clarence Thomas Balderach Galveston Thomas Gray Banks, Jr.	Ray Lowrey Tribble Dallas Ivan Tucker Richland Russell A. Woodall Calina ngineering (55) Roscoe Dow McCalman Caddo, Okla. Clarence Albert McGee Fort Worth Jesse Hamilton McGuire Austin Forrest Raymond McIntosh
E. H. Gallenkamp Lometa Jesus M. Garcia Hebbronville Boyd J. Griffin Lubbock Albert Haneman, Jr. Bryan Herman Voss Harlan, Jr. Maysville In Electrical E Vicente Aldape Cicero Saltillo, Coah, Mexico Robert Lee Allen Fort Worth Clarence Thomas Balderach Galveston Thomas Gray Banks, Jr. Oklahoma City, Oklahoma	Ray Lowrey Tribble Dallas Ivan Tucker Richland Russell A. Woodall Calina ngineering (55) Roscoe Dow McCalman Caddo, Okla. Clarence Albert McGee Fort Worth Jesse Hamilton McGuire Austin
E. H. Gallenkamp Lometa Jesus M. Garcia Hebbronville Boyd J. Griffin Lubbock Albert Haneman, Jr. Bryan Herman Voss Harlan, Jr. Maysville In Electrical E Vicente Aldape Cicero Saltillo, Coah, Mexico Robert Lee Allen Fort Worth Clarence Thomas Balderach Galveston	Ray Lowrey Tribble Dallas Ivan Tucker Richland Russell A. Woodall Calina ngineering (55) Roscoe Dow McCalman Caddo, Okla. Clarence Albert McGee Fort Worth Jesse Hamilton McGuire Austin Forrest Raymond McIntosh Cavina, Calif.
E. H. Gallenkamp Lometa Jesus M. Garcia Hebbronville Boyd J. Griffin Lubbock Albert Haneman, Jr. Bryan Herman Voss Harlan, Jr. Maysville In Electrical E Vicente Aldape Cicero Saltillo, Coah, Mexico Robert Lee Allen Fort Worth Clarence Thomas Balderach Galveston Thomas Gray Banks, Jr. Oklahoma City, Oklahoma	Ray Lowrey Tribble Dallas Ivan Tucker Richland Russell A. Woodall Calina ngineering (55) Roscoe Dow McCalman Caddo, Okla. Clarence Albert McGee Fort Worth Jesse Hamilton McGuire Austin Forrest Raymond McIntosh Cavina, Calif. Lawrence Louis Malaise Handley

^{**} Deceased

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Charles Spurgeon Basinger Dallas	John Dunklin Mitcham Murchison
Frank Edward Bortle Longview	C. B. Moehlman Bryan
Edward Harrison Brady	Kennard S. Moss Port Arthur
Oklahoma City, Okla.	Herman Dean Murray Merkel Jack Nicholas Nahas Beaumont
Horace Kirtland Brown Houston Robert Lee Bullock, Jr. Taylor	Jack Nicholas, Nanas Deaumont
Robert Lee Bullock, Jr Taylor	Jordan Kennon Reynolds Pittsburg
James Henry Burney Bishop	Gustav Robert Robertson Temple
Edward Miller Carl, Jr San Antonio	Robert Saibara Webster
Willian John Chalkley Ranger	Ivan Seaberg Dayton
William Edgar Clower Dallas	John August Shellberg, Jr Fort Worth
George Arthur Cushman San Antonio	Charles Emerson Simpson Harlingen
Robert Clinton Daniel Cleburne	Clyde Brooks Smith Dallas
John Randolph Dean Athens	George Jefferson Smith Gonzales James Bradley Smith Dallas
Henry Adair Eddins Marquez	James Bradley Smith Dallas
Clarence William Evans Corsicana	Thomas Milton Sowell Cleburne
Arthur George Forster Dallas	Mortimer Henry Stewart Houston Robert Augustus Sullivan, Jr
Everett Charles Harper Brenham	Robert Augustus Sullivan, Jr
Horace Holden, Jr Franklin	Shreveport, La.
Phillip Emil Jacobs Galveston	Henry Timmerman Pflugerville
Theron Simpson Jobson San Marcos	Harvey Joe Williams Dodd City
Christian D. Kauffman Fort Worth	Wallace Lee Wilson San Antonio
Willis Newton Keisling Stanton	Harry M. Wingren Denison
George Phillip Lewie Gainesville	Herschel P. Wooley Houston
In Industrial Art	ts Education (8)
John Sparks Bell Sulphur SpringsJo	
Edward Joe Bohuslav Moulton	Don Leo Hurst Ferris
Leland Poythress Card Houston	Berthold E. Nowotny New Braunfels
Jack Omar Harrington Plano	Nathaniel Barkstell Read Waco
In Industrial 1	Education (1)
Robert Pinson Corpus Christi	
In Landsca	ne Art (5)
James Brandon Fitzpatrick Sweetwater	Richard Price Lively Dallas
Kenneth Lloyd Haggard Bonham *Stewart Edmund King San Antonio	Day Pattison McNeel San Antonio
In Mechanical E	ingineering (34)
Clarence Glynn Albert San Angelo	Wylie K. Laster Cuero
William M. Andrews, Jr Abilene	Richard L. McAlpine Dallas
John Sellers Craig Hamilton	Richard L. McAlpine Dallas Edward O. McDonald Jefferson
James O. Cretsinger College Station	Thomas Campbell McGuire Houston
Thomas Allen Diatz Forney	Arthur Lee McKnight El Paso
Clyde Virgil Ellis Wichita Falls	George Albert Mather, Jr San Antonio
Norman Fischer Cuero	Walter Earl Syphrett Maxwell Houston
Richard Elwood Fischer Houston	Richard Oldham Montrief Fort Worth
Sterling W. Florentin College Station	Paul Luton Morgan Leesville, La.
Robert Hyron Floyd Longview	Ewell Curtis Phillips Ranger
Walter Granville Free	Wilford Frank Pickard San Antonio
New Orleans, La.	James Donald Richter Moulton
Lee Godsey Jacksonville	Henry F. C. Rumfelt Dallas
Alvin Howard Grantham McGregor	George Hardin Shifflett, Jr.
Arthur Wilhelm Groendes Moody	Marble Falls
Elton A. Holland College Station	Herman Richard Siemers Waco
Judson George Jackson Gainesville	Frederick George Sleeper Alexander, La.
Joseph Weldon Jennings Kosse	Herman Bryan Witte Yoakum
In Petroleum Product	tion Engineering (2)
Albert Luther Palmer Terrell	William Benton Powers Beaumont
In Rural Ed	
Ralph Robert Dorsey Fort Worth	Don B. Slocomb, Jr Cameron
Walter Mark Emmons Plainview	Reuben Maverick Welsh San Antonio
John Bernard Patteson Morgan Mill	Taylor Edward Wootton, Jr Thorndale
In Scien	ce (11)
Robert Nelson Daniel Dallas	Sam Grigsby Meharg Plainview
Charles Frederick Falley San Antonio	John Henry Milliff Crockett
Charles Francis Girand San Antonio	Alton A. Nance Houston
	_

^{*} Requirements completed 1-31-31.

James Leeper Hawley Dallas Newton Willard Lamb Dallas John Augustus Mathis, Jr. Gilmer	Frank W. Parent			
In Textile Engineering (2)				
William Edmund Harwood Cuero	Edwin William Knippa Knippa			
Doctor of Veterinary Medicine (6)				
Fred M. Burkey Houston Walter Cecil Butler Kennedale	Robert Edgar Starnes Dallas			
Ray Travis Dickinson Marshall	Clarence C. Young Graham			

DEGREES CONFERRED AUGUST 29, 1931

Master of Science (15)

1 homas Joseph Arceneaux, B.S., Southwestern Louisiana Institute, 1929.

Major Study—Agronomy
Thesis: "The Effects of Certain Fertilizers on Germination and Seedling
Growth of Rice."

Thomas Jefferson Carruth, B.S., Louisiana State University, 1923.

Major Study—Agronomy

Thesis: "The Effect of Carbon Disulphide on the Germination and Seedling Growth of Seed Corn."

John Thomas Egan, B.S., A. & M. College of Texas, 1913.

Major Study—Agricultural Economics

Thesis: "Quality and Price Differentials of the Texas Cotton Crop of 1928."

Perry William Fite, B.S., East Texas State Teachers College, 1926.

Major Study—Industrial Education

Thesis: "A Study of the Qualifications of Teachers of Industrial Arts in Texas."

Edgar Wilson Glenn, B.S., A. & M. College of Texas, 1930.

Major Study-Architecture
Thesis: "A Study of the Foundation Soils at College Station, Texas."

Rashid Rauf Habib, B.S., A. & M. College of Texas, 1931.

Thesis: "A Study of Certain Lint Properties of Three Varieties of Cotton (Gossypium Hirsutum)."

Justin Stanley Hemenway, B.S., Massachusetts Agricultural College, 1916.

Major Study—Rural Education
Thesis: "A Study of Social and Economic Conditions in the Rural Districts of Brazos County, Texas."

Roy Balfour Mefferd, B.A., Simmons University, 1917.

Major Study--Poultry Husbandry
Thesis: "A Study to Determine the Cost of Production of Ready-to-Lay
Single Comb White Leghorn Pullets in Central Texas."

Albert Thomas Meymarian, B.S., A. & M. College of Texas, 1930.

Major Study--Entomology

Thesis: "The Effects of Fumigants on the Bee Moth, Galleria Mellonella
Linn."

Jesse Lee Owens, B.S., A. and M. College of Texas, 1925.

Major Study—Agricultural Education
"Farm Jobs for a Three Year Course in Vocational Agriculture Thesis: in Denton, Wise and Grayson Counties, Texas."

Noel Madison Pittman, B.S., North Texas State Teachers College, 1926.

Major Study—Industrial Education
Thesis: "A Study of Reimbursements for Vocational Education."

Lonnie Irving Samuel, B.S., A. & M. College of Texas, 1926.

Major Study—Agricultural Education
"A Study of the Cost of Cotton Production as Revealed by Vocational Agricultural Supervised Practice Programs in Farming Area Fifteen of Texas."

Henry Cecil Spencer, B.A., Baylor University, 1929.

Major Study-Industrial Education Thesis: "A Study of Grading in Engineering Drawing and Descriptive Geometry in the Agricultural and Mechanical College of Texas."

Ernest McCullough Walls, B.A., Abilene Christian College, 1926.

Major Study-Rural Education

Thesis: "Extra-Curricular Activities of the Junior High Schools of Houston, Texas.

Ben Wilkins Young, B.S., Peabody College, 1919.

Major Study-Industrial Education "A General Shop for the Demonstration School of the Sam Thesis: Houston State Teachers College."

Bachelor of Arts

Robert Houston Gardner Roswell G. Higginbotham Ray A. Hirons

In Liberal Arts (5)
William Francis Minkert
Max Carl Winkler

Bachelor of Science

In Agricultural Administration (2)

Hiram Thomas Bartlett Jackson

In Agriculture (4)

Rashid Rauf Habib Robert Allen Humphris

Samuel Leon Adams William Zelna Compton James B. Cooper Morris S. Dean Cisero B. Edwards Alton Brooks Emmons

Frederick Seymour Buford

Emmett D. Giffen

In Agricultural Education (11) W. Doyle Graves

Albert E. Koehler

Joe Morris Martin

Lenox M. Ligon

George Dewey Mulley Henry Lee Purvis Hubert L. Snencer Wilton Edward Williams

In Architecture (2)

William Hal Phelps, Jr. In Chemical Engineering (3)
John Clayton Ward

In Civil Engineering (4)

Pablo M. Cuellar Valdes Sankey Arthur Gunn

John Finis Rettiger Clark C. Stroud

John Lorenz Alber	Electrical Engineering (4) Willie Homer Myers	
John Lorenz Alber John F. Blair	William Thomas Wingo	
	Industrial Arts Education (3)	
Estill Reece Aday Clyde Lee Brown	John Dollinger III	
In	Industrial Education (1)	
F. W. Erhard, Jr.		
	Mechanical Engineering (2)	
Starley N. Boykin, Jr.	Gilbert Martin Vick In Rural Education (4)	
Alfred E. Day	Milton Powell Mathews	i ,
Hollis P. Ford	James O. Woodman	
		
SUMMARY	OF DEGREES CONFERRED	•
(February	1, 1931 to September 1, 1931)	:
Advanced:	*	
Master of Science	uus quiga 200 fibras ay iidd y sig wah, iir i'r ay yn ar gâ haidy y 800 Ayn gan Day of h a gul i gul i'r bara barri an	35
0		
Baccalaureate Degrees:		
Bachelor of Arts		*
Bachelor of Science		
	In Liberal Arts	
	In Agricultural Administration	
	In Agricultural Education	
	In Agricultural Engineering	
	In Agriculture	
	In Architecture	
	In Chemical Engineering	
	In Civil Engineering	
	In Electrical Engineering	
	In Industrial Arts Education	
	In Industrial Education	
	In Landscape Art	
	In Mechanical Engineering	
	In Petroleum Production Engineering	
	In Rural Education	
	In Science	
	In Textile Engineering	
Doctor of Veterinary Medic	sine	6
TOTAL		435

DISTINGUISHED STUDENTS

Session 1930-31

At the end of each session students who have failed in no subject and who have accumulated a total of at least fifty-four grade points during the session are designated as "Distinguished Students."

Freshman Class

Alexander, R. T.
Appelt, W. F.
Ashby, G. K.
Ballinger, R. H.
Bednar, W. C.
Biggs, A. K.
Blackwood, H. W.
Brin, Philip
Brown, R. G.
Burns, J. A.
Coultrup, J. G., Jr.
Early, A. M.
Elliott, K. F.
Franklin, G. M.
Gearrea!d, T. N.
Gremmel, Fred

Barron, J. C.
Beeson, C. E.
Besse, C. P.
Boswell, H. G.
Buie, E. C.
Evans, W. T.
Ford, O. E.
Handler, I. A.

Beasley, J. O.
Bell, L. E.
Benke, M. L.
Blanchette, A. J.
Bourland, A. R.
Cook, L. M.
Corns, I. C.
Cox, D.
Curtis, W. M.
Daeuble, L., Jr.
Davis, D. R.
Davis, G. W.
Denman, T. E., Jr.
Drew, T. M.

Aldape, V.
Atkinson, R. R.
Barbee, J. E.
Bateson, J. W.
Bell, R. C.
Bortle, F. E.
Carothers, H. P.
Chalkley, W. J.
Clement, F. M.
Cope, J. T.
Cotton, J. A.
Cowart, F. F.
Dameron, A. B.
Ford, W. E.:
Harper, E. C.

Hilger, T. A.
Holmes, W. W.
Ismail, A. J.
Lacy, W. G., Jr.
Little, J. R.
Logan, W. B.
Martin, H. F.
Morrow, H. N., Jr.
Nichols, J. A.
Pawkett, L. S.
Peacock, Virgil
Porter, R. E., Jr.
Rambo, Adsit
Rawls, J. B.
Saunders, F.
Scruggs, J. H.
Sophomore Class

Kelsey, M. P.
Kidd, J. B.
Ludeman, M. F.
Manzanera, Lorenzo
Miller, A. J.
Moody, E. K.
Patton, R. L.
Perkins, H. W.
Johnston, C. C.

Junior Class

Ellisor, L. O. Fermier, G. F. Fix, G. J., Jr. Golenternek, J. Halliday, O. T. Hellums, E. C. Hemphill, W. B. Hocker, O. B., Jr. Holliman, C. I. Horne, R. C. Hurley, J. E., Jr. Jackman, M. D. Lawhon, L. F. Lee, B. D.

Senior Class

Hays, M.
Ketterson, T. B., Jr.
Lamb, N. E.
Lewie, G. P.
Latta, J. E.
Long, N. E.
McKelvy, C.
McKnight, A. L.
Morgan, P. L.
Nahas, J. N.
Newnam, F. H., Jr.
O'Bannon, G. B.
Orton, O. J.
Pendleton, A. M.
Pendleton, H. A., Jr.

Steinhoff, R. G.
Sullins, C. A.
Swain, Oren
Turner, W. H.
Vandergriff, A. F.
Walker, O. P.
Walton, J. I.
Weaver, J. E.
White, K. K.
Wilkinson, J. H., Jr.
Wilson, J. M.
Winkler, T. H.
York, O. S., Jr.
Zimmerman, K. E.

Rabel, J. E.
Rechenthin, C. A.
Samuels, G. H.
Simpson, W. M.
Steele, W. E.
Varraux, I. A.
Williams, J. C., Jr.

Poole, J. E.

Lester, C. J.
McGinnis, F. K.
Mulloy, G. D.
Nash, C. C.
Oakes, H.
Parker, W. H.
Rechenthin, C. A.
Slaughter, H. W.
Stephenson, W. P.
Stobart, E. A.
Suggs, R. L.
Turner, J. B.
Von Roeder, R. J.
Ward, D. R.

Quisenberry, J. H.
Richmond, T. R.
Schuessler, N. G.
Sellers, J. D.
Sledge, M.
Taylor, D. H.
Vantine, J. T., Jr.
Walker, R.
Willingham, J. J.
Woodman, J. O.
Wootton, T. E.
Wren, G. M.

OFFICERS OF ASSOCIATION OF FORMER	STUDENTS—1931-32
JULIAN B. THOMAS, '11, Fort Worth JACK SHELTON, '17, Luling E. E. McQUILLEN, '20, College Station	Vice-President
L. B. LOCKE, '19, College Station	
DIRECTORS	
(at Large):	
L. D. ROYER, '13	San Antonio
JULIAN B. THOMAS, '11	Fort Worth
BURT E. HULL, '04	
W. W. STERLING, '07	
E. H. ASTIN, '99	Bryan
JACK SHELTON, '17	Luling
W. F. WISE, '09	Dallas
(United States Congressional Districts):	•
L. M. GILMORE, '18	Paris
JOHN W. NEWTON, '12	
MAX GILFILLAN, '17	
J. T. ROLLINS, '21	McKinney
DAVE LEVY, '14	Dallas
TYREE L. BELL, '15	
W. T. GARBADE, '01	
L. C. DONEY, '17	
SAM K. SEYMOUR, '17	
C. HOHN, '14	
H. G. HYNDS, '10	
V. W. MILLER, '13	
C. P. DODSON, '11	
A. RUMMEL, '26	
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