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61

COLLEGE STATION, TEXAS

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1937

JULY

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THE COLLEGE CALENDAR

Summer Session of 1937

JUNE 8, TUESDAY, 8 a. m. - 12 m., Registration for the first term.
JUNE 8, TUESDAY, 1 p. m. - 5 p. m., Classes begin.
JUNE 11, FRIDAY, Last day for registration in the College division for credit during the first term.
JULY 4, Independence Day.
JULY 16-17, FRIDAY, SATURDAY, First term examinations.
JULY 19, MONDAY, 8 a. m. - 12 m., Registration for the second term.
JULY 19, MONDAY, 1 p. m. - 5 p. m., Classes begin.
JULY 22, THURSDAY, Last day for registration in the College division for credit during the second term.
AUGUST 27-28, FRIDAY, SATURDAY, Second term examinations.

Regular Session of 1937-38

1937

SEPTEMBER 17, FRIDAY, Entrance Examinations.
SEPTEMBER 20, MONDAY, Opening of the First Semester, Registration of new students.
SEPTEMBER 20, MONDAY, 8 a. m. - 5 p. m., Reexaminations.
SEPTEMBER 21, TUESDAY, Registration of old students.
SEPTEMBER 21, TUESDAY, Freshman Program.
SEPTEMBER 22, WEDNESDAY, First Semester classes begin at 8 a. m.
SEPTEMBER 29, WEDNESDAY, 8 - 10 a. m., Psychological Test.
OCTOBER 6, WEDNESDAY, 10 a. m. - 12 m., Cooperative English Test.
NOVEMBER 11, THURSDAY, Observance of Armistice Day, 11 a. m.
NOVEMBER 25-27, INCLUSIVE, THURSDAY, FRIDAY, SATURDAY, Thanksgiving Recess.
DECEMBER 18, SATURDAY, Christmas recess begins at noon.

1938

JANUARY 2, SUNDAY, 6 p. m., Christmas recess ends.
JANUARY 29-FEBRUARY 4, INCLUSIVE, Semester examinations.
FEBRUARY 5 and 7, SATURDAY, MONDAY, Registration for the Second Semester.
FEBRUARY 8, TUESDAY, Second Semester Classes begin at 8 a. m.
FEBRUARY 20-26, Campus Church Week.
APRIL 21-23, INCLUSIVE, THURSDAY, FRIDAY, SATURDAY, Spring recess.
MAY 28-JUNE 3, INCLUSIVE, Semester examinations.
JUNE 3, FRIDAY, Commencement Sermon.
JUNE 3-4, COMMENCEMENT.

Part I

OFFICERS OF ADMINISTRATION AND INSTRUCTION

BOARD OF DIRECTORS

Members

TERM EXPIRES 1939

EDWARD J. KIEST, Owner and Publisher, Dallas Times-Herald ..... Dallas
ROY B. DAVIS, Manager of Plains Cooperative ..... Plainview
R. W. BRIGGS, Contractor ..... Pharr

TERM EXPIRES 1941

F. MARION LAW, President, First National Bank ..... Houston
WALTER G. LACY, President, Citizens National Bank ..... Waco
JOE UTAY, Attorney-at-Law ..... Dallas

TERM EXPIRES 1943

HENRY C. SCHUHMACHER, President, Schuhmacher Co. ..... Houston
ELLIOTT ROOSEVELT, Vice-President, Hearst Radio, Inc. and President, KTSA Broadcasting Company ..... Fort Worth
G. R. WHITE, Banker and Ranchman ..... Brady

Officers

F. M. LAW, President

WALTER G. LACY, 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 Emeritus of the College.*
FRANK C. BOLTON, M.S., LL.D., *Dean of the College and of the School of Engineering.*
EDWIN JACKSON KYLE, B.S., B.S.A., M.S.A., *Dean of the School of Agriculture.*
THOMAS DUDLEY BROOKS, Ph.D., *Dean of the Graduate School and of the School of Arts and Sciences.*
ROSS PERRY MARSTELLER, D.V.M., *Acting Dean of the School of Veterinary Medicine.*
CHARLES H. WINKLER, Ph.D., *Director of the Summer Session.*
ARTHUR B. CONNER, M.S., *Director of the Agricultural Experiment Station.*
FREDERICK E. GIESECKE, M.E., Ph.D., *Director of the Engineering Experiment Station; College Architect.*
ERIC O. SIECKE, B.A., B.S.F., *Director of the Forest Service.*
H. H. WILLIAMSON, B.S., *Director of the Agricultural Extension Service.*
GEORGE S. FRAPS, Ph.D., *State Chemist.*
F. L. THOMAS, Ph.D., *State Entomologist.*
R. E. KARPER, M.S., *Vice-Director of the Agricultural Experiment Station.*
MILDRED HORTON, *Vice-Director of the Agricultural Extension Service.*
JACK SHELTON, B.S., *Vice-Director of the Agricultural Extension Service.*

Office of the Registrar

EUGENE J. HOWELL, M.S., *Registrar and Secretary of the Faculty.*
HOMER L. HEATON, M.S., *Assistant Registrar.*
GEORGE E. SCHUNIOR, 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

FRANK G. ANDERSON, M.A., *Colonel, Field Artillery Reserve, Commandant.*
JOE E. DAVIS, B.S., *Second Lieutenant, Infantry Reserve, Assistant Commandant.*

The Library

THOMAS F. MAYO, Ph.D., *Librarian.*
MRS. W. H. THOMAS, *Assistant Librarian.*
[1]MARY RICE, B.A., B.S., *Assistant Librarian.*
MRS. AUDREY ADICKS BARNARD, B.S., *Assistant Librarian.*
MRS. R. K. FLETCHER, A.B., *Head Cataloguer.*
MARGUERITE BOWLES, B.A., B.S., *Assistant Cataloguer.*
MRS. MARY JEANNE TREICHLER, B.A., B.S., *Assistant Cataloguer.*
MISS CLARA MAY MCFRANCIS, Ph.B., *Assistant Cataloguer.*

Office of the College Architect

FREDERICK E. GIESECKE, M.E., Ph.D., *College Architect.*
PHILLIP G. NORTON, B.S., *Assistant to the College Architect.*

The Hospital

J. E. MARSH, B.A., M.D., *College Physician.*
MRS. IRENE CLAGHORN, *Assistant Superintendent.*

The Young Men's Christian Association

MASON L. CASHION, A.B., *Secretary.*
J. GORDON GAY, M.A., *Assistant Secretary.*

The Publicity Office

CURTIS VINSON, *Director of Publicity.*
T. B. KETTERSON, B.A., *Assistant to the Director.*
RUBY MORROW, A.B., *Secretary.*

Other Officers

B. D. MARBURGER, B.S., *Superintendent of Buildings and College Utilities.*
W. A. DUNCAN, *Supervisor of Subsistence.*
R. K. CHATHAM, *Manager of the Exchange Store.*
E. L. ANGELL, A.M., *Manager of Student Publications.*
RICHARD J. DUNN, *Director of the Band.*
S. C. HOYLE, A.B., *Editor of College Publications.*

[1] On leave, 1936-37.

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 Emeritus of the College.* (1889, 1932)

M.A., Richmond College, 1881; C.E., Virginia, 1885; LL.D., Daniel Baker, 1914.

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.* (1903)

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 College, Dean of the School of Engineering, Professor of Electrical Engineering.* (1909, 1932)

B.S., Mississippi State College, 1905; M.S., Ohio State, 1928; LL.D., Austin College, 1932.

ALVA MITCHELL, *Professor of Engineering Drawing.* (1902, 1912)

B.C.E., Agricultural and Mechanical College of Texas, 1894.

CHARLES CLEVELAND HEDGES, *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, Acting Dean of the School of Veterinary Medicine.* (1905, 1936)

D.V.M., Ohio State, 1905.

OSCAR WILLIAM SILVEY, *Professor of Physics.* (1916)

A.B., Indiana, 1907; A.M., 1910; Ph.D., Chicago, 1915.

FLOYD BRAZILIA CLARK, *Professor of Economics.* (1916).

A.B., Richmond College, 1907; M.A., 1908; Ph.D., Johns Hopkins, 1914.

SHERMAN WEAVER BILSING, *Professor of Entomology.* (1913, 1918)

A.B., Ohio State, 1912: M.A., 1913; Ph.D., 1924.

DANIELS SCOATES, *Professor of Agricultural Engineering.* (1919)

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, *Professor of Psychology; Director of the Summer Session.* (1923, 1935)

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.

WILLIAM LYCURGUS HUGHES, *Professor of 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.

THOMAS WILLIAM LELAND, *Professor of Accounting and Statistics.* (1922, 1926)

B.A., Wisconsin, 1921; M.A., 1922; C.P.A., 1929.

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 NOAH SHEPARDSON, *Professor of Dairy Husbandry.* (1928)

B.S., Colorado State 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.

MARTIN COLLINS HUGHES, *Professor of Electrical Engineering,* (1923, 1932)

B.S., Illinois, 1917; E.E., 1926.

WALTER LEE PORTER, *Professor of Mathematics,* (1918, 1932)

A.B., Howard College, 1911; M.S., Agricultural and Mechanical College of Texas, 1926.

THOMAS DUDLEY BROOKS, *Dean of the Graduate School; Dean of the School of Arts and Sciences.* (1932)

A.B., Baylor, 1903; A.M., Chicago, 1920; Ph.D., 1921.

EUGENE JODY HOWELL, *Registrar and Secretary of the Faculty.* (1930, 1932)

B.S., Agricultural and Mechanical College of Texas, 1922; M.S., 1932.

HOMER HILL NORTON, *Professor of Physical Education.* (1934)

HAROLD VANCE, *Professor of Petroleum Engineering.* (1934)

B.S., California, 1923.

JUSTUS WHEELER BARGER, *Professor of Agricultural Economics.* (1929, 1935)

B.S., Kansas State College, 1922; M.S., 1923; M.A., Leland Stanford, 1929.

FRANK GIST ANDERSON, *Colonel, Field Artillery Reserve, Commandant.* (1920, 1935)

B.S., Mississippi College, 1916; M.A., 1917.

ELMER ROSS ALEXANDER, *Professor of Agricultural Education.* (1919, 1935)

A.B., Baylor, 1919; B.S., Agricultural and Mechanical College of Texas, 1923; M.S., 1926.

CHARLES LAURENCE BAKER, *Professor of Geology.* (1935)

S.B., Chicago, 1908; M.A., California, 1916.

GUY WEBB ADRIANCE, *Professor of Horticulture.* (1920, 1935)

B.S., Agricultural and Mechanical College of Texas, 1915; M.S., California, 1917; Ph.D., Michigan State College, 1929.

PATTON WRIGHT BURNS, *Professor of Veterinary Physiology and Pharmacology* (1926, 1935)

B.S., Agricultural and Mechanical College of Texas, 1923; D.V.M., 1926.

CONVERSE R. LEWIS, *Colonel, Infantry, Professor of Military Science and Tactics.* (1936)

THOMAS FRANKLIN MAYO, *Professor of English; Librarian of the College.* (1916, 1936)

B.A., Mississippi, 1913; A.M., Oxford, 1922; Ph.D., Columbia, 1934.

IDE PEEBLES TROTTER, *Professor of Agronomy.* (1936)

B.A., Mississippi College, 1915; B.S., Mississippi State College, 1918; M.S., 1921; Ph.D., Wisconsin, 1933.

OTHER MEMBERS OF THE TEACHING STAFF

Professors

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 State College, 1913; 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 Mechancial 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 Education.* (1920, 1927)
B.S., Agricultural and Mechanical College of Texas, 1923; A.M., Columbia, 1926.

VANGEL KONSTANTINE SUGAREFF, *Professor of History.* (1923, 1927)
A.B., Syracuse, 1917; A.M., Harvard, 1918.

CHARLES ORVINE SPRIGGS, *Professor of Public Speaking.* (1926, 1927)
A.B., Indiana, 1924; M.A., Northwestern, 1930.

ARTHUR KAPP MACKEY, *Professor of Animal Husbandry.* (1925, 1928)
B.S., Purdue, 1921; M.S., Illinois, 1923.

ROBERT GATLIN REEVES, *Professor of Biology.* (1928)
B.S., Mississippi State College, 1922; M.S., 1923; Ph.D., Iowa State College, 1928.

LINTON ELIAS GRINTER, *Professor of Structural Engineering.* (1928, 1929)
B.S., Kansas, 1923; C.E., 1930; M.S., Illinois, 1924; Ph.D., 1926.

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.

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, 1926.

NESTOR MASSIE MCGINNIS, *Professor of Landscape Art.* (1915, 1930)

B.S., Agricultural and Mechanical College of Texas, 1908.

WILLIAM CLAUDE WASHINGTON, *Lieutenant Colonel, Coast Artillery Corps, Professor of Military Science and Tactics.* (1931)

B.S., Agricultural and Mechanical College of Texas, 1912.

AUGUST ALBERT LENERT, *Professor of Veterinary Medicine.* (1919, 1934)

B.S., Agricultural and Mechanical College of Texas, 1914; D.V.M., Kansas City Veterinary College, 1917.

CLARENCE JACK FINNEY, *Professor of Architecture.* (1926, 1934)

B.S., Agricultural and Mechanical College of Texas, 1922; Ecole des Beaux-Arts, Fontainbleau, 1923.

WILLIAM ROSS IRVIN, *Major, Cavalry, Professor of Military Science and Tactics.* (1934)

IRA GILLESPIE ADAMS, *Professor of Economics.* (1927, 1935)

A.B., Evansville College, 1923; A.M., Minnesota, 1927.

ROBERT LEE HUNT, *Professor of Agricultural Economics.* (1927, 1935)

B.S., Agricultural and Mechanical College of Texas, 1924; M.S., North Carolina State College, 1927; Ph.D., Wisconsin, 1934.

FRED RUFUS JONES, *Professor of Agricultural Engineering.* (1921, 1935)

B.S., Wisconsin, 1915; M.S., Iowa State College, 1931.

STEWART SAMUEL MORGAN, *Professor of English.* (1921, 1935)

B.A., Cincinnati, 1926; M.A., Ohio State, 1927; Ph.D., 1933.

GEORGE CHILDS BAUER, *Professor of Analytical Chemistry.* (1922, 1935)

B.S., Kentucky, 1920; M.S., Iowa State College, 1927.

DALLAS ROYCE ALFONTE, *Major, Infantry, Professor of Military Science and Tactics.* (1932, 1935)

HENRY ROSS, *Professor of Agricultural Education.* (1935)

B.S., Agricultural and Mechanical College of Texas, 1923; M.S., 1935.

JOHN WESLEY ROLLINS, *Professor of Physical Education.* (1935)

B.S., Agricultural and Mechanical College of Texas, 1917.

LOUIS SIMMONS STICKNEY, *Major, Signal Corps, Professor of Military Science and Tactics.* (1935)

JAMES WILSON RICE, *Major, Chemical Warfare Service, Professor of Military Science and Tactics.* (1935)

B.S., Nevada, 1927; M.S., Massachusetts Institute of Technology, 1930.

CHAUNCEY BARGER GODBEY, *Professor of Genetics.* (1926, 1936)

B.S., Kentucky, 1925; M.S., Agricultural and Mechanical College of Texas, 1926.

ORVA E. BEEZLEY, *Major, Field Artillery, Professor of Military Science and Tactics.* (1936)

JOHN G. DRINKWATER, *Major, Corps of Engineers, Professor of Military Science and Tactics.* (1936)

M.E., Stevens Institute of Technology, 1909.

Associate Professors

FREDERICK ARTHUR BURT, *Associate Professor of Geology.* (1921)

B.S., Colgate, 1908; M.S., Chicago, 1929.

PERCY GLYDON GUNTER, *Associate Professor of English.* (1911, 1922)

A.B., Elon College, 1909; M.A., North Carolina, 1910.

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, 1920.

ARTHUR EDWARD WHARTON, *Associate Professor of Veterinary Pathology.* (1926)

D.V.M., Colorado State College, 1925.

EDWARD EARL VEZEY, *Associate Professor of Physics.* (1920, 1927)

B.S., Oklahoma Agricultural and Mechanical College, 1910; M.S., Agricultural and Mechanical College of Texas, 1927.

LEROY LEVY FOURAKER, *Associate Professor of Electrical Engineering.* (1920, 1927)

B.S., Agricultural and Mechanical College of Texas, 1914; M.S., 1927.

VAN ALLEN LITTLE, *Associate Professor of Entomology.* (1923, 1927)

B.A., Sam Houston State Teachers College, 1922; M.S., Agricultural and Mechanical College of Texas, 1925.

CARL EDWARD SANDSTEDT, *Associate Professor of Civil Engineering.* (1923, 1927)

A.B., Leland Stanford, 1910; M.S., Agricultural and Mechanical College of Texas, 1928.

FRED ROBERT BRISON, *Associate Profeesor 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.

OSCAR ARNOLD WEINKE, *Associate Professor of Accounting and Statistics.* (1924, 1928)

B.A., Wisconsin, 1921; M.S., Agricultural and Mechanical College of Texas, 1928.

JOSEPH JOHN WOOLKET, *Associate Professor of Modern Languages.* (1925, 1929)

A.B., Oberlin College, 1924; M.A., 1925.

ELVER WILLIAM RENNER, *Associate Professor of Dairy Husbandry.* (1930)

B.S., Iowa State College, 1918; M.S., 1929.

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.

[1]LELAND SHUMWAY PAINE, *Associate Professor of Agricultural Economics.* (1927, 1930)

B.A., Nebraska, 1922; M.A., Wisconsin, 1926.

EDGAR WILSON GLENN, *Associate Professor of Industrial Education.* (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.

NAT EDMONSON, JR., *Associate Professor of Mathematics.* (1931, 1933)

B.A., Austin College, 1924; M.A., 1925; Ph.D., Rice, 1929.

CLIFTON CHILDRESS DOAK, *Associate Professor of Biology.* (1926, 1934)

B.S., North Texas State Teachers College, 1922; M.S., Agricultural and Mechanical College of Texas, 1928; Ph.D., Illinois, 1933.

JOHN HENRY BINNEY, *Associate Professor of Mathematics.* (1925, 1934)

B.S., Sam Houston State Teachers College, 1924; M.A., Texas, 1925; Ph.D., Rice, 1933.

WILLIAM FORD MUNNERLYN, *Associate Professor of Poultry Husbandry.* (1926, 1934)

B.S., Agricultural and Mechanical College of Texas, 1926; M.S., 1930.

ROBERT PAGE WARD, *Associate Professor of Electrical Engineering.* (1925, 1934)

B.S., Agricultural and Mechanical College of Texas, 1924; M.S., 1934.

WAYNE EGGLESTON LONG, *Associate Professor of Mechanical Engineering.* (1930, 1934)

B.S., Agricultural and Mechanical College of Texas, 1927; M.S., 1936.

[1] On leave, 1936-37.

ALBERT B. STEVENS, *Associate Professor of Petroleum Engineering.* (1934)

B.S., California, 1927; M.S., Southern California, 1932.

GEORGE WILHELM SCHLESSELMAN, *Associate Professor of Agricultural Economics.* (1934, 1935)

B.A., Iowa State Teachers College, 1927; M.A., Clark, 1928; Ph.D., Nebraska, 1935.

ERNEST KENNETH SPAHR, *Associate Professor of English.* (1921, 1935)

B.A., Milligan College, 1919; M.A., Virginia, 1921.

WILLARD HOMER MCCORKLE, *Associate Professor of Physics.* (1924, 1935)

B.A., Iowa, 1924; M.S., 1928; Ph.D., 1935.

JOSEPH ANDERSON ORR, *Associate Professor of Civil Engineering.* (1928, 1935)

B.S., Agricultural and Mechanical College of Texas, 1922; M.S., 1933.

FRANCIS FREDERICK BISHOP, *Associate Professor of Industrial Chemistry.* (1923, 1935)

B.S., Clarkson College of Technology, 1922; M.S., 1928.

PARKS ADAIR NUTTER, *Associate Professor of Economics.* (1933, 1935)

A.B., Michigan, 1920; A.M., Iowa, 1930.

HERBERT RAYMOND MCQUILLAN, *Associate Professor of .Physical Education.* (1935)

B.S., North Dakota State College, 1916.

NORMAN GEORGE SCHUESSLER, *Associate Professor of Animal Husbandry.* (1935)

B.S., Agricultural and Mechanical College of Texas, 1931.

JOHN HENRY QUISENBERRY, *Associate Professor of Genetics.* (1936)

B.S., Agricultural and Mechanical College of Texas, 1931; M.S., Illinois, 1933; Ph.D., 1936.

FRED HOBSON ARNOLD, *Acting Associate Professor of Agricultural Economics.* (1936)

B.S., George Peabody College for Teachers, 1925; M.A., 1928; Ph.D., North Carolina, 1936.

Assistant Professors

LOUIS ADOLPH KOENIG, *Assistant Professor of Chemistry.* (1920, 1922)

B.A., Texas, 1917.

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.

ELDER 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.

JOHN GRAHAM POWERS, *Assistant Professor of Textile Engineering.* (1927)

HORACE GREELEY JOHNSTON, *Assistant Professor of Entomology.* (1927)

B.S., Mississippi State College, 1926; M.S., Iowa State College, 1928.

ELMER GILLAM SMITH, *Assistant Professor of Physics.* (1924, 1929)

A.B., Amherst College, 1919; M.S., Agricultural and Mechanical College of Texas, 1925; B.S., 1934.

JOHN PAUL ABBOTT, *Assistant Professor of English.* (1926, 1929)

B.A., Vanderbilt, 1925.

CHARLES LAMOTTE, *Assistant Professor of Biology.* (1930, 1932)

B.A., Texas, 1929; M.A., 1929; Ph.D., Illinois, 1937.

RAYMOND ORR, *Major, Infantry, Assistant Professor of Military Science and Tactics.* (1932)

A.B., Chattanooga, 1916.

MARION THOMAS HARRINGTON, *Assistant Professor of Chemistry.* (1924, 1934)

B.S., Agricultural and Mechanical College of Texas, 1922; M.S., 1927.

JAMES WENDELL ROSS, *Assistant Professor of Mathematics.* (1926, 1934)

B.A., Texas, 1923; M.A., 1931.

JOSEPH BAKER DENT, *Assistant Professor of Engineering Drawing.* (1928, 1934)

B.S., Virginia Polytechnic Institute, 1926; M.S., Agricultural and Mechanical College of Texas, 1931.

HENRY CECIL SPENCER, *Assistant Professor of Engineering Drawing.* (1929, 1934)

A.B., Baylor, 1929; M.S., Agricultural and Mechanical College of Texas, 1931.

WILLARD IRVING TRUETTNER, *Assistant Professor of Mechanical Engineering.* (1930, 1934)

B.S., Michigan, 1928; M.S.E., 1930.

CHARLES MATTOON BROOKS, JR., *Assistant Professor of Architecture.* (1934)

B.F.A., Yale, 1931; M.F.A., 1934.

DAVID TERRILL JOHNSON, *Captain, Corps of Engineers, Assistant Professor of Military Science and Tactics.* (1934)

Graduate, United States Military Academy, 1918.

BENJAMIN PETER HEISER, *Captain, Field Artillery, Assistant Professor of Military Science and Tactics.* (1934)

Graduate, United States Military Academy, 1926.

MARTIN MOSES, *First Lieutenant, Infantry, Assistant Professor of Military Science and Tactics.* (1934)

Graduate, United States Military Academy, 1927.

FRANCIS EARL TURNER, *Assistant Professor of Geology.* (1934, 1935)

B.S., California Institute of Technology, 1927; M.S., 1928; Ph.D., California, 1934.

WILLIAM MCDANIEL POTTS, *Assistant Professor of Chemistry.* (1926, 1935)

S.B., Chicago, 1921; S.M., 1927.

ROY MATTHEW WINGREN, *Assistant Professor of Mechanical Engineering.* (1928, 1935)

B.S., Agricultural and Mechanical College of Texas, 1927; M.S., 1934.

JOHN QUE HAYS, *Assistant Professor of English.* (1929, 1935)

A.B., Missouri, 1929; M.A., 1932.

JAMES ARTHUR TRAIL, *Assistant Professor of Mechanical Engineering.* (1929, 1935)

B.S., Agricultural and Mechanical College of Texas, 1929; M.S.E., Purdue, 1934.

CYRIL SAMUEL ADAMS, *Assistant Professor of Civil Engineering.* (1930, 1935)

B.S., Agricultural and Mechanical College of Texas, 1930; M.S., 1933; C.E., 1935.

LEMIS MCDOWELL HAUPT, JR., *Assistant Professor of Electrical Engineering.* (1930, 1935)

B.S., Agricultural and Mechanical College of Texas, 1927; M.S., 1935.

PAUL JUDSON TALLEY, *Assistant Professor of Biology.* (1934, 1935)

A.B., Baylor, 1928; M.S., Iowa, 1930; Ph.D., Wisconsin, 1932.

PHILLIP HARRISON ENSLOW, *Captain, Field Artillery, Assistant Professor of Military Science and Tactics.* (1935)

Graduate, United States Military Academy, 1923.

JULES VERNE SIKES, *Assistant Professor of Physical Education.* (1935)

B.S., East Texas State Teachers College, 1931.

RALPH WRIGHT STEEN, *Assistant Professor of History.* (1935)

A.B., McMurry College, 1927; M.A., Texas, 1929; Ph.D., 1934.

MAURICE J. SULLIVAN, *Critic in Architectural Design.* (1935)

DONALD CHRISTY, *Assistant Professor of Agricultural Engineering.* (1933, 1936)

B.S., Kansas State College, 1933.

THOMAS D. ROBERTS, *Captain, Cavalry, Assistant Professor of Military Science and Tactics.* (1936)

Graduate, United States Military Academy, 1924.

LLOYD R. GARRISON, *Captain, Field Artillery, Assistant Professor of Military Science and Tactics.* (1936)

B.A., Texas, 1914; M.A., 1915.

RALPH E. HILL, *Major, Coast Artillery Corps, Assistant Professor of Military Science and Tactics.* (1936)

CLARE WILLIAM RINK, *Assistant Professor of Dairy Husbandry.* (1936)

B.S., Pennsylvania State College, 1930; M.S., Oklahoma Agricultural and Mechanical College, 1935.

HAROLD WILSON SAWYER, *Assistant Professor of Veterinary Anatomy.* (1936)

D.V.M., Alabama Polytechnic Institute, 1932.

FRANCIS H. WILSON, *Major, Infantry, Assistant Professor of Military Science and Tactics.* (1936)

B.A., Johns Hopkins, 1917.

RICHARD C. POTTS, *Assistant Professor of Agronomy,* (1935, 1936)

B.S., Oklahoma Agricultural and Mechanical College, 1935.

SEWELL HEPBURN HOPKINS, *Acting Assistant Professor of Biology.* (1935, 1936)

B.S., College of William and Mary, 1927; M.A., Illinois, 1929; Ph.D., 1933.

Instructors

RICHARD WALTER DOWNARD, *Instructor in Mechanical Engineering.* (1913, 1920)

WILLIAM WARREN MCCARTER, *Instructor in Mechanical Engineering.* (1922)

ALBERT ASA BLUMBERG, *Instructor in Mathematics.* (1924)

B.A., Texas, 1929.

ROLAND EDWARD SNUGGS, *Instructor in Chemistry.* (1924)

A.B., Georgetown College, 1920; M.S., Florida, 1923.

ERROL BATHURST MIDDLETON, *Instructor in Chemistry.* (1922, 1926)

B.A., Illinois, 1919; M.S., 1921.

DAVID WINSTON FLEMING, *Instructor in Mechanical Engineering.* (1927)

B.S., Agricultural and Mechanical College of Texas, 1930.

ROGER VALENTINE MCGEE, *Instructor in Mathematics.* (1928)

B.S., Agricultural and Mechanical College of Texas, 1922.

WILLIAM REEDER SHERRILL, *Instructor in Agricultural Education.* (1928)

B.S., Agricultural and Mechanical College of Texas, 1928.

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.

ALBERT EDWARD FINLAY, *Instructor in Mathematics.* (1929)

B.S., Peabody College, 1929; M.A., 1929.

JAMES EDWARD BRELAND, *Instructor in Engineering Drawing.* (1930)

B.S., Mississippi State College, 1928.

HUGH BARBER THAXTON, *Instructor in Veterinary Anatomy.* (1933, 1934)

D.V.M., Agricultural and Mechanical College of Texas, 1934.

WILLIAM OLIVER RAY, *Instructor in Electrical Engineering.* (1933, 1934)

B.S., Agricultural and Mechanical College of Texas, 1930; M.S., 1934.

WILLIAM MAURICE SIMPSON, *Instructor in Accounting and Statistics.* (1933, 1935)

B.S., Agricultural and Mechanical College of Texas, 1933.

JOHN GILBERT MCGUIRE, *Instructor in Engineering Drawing.* (1933, 1935)

B.S., Agricultural and Mechanical College of Texas, 1932; M.S., 1937.

GILBERT JUSTUS SAMUELSON, *Instructor in Chemistry.* (1935)

B.S., Chadron State Normal College, 1929; M.S., Nebraska, 1932; Ph.D., 1934.

DANIEL ROWLAND DAVIS, *Instructor in Rural Sociology.* (1933, 1935)

B.S., Agricultural and Mechanical College of Texas, 1932; M.S., 1935.

CHARLES WELDON STONE, *Instructor in English.* (1927, 1935)
A.B., Baylor, 1926; M.A., Southern Methodist, 1927.

WILLIAM HUETER BETTGER, *Instructor in Modern Languages.* (1935)
A.B., Colorado, 1934; A.M., 1935.

LILBURN JOHN DIMMITT, *Instructor in Physical Education.* (1935)

KARL ERIK ELMQUIST, *Instructor in English.* (1935)
B.A., Southern Methodist, 1932.

WILLIAM DONALD HARRIS, *Instructor in Chemistry.* (1935)
B.S., Iowa State College, 1929; M.S., 1931; Ph.D., 1934.

JOHN SAMUEL HOPPER, *Instructor in Mechanical Engineering.* (1933, 1935)
B.S., Texas Technological College, 1933; M.S., Agricultural and Mechanical College of Texas, 1936.

EDMUND CHESTER KLIPPLE, *Instructor in Mathematics.* (1935)
B.A., Texas, 1926; Ph.D., 1932.

ROBERT P. LUDLUM, *Instructor in History.* (1935)
A.B., Cornell, 1930; M.A., 1932; Ph.D., 1935.

GEORGE KERN SCHOEPFLE, *Instructor in Physics.* (1935)
A.B., Oberlin College, 1927; Ph.D., Cornell, 1933.

MILLARD SEALS TAGGART, *Instructor in Chemistry.* (1935)
B.A., Rice, 1931; M.A., 1932; Ph.D., 1935.

CLYDE WINFIELD WILKINSON, *Instructor in English.* (1935)
B.S., Texas, 1932; M.A., 1934.

SAMUEL BERNHARD ZISMAN, *Instructor in Architecture.* (1935)
B.S., Massachusetts Institute of Technology, 1930.

SPENCER BUTLER APPLE, JR., *Instructor in Agronomy.* (1933, 1935)
B.S., Agricultural and Mechanical College of Texas, 1933; M.S., 1936.

ROLLIN LAFAYETTE ELKINS, *Instructor in Economics.* (1933, 1935)
B.A., Agricultural and Mechanical College of Texas, 1933; M.S., 1935.

[3]WILBUR MORTRUDE JACKSON, *Instructor in Mathematics.* (1933, 1935)
B.S., Agricultural and Mechanical College of Texas, 1933; M.S., 1935.

JOHN EDGAR OLIVER, *Instructor in Accounting and Statistics.* (1935, 1936)
B.B.A., Texas, 1929.

FRANK IVER DAHLBERG, *Instructor in Animal Husbandry.* (1936)
B.S., Agricultural and Mechanical College of Texas, 1925; M.S., Wisconsin, 1930.

LESTER HANKS, *Instructor in Agricultural Economics.* (1936)
B.S., Agricultural and Mechanical College of Texas, 1930; M.B.A., Texas, 1936.

JOHN HENRY MILLIFF, *Instructor in Veterinary Pathology.* (1931, 1936)
B.S., Agricultural and Mechanical College of Texas, 1931; M.S., 1934; D.V.M., 1936.

CHARLES LEE FOOTE, *Instructor in Biology.* (1934, 1936)
B.S., North Texas State Teachers College, 1934; M.S., Agricultural and Mechanical College of Texas, 1936.

JOHN PERCY OLIVER, *Instructor in Engineering Drawing.* (1935, 1936)
B.S., Agricultural and Mechanical College of Texas, 1926; M.S., 1936.

GEORGE TYSON EDDS, *Instructor in Veterinary Physiology and Pharmacology.* (1936)
B.S., Agricultural and Mechanical College of Texas, 1936; D.V.M., 1936.

EARL RICHARD MERTZ, *Instructor in Mechanical Engineering.* (1936)
B.S., Missouri School of Mines, 1933.

SIDNEY OVERTON BROWN, *Instructor in Biology.* (1936)
B.A., Texas, 1932; Ph.D., 1936.

TITUS CARR EVANS, *Instructor in Biology.* (1936)
B.A., Baylor, 1929; M.S., Iowa, 1931; Ph.D., 1934.

SAMUEL S. GOLDICH, *Instructor in Geology.* (1936)
B.A., Minnesota, 1929; M.A., Syracuse, 1930; Ph.D., Minnesota, 1936.

ALEXANDER HIRSCH SAKOWITZ, *Instructor in English.* (1936)
B.S., Pennsylvania, 1931; B. A., Cambridge, 1934.

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[3] On leave, 1936-37.

EARL B. SMITH, *Instructor in Agricultural Economics.* (1936)
A.B., Central College, 1931; M.S., Wisconsin, 1935.
DORRIS DAVID GILES, *Instructor in Animal Husbandry.* (1936)
D.V.M., Agricultural and Mechanical College of Texas, 1922; M.S., 1929.
ROBERT O. LOVING, *Instructor in Engineering Drawing.* (1936)
B.S., Agricultural and Mechanical College of Texas, 1936.
GLADSTONE WADLEY MCDOWELL, *Instructor in Mathematics,* (1936)
B.S., Duke, 1928; A.M., 1931.
CHARLES ERNEST MURPHEY, *Instructor in Animal Husbandry.* (1936)
B.S., Kansas State College, 1935; M.A., Missouri, 1936.
RICHARD ARTHUR EADS, *Instructor in Chemistry.* (1927, 1936)
B.S., East Texas Normal College, 1917; B.S., East Texas State Teachers College, 1923; M.S., Agricultural and Mechanical College of Texas, 1929.
ALFRED FRANKLIN CHALK, *Instructor in Economics.* (1934, 1936)
B.A., Baylor, 1934; M.S., Agricultural and Mechanical College of Texas, 1936.
CHARLES SUMMER BACON, JR., *Instructor in Geology.* (1936)
B.S., Chicago, 1922; M.S., 1923; Ph.D., Vienna, 1926.
RUPERT ESMOND CLARK, *Instructor in English.* (1936)
B.A., Texas, 1934; M.A., 1936.
ERNEST DUVAL HEDGCOCK, *Instructor in English.* (1936)
B.A., Tennessee, 1917; M.A., Texas, 1936.
JOHN TOM HURT, *Instructor in Mathematics.* (1936)
A.B., Rice, 1931; M.S., 1932; Ph.D., 1935.
JACK THURSTON KENT, *Instructor in Mathematics.* (1936)
A.B., Lambuth College, 1930; M.A., Arkansas, 1931.
WILLIAM CLEMMER MITCHELL, *Instructor in Mathematics.* (1936)
A.B., Cincinnati, 1928; M.A., 1932.
JOEL NATHANIEL MOSELEY, *Instructor in Agricultural Economics.* (1936)
B.A., Texas, 1916; M.A., 1926; Ph.D., 1930.
ROBERT FRANKLIN PARKER, *Instructor in Mechanical Engineering.* (1936)
B.S., Rice, 1934.
LOUIS MILTON THOMPSON, *Instructor in Agronomy.* (1936)
B.S., Agricultural and Mechanical College of Texas, 1935.
LYLE K. TANZER, *Instructor in Chemistry.* (1936)
B.A., Iowa, 1932; M.S., 1934; Ph.D., 1936.
CHARLES LEONARD COLEMAN, *Instructor in Veterinary Medicine and Surgery.* (1936)
D.V.M., Agricultural and Mechanical College of Texas, 1936.
[4]MELVIN LOUIS UPCHURCH, *Instructor in Agricultural Economics.* (1936, 1937)
B.S., Agricultural and Mechanical College of Texas, 1936; M.S., 1937.

Graduate Assistants and Fellows

LEONARD QUENTIN ALLEN, *Assistant in Rural Sociology.*
B. S., East Texas State Teachers College, 1926.
OLLIE TINSLEY BARKER, *Assistant in Industrial Education.*
B. S., East Texas State Teachers College, 1930.
STEWART BEVAN, *Assistant in Geology.*
B. S., College of Mines and Metallurgy, 1933.
CHARLES AUGUSTUS CARTER, JR., *Assistant in Accounting and Statistics.*
B. S., Stephen F. Austin State Teachers College, 1936.
PRESTON EARL CHANEY, *Assistant in Chemistry.*
B. S., Agricultural and Mechanical College of Texas, 1936.
TANDY PREWITT CHENAULT, *Assistant in Biology.*
B. S., Morehead State Teachers College, 1936.

[4] Graduate Assistant, First Semester, 1936-37.

OCIE COSTON, *Assistant in Accounting and Statistics.*
B. S., East Texas State Teachers College, 1932.
WALTER JACK CRAWFORD, *Assistant in Accounting and Statistics.*
B. S., Stephen F. Austin State Teachers College, 1935.
BARON RICHARD DANA, *Assistant in Animal Husbandry.*
B. S., Iowa State College, 1935.
MALCOLM STEWART DOUGHERTY, JR., *Assistant in Dairy Husbandry.*
B. S., Louisiana State, 1935.
FRANK AUGUSTUS DRISKILL, *Assistant in Economics.*
B. S., Southwestern, 1932.
[5]MORRIS ALLEN ELMS, *Assistant in Geology.*
B. A., Baylor, 1935.
WOODROW WHEELER GANDY, *Assistant in Mathematics.*
B. S., Agricultural and Mechanical College of Texas, 1936.
JOHN MILTON GOODWIN, *Assistant in Electrical Engineering.*
B. S., Agricultural and Mechanical College of Texas, 1933.
WILLIAM RAYMOND GRIFFIN, *Assistant in Mathematics.*
B. A., Baylor, 1936.
LANOY NELSON HAZEL, *Assistant in Genetics.*
B. S., Texas Technological College, 1933.
THOMAS ALDON HIETT, *Assistant in Chemistry.*
B. S., North Texas State Teachers College, 1933.
[6]BRYANT RICHARD HOLLAND, *Fellow in Chemistry.*
B. A., North Texas State Teachers College, 1936.
WILLIAM WORTH HOLMES, *Assistant in Engineering Drawing.*
B. S., Agricultural and Mechanical College of Texas, 1934.
WILLET KUHN, *Assistant in Mechanical Engineering.*
B. S., Texas Technological College, 1934.
LEONARD AVERA LANKFORD, *Assistant in Municipal and Sanitary Engineering.*
B. S., Southern Methodist, 1934.
ADDISON EARL LEE, *Assistant in Biology.*
B. S., Stephen F. Austin State Teachers College, 1934.
P. CRAIG LIVESAY, *Assistant in Mechanical Engineering.*
B. S., Iowa State College, 1934.
JAMES WILDON LONGLEY, *Assistant in Library.*
B. A., Agricultural and Mechanical College of Texas, 1936.
JESSE WAYNE MANLEY, *Assistant in Accounting and Statistics.*
B. S., Agricultural and Mechanical College of Texas, 1934.
CLARENCE EDWARD MANLY, JR., *Assistant in Agricultural Economics.*
B. S., Agricultural and Mechanical College of Texas, 1936.
WALTER CHARLES MATTHYS, *Assistant in Education.*
B. B. A., Baylor, 1935.
HOMER NICHOLAS MORROW, JR., *Assistant in Chemistry.*
B. S., Agricultural and Mechanical College of Texas, 1934.
MAX ABE MOSESMAN, *Assistant in Chemistry.*
B. S., Agricultural and Mechanical College of Texas, 1936.
ROBERT HENRY NAU, *Assistant in Electrical Engineering.*
B. S., Iowa State College, 1935.
JOHN CHARLES HINTCHEY NELSON, *Assistant in Civil Engineering.*
B. S., Agricultural and Mechanical College of Texas, 1935.
LEIMO PARHIALA, *Assistant in Geology.*
B. S., Syracuse, 1937.
OSCAR MYLES PHILLIPS, *Fellow in Office of Dean of Agriculture.*
B. S., East Texas State Teachers College, 1935.

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[5] Resigned, January 31, 1937.
[6] Fellowship provided by Texas Cotton Seed Crushers Association.

[7]WILLIAM EARL RAGSDALE, *Fellow in Chemistry.*
B. A., Hardin-Simmons, 1935.
EARLE KENSINGTON RAMBO, *Assistant in Agricultural Engineering.*
B. S., Clemson College, 1926.
CLYDE LEE ROUGEAU, *Assistant in the College Library.*
B. S., Southwestern Louisiana Institute, 1936.
CURTIS RUDOLPH SCHARNBERG, *Assistant in Dairy Husbandry.*
B. S., Texas Technological College, 1936.
HENRY BERNARD SCHOCH, *Assistant in Chemistry.*
B. S., Butler, 1936.
EDWARD SELLNER, *Assistant in Mechanical Engineering.*
B. S., Case School of Applied Science, 1935.
IVAN MAURICE SHANNON, *Fellow in Office of Dean of the College.*
B. A., Agricultural and Mechanical College of Texas, 1933.
RALPH HAROLD SHARPE, *Assistant in Horticulture.*
B. S., Pennsylvania State College, 1934.
WILLIAM MCCRAY SIMPSON, *Assistant in Mechanical Engineering.*
B. S., Oklahoma, 1936.
ELLIS MARCUS SIMS, *Assistant in Mechanical Engineering.*
B. S., Agricultural and Mechanical College of Texas, 1936.
MANNING FARR SMITH, *Fellow in Physical Education.*
B. S., Centenary College, 1934.
MORRELL BISHOP SMITH, *Assistant in Animal Husbandry.*
B. S., Agricultural and Mechanical College of Texas, 1935.
RUSSELL WILLIAM STRANDTMANN, *Assistant in Biology.*
B. S., Southwest Texas State Teachers College, 1935.
LEE PRICE THOMPSON, *Assistant in Mechanical Engineering.*
MILLARD T. TURNER, *Assistant in Agronomy.*
B. S., North Texas State Teachers College, 1934.
WILLIAM CAMPBELL VERTREES, *Assistant in Horticulture.*
B. S., Agricultural and Mechanical College of Texas, 1931; M. S., 1936.
JOHN REINHOLD WENMOHS, *Fellow in the Library.*
B. S., Agricultural and Mechanical College of Texas, 1932.
WILLIAM HENRY WILEY, *Assistant in Poultry Husbandry.*
B. S., Agricultural and Mechanical College of Texas, 1936.
FLOYD MACK WILKES, *Assistant in Animal Husbandry.*
B. S., Texas Technological College, 1935.
[8]CHARLIE SMITH WILKINS, *Assistant in Agricultural Economics.*
B. A., North Texas State Teachers College, 1925; M. S., Texas, 1929.
KENNETH GILMER WILLIAMS, *Assistant in Physics.*
B. A., Austin College, 1936.
FRED DODGE ZALMANZIG, *Fellow in Registrar's Office.*
B. S., St. Mary's, 1934.

SUMMARY OF THE TEACHING STAFF AS OF APRIL 1, 1937

Heads of Departments and Other Members of the General Faculty	46
Other Full Professors	43
Associate Professors	35
Assistant Professors	42
Instructors	64
Teaching Assistants and Fellows	44
[9]TOTAL	274

[7] Fellowship provided by the West Texas Cotton Oil Company.
[8] Resigned, January 30, 1937.
[9] Including 2 on leave, Session 1936-37.

THE AGRICULTURAL EXPERIMENT STATION

STAFF (As of January 1, 1937)

Administration:

A. B. CONNER, M.S., *Director*
R. E. KARPER, M.S., *Vice-Director.*
P. C. MANGELSDORF, Sc.D., *Assistant Director.*
CLARICE MIXSON, B.A., *Secretary.*
M. P. HOLLEMAN, *Chief Clerk.*
REED MCDONALD, *Assistant Chief Clerk.*
CHESTER HIGGS, *Executive Assistant.*
HOWARD BERRY, B.S., *Technical Assistant.*

Chemistry:

G. S. FRAPS, Ph.D., *Chief; State Chemist.*
S. E. ASBURY, M.S., *Assistant State Chemist.*
J. FRAKLIN FUDGE, Ph.D., *Chemist.*
E. C. CARLYLE, M.S., *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.*
A. R. KEMMERER, Ph.D., *Assistant Chemist.*
P. F. MACY, Ph.D., *Assistant Chemist.*
JOSEPH SEMB, Ph.D., *Assistant Chemist.*
W. W. MEINKE, B.S., *Assistant Chemist.*
G. S. SHEPARD, B.S., *Assistant Chemist.*

Horticulture:

S. H. YARNELL, Sc.D., *Chief.*
W. S. FLORAY, JR., Ph.D., *Horticulturist.*
[10]L. R. HAWTHORN, M.S., *Horticulturist.*
H. M. REED, M.S., *Horticulturist.*
J. F. WOOD, B.S., *Horticulturist.*
L. E. BROOKS, B.S., *Horticulturist.*
J. C. RATSEK, Ph.D., *Horticulturist.*

Range Animal Industry:

J. M. JONES, A.M., *Chief; Sheep and Goat Investigations.*
B. L. WARWICK, Ph.D., *Animal Husbandman; Breeding Investigations.*
J. H. JONES, B.S., *Animal Husbandman.*
S. P. DAVIS, *Wool and Mohair Investigations.*

[10] In co-operation with U. S. Department of Agriculture.

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.*
S. W. CLARK, B.S., *Entomologist.*
[11]R. W. MORELAND, B.S., *Assistant Entomologist.*
M. J. JANES, M.S., *Entomologist.*
CECIL E. HEARD, B.S., *Chief Foulbrood Inspector.*
C. J. BURGIN, B.S., *Foulbrood Inspector.*

Agronomy:

E. B. REYNOLDS, Ph.D., *Chief.*
R. E. KARPER, M.S., *Agronomist; Grain Sorghum Research.*
P. C. MANGELSDORF, Sc.D., *Agronomist; Corn and Small Grain Inv.*
D. T. KILLOUGH, M.S., *Agronomist; Cotton Breeding.*
H. E. REA, B.S., *Agronomist; Cotton Root Rot Investigations.*
R. L. HENSEL, M.S., *Agronomist, Pasture Investigations.*
[11]T. R. RICHMOND, M.S., *Assistant Agronomist.*
[11]E. S. MCFADDEN, B.S., *Associate Agronomist.*
B. C. LANGLEY, M.S., *Agronomist.*
E. K. CROUCH, B.S., *Assistant Agronomist.*

Publications:

A. D. JACKSON, *Chief.*

Veterinary Science:

H. SCHMIDT, D.V.M., *Chief.*
I. B. BOUGHTON, D.V.M., *Veterinarian.*
W. T. HARDY, D.V.M., *Veterinarian.*
[11]F. P. MATTHEWS, M.S., D.V.M., *Veterinarian.*
T. W. WORKMAN, D.V.M., Ph.D., *Veterinarian.*
R. D. TURK, D.V.M., *Veterinarian.*
P. L. PIERCY, D.V.M., *Veterinarian.*

Plant Pathology and Physiology:

J. J. TAUBENHAUS, Ph.D., *Chief.*
W. N. EZEKIEL, Ph.D., *Plant Pathologist.*
C. H. ROGERS, Ph.D., *Plant Pathologist.*
G. M. WATKINS, Ph.D., *Plant Pathologist.*
P. A. YOUNG, Ph.D., *Plant Pathologist.*

[11] In co-operation with U. S. Department of Agriculture.

[12]G. A. GREATHOUSE, Ph.D., *Associate Plant Physiologist.*
[12]L. M. BLANK, Ph.D., *Associate Plant Pathologist.*
G. H. GODFREY, Ph.D., *Plant Pathologist.*
G. E. ALTSTATT, M.S., *Plant Pathologist.*
G. T. BOYD, B.S., *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.*
C. H. HAMILTON, Ph.D., *Economist; Rural Life.*
A. C. MAGEE, M.S., *Farm Management.*
P. H. CZAROWITZ, A.B., *Ranch Management.*

Rural Home Research:

JESSIE WHITACRE, Ph.D., *Chief.*
MARY ANNA GRIMES, M.S., *Textile and Clothing Specialist.*
SYLVIA COVER, Ph.D., *Food Specialist.*

Soil Survey:

[12]W. T. CARTER, B.S., *Chief.*
[12]E. H. TEMPLIN, B.S., *Soil Surveyor.*
J. W. HUCKABEE, B.S., *Soil Surveyor.*
I. C. MOWERY, B.S., *Soil Surveyor.*

Botany:

V. L. CORY, M.S., *Acting Chief.*

Swine Husbandry:

FRED HALE, M.S., *Chief.*

Dairy Husbandry:

O. C. COPELAND, M.S., *Dairy Husbandman.*
F. E. HANSON, M.S., *Associate in Dairy Manufacture.*

Poultry Husbandry:

R. M. SHERWOOD, M.S., *Chief.*
J. R. COUCH, B.S., *Associate Poultry Husbandman.*
L. E. JAMES, B.S., *Assistant Poultry Husbandman.*

Agricultural Engineering:

H. P. SMITH, M.S., *Chief.*

[12] In co-operation with U. S. Department of Agriculture.

[13]Wild Life Research:

[13]W. P. TAYLOR, Ph.D., *Chief.*
[13]VALGENE LEHMANN, B.S., *Field Biologist.*
[13]DANIEL W. LAW, B.S., *Field Biologist.*
[13]H. R. SIEGLER, M.S., *Field Biologist.*

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.*
H. G. WICKES, D.V.M., *Feed Inspector.*
S. D. REYNOLDS, JR., *Feed Inspector.*
P. H. MOORE, *Feed Inspector.*
E. J. WILSON, B.S., *Feed Inspector.*
J. K. FRANCKLOW, *Feed Inspector.*

Members of the Teaching Staff Carrying Co-operative Projects on the Station

G. W. ADRIANCE, Ph.D., *Professor of Horticulture.*
S. W. BILSING, Ph.D., *Professor of Entomology.*
A. L. DARNELL, M.A., *Professor of Dairy Husbandry.*
R. G. REEVES, Ph.D., *Professor of Biology.*
A. K. MACKEY, M.S., *Professor of Animal Husbandry.*
F. R. BRISON, M.S., *Associate Professor of Horticulture.*
J. S. MOGFORD, M.S., *Associate Professor of Agronomy.*
C. N. SHEPARDSON, M.S., *Professor of Dairy Husbandry.*

THE ENGINEERING EXPERIMENT STATION

F. C. BOLTON, M.S., LL.D., *Dean, School of Engineering.*
F. E. GIESECKE, M.E., Ph.D., *Director.*
P. J. A. ZELLER, B.S., *Research Associate.*
W. H. BADGETT, M.S., *Research Assistant.*

[13] In co-operation with Bureau Biol. Survey, U. S. D. A.; Texas Game Fish and Oyster Commission; School of Agriculture, and School of Arts and Sciences, A. and M. College of Texas.

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.*
H. VANCE, B.S., *Professor of Petroleum Engineering.*
ERNEST LANGFORD, M.S., *Professor of Architecture.*
C. L. BAKER, M.A., *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, 1937)

Administration:

H. H. WILLIAMSON, *Director.*
JACK SHELTON, *Vice-Director and State Agent.*
GEORGE E. ADAMS, *Assistant State Agent.*
MILDRED HORTON, *Vice-Director and State Home Demonstration Agent.*
BESS EDWARDS, *Assistant State Home Demonstration Agent.*
MRS. MINNIE FISHER CUNNINGHAM, *Extension Editor.*
L. J. FRANKE, *Assistant Extension Editor.*
D. L. WEDDINGTON, *Executive Assistant.*
ROLAND C. NUNN, *Bookkeeper.*
MRS. LILLA GRAHAM BRYAN, *Librarian.*

Farm Demonstration Work:

GEORGE W. BARNES, *Animal Husbandman.*
M. R. BENTLEY, *Agricultural Engineer.*
C. E. BOWLES, *District Agent.*
R. H. BUSH, *Agricultural Economist in Organization.*
R. E. CALLENDER, *Game Management Specialist.*
J. W. CHAPMAN, *Secretary State Conservation Board.*
GEO. P. MCCARTHY, *Assistant Poultry Husbandman.*
JOHN R. EDMONDS, *Special Agent.*
E. R. EUDALY, *Dairy Husbandman.*
G. G. GIBSON, *Assistant Dairyman.*
W. I. GLASS, *District Agent.*
PARKER D. HANNA, *District Agent.*
E. N. HOLMGREEN, *Poultry Husbandman.*
GEORGE W. JOHNSON, *District Agent.*
L. L. JOHNSON, *State Boys' Club Agent.*
R. R. LANCASTER, *Pasture Specialist.*

S. A. McMillan, *Agricultural Economist in Farm Management.*
E. C. Martin, *District Agent.*
E. A. Miller, *Agronomist.*
R. S. Miller, *District Agent.*
W. E. Morgan, *Economist in Agricultural Planning.*
Lucien M. Morgan, *Assistant in Program Planning.*
W. R. Nisbet, *Animal Husbandman.*
G. W. Orms, *District Agent.*
M. T. Payne, *District Agent.*
R. W. Persons, *District Agent.*
E. M. Regenbrecht, *Swine Husbandman.*
R. R. Reppert, *Entomologist.*
J. F. Rosborough, *Horticulturist.*
Chas. W. Simmons, *Forester.*
A. L. Smith, *Animal Husbandman.*
Roy W. Snyder, *Supervisor-Specialists' Work.*
J. L. Thomas, *Dairyman.*
M. K. Thornton, Jr., *Leather Specialist.*
O. G. Tumlinson, *District Agent.*
B. F. Vance, *District Agent.*
T. B. Wood, *District Agent.*

Home Demonstration Work:

Mrs. Dora R. Barnes, *Specialist in Clothing.*
Mrs. Maggie W. Barry, *Sociologist, Rural Women's Organization.*
Lola Blair, *Nutritionist.*
Jennie Camp, *District Agent.*
Bennie Campbell, *District Agent.*
Mrs. Isla Mae Chapman, *Home Industries Specialist.*
Mrs. Bernice Claytor, *Specialist in Home Improvement.*
Lida Cooper, *District Agent.*
Lula M. Dilworth, *Assistant Nutritionist.*
Minnie Mae Grubbs, *District Agent.*
Dosca Hale, *Specialist in Parent Education and Child Development.*
Sadie Hatfield, *Specialist in Landscape Gardening.*
Maurine Hearn, *District Agent.*
Kate Adele Hill, *District Agent.*
Onah Jacks, *State Girl's Club Agent.*
Zetha McInnis, *District Agent.*
Ruby Mashburn, *District Agent.*
Myrtle Murry, *District Agent.*
Grace I. Neely, *Assistant Nutritionist.*
Bessie Lee Sikes, *District Agent.*
Mae Bell Smith, *District Agent.*
Helen H. Swift, *District Agent.*

Negro Extension Work:

C. H. WALLER, *State Leader, Prairie View.*
H. S. ESTELL, *District Agent, Prairie View.*
J. H. WILLIAMS, *Assistant District Agent, Prairie View.*
MRS. IOLA W. ROWAN, *District Agent, Prairie View.*
MRS. JEFFIE ALLEN CONNER, *Assistant District Agent, Prairie View.*

TEXAS FOREST SERVICE

Administration:

E. O. SIECKE, B.A., B.S.F., *Director.*
B. KOONTZ, B.S.F., *Assistant Forester.*
S. L. FROST, M.F., *Assistant Forester.*
WM. A. NORMAN, *Chief Clerk.*

Forest Protection:

W. E. WHITE, B.S., *Lufkin, Chief.*
J. O. BURNSIDE, B.S.F., *Lufkin, Assistant Chief.*
DAVID A. ANDERSON, B.S., *Lufkin, Assistant Forester.*
M. E. BRASHEARS, B.S.F., *Rusk, District Forester.*
C. H. HEBERT, B.S.F., *Marshall, District Forester.*
H. E. MINOR, JR., *Lufkin, Draftsman.*
B. D. HAWKINS, *Woodville, Inspector.*
W. O. DURHAM, *Lufkin, Inspector.*
J. M. TURNER, *Kirbyville, Inspector.*
E. B. LONG, *Conroe, Educational Assistant.*
J. R. THIGPEN, *Huntsville, Educational Assistant.*
M. S. LAWRENCE, *Hortense, Maintenance Engineer.*
T. J. O'QUINN, *Pollok, Law Enforcement Agent.*

Forest Management:

I. H. JONES, B.S., *Chief.*

State Forests and Nurseries:

R. F. BALTHIS, B.S.F., M.S., *Kirbyville, Regional Forester.*
V. V. BEAN, *Kirbyville, Foreman.*
H. A. BUDDE, *Conroe, Foreman.*
U. A. RANDOLPH, *Lubbock, Assistant Forester.*

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. J. BURGIN, *Foulbrood Inspector.*

Forestry Law:

Administered by the Director of the Texas Forest Service.

Pure Feed 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 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

The Agricultural and Mechanical College of Texas, like the land grant institutions in other states of the Union, owes its origin to the Morrill Act which was approved by Congress, July 2, 1862. This act provided for the donation of a specified amount of public lands to the several states and territories. Proceeds from the sale of these lands were to constitute a perpetual fund, the principal of which should remain forever undiminished. The interest from this fund must be used for the support of at least one technological college whose objective must be, without excluding other scientific and classical studies and including military tactics, to teach branches of learning pertaining to agriculture and mechanic arts in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life. The Legislature of Texas accepted the provisions of the congressional legislation in 1866, and $174,000 was realized from the sale of lands set aside under the act. Before the College opened, this fund had grown to $209,000 through the addition of accrued interest.

In April, 1871, the Legislature provided for the establishment of the Agricultural and Mechanical College. A commission created for the purpose of locating the College accepted the offer made by the citizens of Brazos County and located the institution on a tract of 2416 acres of land in that county. The purchase from time to time of additional land adjacent to the original tract has increased the land owned by the College in Brazos County to approximately 4000 acres.

The College was formally opened and instruction begun on October 4, 1876. Its educational activities have been enlarged through the last half

century when the need for such expansion became evident. At the present time, undergraduate instruction is offered in practically every field of engineering and agriculture.

The value of the physical plant has grown to approximately $11,000,000 and a good foundation has been laid at the College for instruction, for investigation, and for extension by means of financial aid secured from both the Congress and the State Legislature. The most extensive program of expansion of College facilities in the history of the institution was completed during the year 1934. This program included, at a cost of nearly two million dollars, the erection of eight new buildings and the improvement of many existing structures on the campus.

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 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 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 Education, Agricultural Engineering, Agronomy, Animal Husbandry, Dairy Husbandry, Entomology, Genetics, Horticulture, Landscape Art, Poultry Husbandry, Rural Sociology.

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

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

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

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 of 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.)
Bachelor of Architecture (B.Arch.)
Bachelor of Petroleum Engineering (B.P.E.)
Doctor of Veterinary Medicine (D.V.M.)
Master of Science (M.S.)
Doctor of Philosophy (Ph.D.)

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.)
Architectural Engineer (Arch.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.

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 reexamination 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 semester, students who have no grade below C, who have completed during the semester at least 16 semester hours, and who have a grade point average of not less than 2.25 grade points per credit hour for the semester, shall be 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 Report: A preliminary report of the student's progress is sent out soon after 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.

THE CUSHING MEMORIAL LIBRARY

The Library, erected in 1930 at a cost of $250,000, contains approximately 45,000 volumes exclusive of the files of the Federal and State agricultural 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 four hundred standard magazines, reviews, and technical journals are received besides the leading newspapers of the State and of the nation. Files are kept of the most important of these periodicals.

The Library is a United States designated depository and receives copies of the majority of all Federal publications. All publications of the State Experiment Stations and Agricultural Colleges are received also. A card index is maintained of all publications of the United States Department of Agriculture.

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 ten 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 monthly an *Extension Service Farm News, Press Letters* of demonstration results, 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 Longhorn*—The College Annual, sponsored by the Senior Class and published by the student body.

3. *The Texas A & M. Scientific Review*—a bi-monthly magazine, published by the students of the School of Agriculture and the School of Engineering.

COLLEGE ASSEMBLIES

Twice a month there is held a general college assembly of students and faculty at which addresses are made by outstanding leaders in various fields.

RELIGIOUS ACTIVITIES

Religious Services: Religious services are held each Sunday morning and evening by the student pastors assigned by their respective denominations to work with students of the College. These include Sunday School, young people's organizations and sermons and afford additional help in the way of ethical training. Every effort is made through lectures, conferences and personal examples 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 Presbyterian Church, U. S., The Methodist Episcopal Church, South, and The Church of Christ, upon approval of their respective boards, have been authorized to offer courses in religious education open to students of Junior and Senior Standing.

The courses offered according to this plan are as follows:

Rel. 301. The Life of Christ. (3-0). Credit 3.
Rel. 302. The Establishment of the Early Church. (3-0). Credit 3.
Rel. 305. Old Testament Character Studies. (1-0) Credit 1.
Rel. 306. New Testament Character Studies. (1-0). Credit 1.
Rel. 307. The Historical Books of the Old Testament. (3-0). Credit 3.
Rel. 308. Prophesy in the Old Testament. (3-0). Credit 3.

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 National Defense Act, as amended, provides for the establishment at civil educational institutions of units of the Reserve Officers' Training Corps (R. O. T. C.).

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 for appointment as reserve officers in the Army of the United States.

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 should the Nation call upon him to act as a leader in its defensive forces.

Military Organization.—The Cadet Corps includes units of Infantry, Cavalry, Field Artillery, Coast Artillery (Anti-aircraft), Engineer Corps, Signal Corps and Chemical Warfare Service. The instruction is divided into the basic course, two years, corresponding to the freshman and sophomore years, and the advanced course, two years, corresponding to the junior and senior years, plus a training camp of from four to six weeks duration. 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) Completion of the basic course in a senior unit elsewhere.

(b) 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 will be furnished the major part of the uniform by the Government.

Advanced Course.—To enroll in the advanced course, a student must be selected by the President of the College and the Professor of Military Science and Tactics from among those students who have satisfactorily completed the basic course.

The student in the advanced course receives the following benefits:

(a) Commutation of uniform totalling $36.00 for the two years.

(b) Commutation of subsistence at 25 cents per day from the beginning of his junior year to the end of his senior year, except during the camp period when he is given rations in kind. This commutation will not be paid for more than two years.

(c) While at camp he will receive 70 cents per day. He will also receive transportation to and from camp.

(d) Upon graduation he may be recommended for appointment as an officer in the Reserve Corps of the U. S. Army.

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 enroll in 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 enrolled in Architecture, Agricultural Engineering, Chemical Engineering, (except those electing Chemical Warfare Service), Civil Engineering, Electrical Engineering, (except those electing Signal Corps), Mechanical Engineering and Petroleum Engineering may enroll in the Engineer Corps Unit.

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. *Chemical Warfare Service.*—Only students taking a four year course in Chemical Engineering and Science students majoring in Chemistry are eligible. Such students are urged to enroll in the Chemical Warfare Service Unit, as certain subjects peculiar to this military science course will be of material assistance to them.

4. *Other Branches.*—(a) Students who fall into one of the above classes but do not elect the Signal Corps, the Engineer Corps, or the Chemical Warfare Service, and all other students taking military training will be enrolled in the Infantry, Field Artillery, Coast Artillery (Anti-aircraft), or Cavalry Unit.

(b) No student weighing more than 170 pounds will be eligible for enrollment in the Cavalry.

(c) Students who elect to enter the Coast Artillery should have a working knowledge of plane trigonometry by the end of their sophomore year.

The number of students in each of the various units must conform to certain percentages fixed by the War Department after consultation with the College authorities.

New students will be given their preference in the assignment to units in so far as the quotas allotted the different branches will permit, but the various units in each branch must be equalized.

Each new student must, therefore, make a first, second and third choice of branch.

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 125 beds, and is equipped with operating room, X-ray and laboratory facilities. There is a staff of one full time physician, a technician and eight 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 water 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 examin-

ations of both milk and water are made twice monthly in order to control their sanitary quality.

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 basketball court, handball courts, showers, lockers, dressing rooms, class rooms, offices and store rooms, and seats for 3,500 spectators; the new Swimming Pool containing a pool 100 by 60 feet, lockers, showers and seats about 600 spectators; the Auxiliary Gymnasium, with handball courts, a basketball court and large rooms for physical training classes; the baseball grandstand 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.

A nine-hole golf course, adjacent to the College, is available to students.

The College is a member of the Southwest Athletic Conference, and sponsors intercollegiate contests in football, basketball, 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 approximately 150 pieces is the official band of the A. and M. College of Texas. It has its own officers and all members live in one dormitory. It furnishes the music for military reviews, parades, open air concerts, yell practice, and retreat formations. The band also leads the corps of cadets in marching to the mess hall. It plays at all intercollegiate athletic contests held at the College and accompanies the football team on trips to other schools. In the spring, concert tours are made to surrounding cities and colleges. In short, the "Aggie" Band is truly the pulse of the "Spirit of Aggieland." Candidates for the band should, upon arrival on the campus, take all belongings to Bizzell Hall, make themselves acquainted with Senior Cadet Officer and the First Sergeant of the band whereupon they will be given temporary location. As early as possible, make contact with the bandmaster, Richard J. Dunn, 1st Lieut., U. S. Army, Ret. It is advised that those own-

ing musical instruments bring same with them as the college is only partially equipped with instruments. No remuneration is offered for being a member of the band and no credits are given in music. Applications for student labor should be made to Mr. S. G. Bailey, Chairman of the Student Labor Committee.

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 ENTERTAINMENT

The College offers each year a series of musicals, plays, and addresses by the best talent obtainable. This is managed by an organization, consisting of part students and part faculty, called the A. and M. College Entertainment Series. Purchase of season tickets is optional but students are urged to avail themselves of the opportunity of enriching their college career. No profit is made by the organization. Moving pictures are presented at least twice a week by the Y. M. C. A. The College Little Theatre 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 $6,500,000. Equipment and lands of the College represent an additional investment of $3,500,000.

The Administration Building, erected in 1933, contains the administrative offices of the College.

The Academic Building, erected in 1914, provides class rooms, 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 1870, a former President of the Board of Directors.

The Agricultural Building, erected in 1922, provides offices, class rooms and laboratories for several departments in the School of Agriculture.

The Agricultural Engineering Building, erected in 1933, contains offices, class rooms and laboratories for the study of gas engines, tractors and farm machinery.

The Animal Husbandry Pavilion, erected in 1916, contains a large judging arena surrounded by concrete seats seating 1600 spectators; also class rooms and display stalls.

The Animal Industries Building, erected in 1933, provides offices, class rooms, and laboratories for the departments of Animal Husbandry, Genetics and Poultry Husbandry.

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.

Beef Cattle, Hog, and Sheep Barns provide facilities for the handling of the various classes of livestock.

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

The Horse Barn, erected in 1933, provides stalls and equipment for fifty horses.

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

The Chemistry Building, erected in 1929-1933, contains laboratories, class rooms, administrative offices, auditorium and store rooms for the department of Chemistry and Chemical Engineering.

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 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 Petroleum Engineering, Geology, and Engineering Experiment Station Building, erected in 1933, contains offices, class rooms, drafting rooms and laboratories.

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

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

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

The Veterinary Anatomy Building, erected in 1933, contains laboratories for the study of gross anatomy of domestic animals.

The Veterinary Hospital, erected in 1933, contains offices, class rooms, laboratories, wards for small animals, pharmacy, X-ray room, designed and constructed with modern facilities for the study and teaching of diseases of domestic animals.

The Veterinary Stable "A", erected in 1933, has ten stalls, with concrete floor and individual floor drains, particularly designed for housing large animals with infectious diseases. A part of this building is used for a post-mortem laboratory and for the disposal of carcasses.

The Veterinary Stable "D", erected in 1933, contains stalls for housing animals, particularly farm animals used for the study of diseases and for clinic, feed rooms, and equipment rooms.

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

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 stage, dressing rooms, and other accessories.

The Hospital, erected in 1916-1937, provides adequate accomodations 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 con-

tains 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.

The P. L. Downs, Jr. Natatorium, erected in 1933, contains lockers, shower baths, and other facilities for swimming. It is named in honor of P. L. Downs, Jr.

Bernard Sbisa Hall, the College dining hall, erected in 1912, is provided with modern facilities, and has a seating capacity of 2,750. 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.

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.

Ross Hall, erected in 1891, named in honor of L. S. Ross, a former President of the College. Contains 33 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, Dean Emeritus 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 two large laboratories. A departmental reading room contains books, periodicals and reference material dealing with accounting and with statistical subjects. A machine room is equipped with adding and calculating machines for use by advanced students.

AGRICULTURAL ENGINEERING

The Agricultural Engineering department is housed in a new, modern building which was completed in the spring of 1933. It provides the department with special laboratories for farm machinery, farm motors, farm shop, automotive equipment, farm home utilities, terracing, drainage and irrigation, and farm buildings. There are, also, class and lecture rooms, together with a drawing room for the use of the various classes.

The farm machinery laboratory contains modern farm machinery such as plows, harrows, planters, cultivators, harvesters, threshers, seed cleaners and grinders such as are used on Texas farms.

The farm motor laboratory contains a large number of farm gas engines such as are used for stationary work, tractors and automobiles, together with extra equipment for same.

The automotive laboratory contains tractors, automobiles and trucks, many of them being the very latest models.

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 equipped with all tools and equipment necessary for teaching this subject.

The terracing, drainage, and irrigation laboratory contains not only surveying equipment necessary for field work, but also tables containing soils from various sections of the state on which miniature set-ups of terracing and irrigation problems are worked out.

The farm buildings laboratory contains models of the various types of farm buildings, as well as construction details.

AGRONOMY

The department of Agronomy has laboratories and class rooms in the Agricultural Building and the Animal Husbandry Pavilion. There are two laboratories for soils and three laboratories for crops in the Agricultural Building. One large and one small laboratory in the Animal Husbandry Pavilion are used for instruction in cotton and soil conservation. They are large, well lighted, and well equipped for instructional purposes.

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. It also has complete equipment for determining the reaction of the soil in the field including quinhydrone electrode, Wheatstone bridge and soil dispersing apparatus.

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

The main 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, and several complete sets of dockage sieves for determining dockage in the various kinds, classes and grades of grain.

The advanced farm-crops laboratory accomodates students taking advanced work in forage crop and cereal crop production. It contains all the equipment found in a modern Federal Grain Inspection Laboratory.

The department has a modern green-house 67 x 25 feet, equipped for soil fertility and farm crops work. For field study the department has 4½ acres of land devoted to demonstration work in crops and soils. All the important types and varieties of farm crops adapted to this section are grown for field study, and for use in the laboratories.

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 Industries Building and a large judging arena provide housing facilities for instruction and administration of the Animal Husbandry department.

In the Animal Industries Building, laboratories for determining the chemical and energy values of feeds, and small animal laboratories for deficiency and vitamin studies are provided. The building is also equipped with a thoroughly modern laboratory for the study of wool and mohair. Scouring equipment, driers, microscopes, micrometer calipers, and fiber testing machines are all available for class. These laboratories are equipped with temperature and humidity control. A new meats laboratory with killing, cutting, cooking, and refrigeration facilities was completed in 1933.

The department is assigned about 1200 acres of land with barns and equipment for the various classes of livestock. The horse division is equipped

with representatives of the following breeds: Percheron, American Saddle, Standardbred, Morgan, and Thoroughbred. A modern barn housing 50 horses was completed in 1933.

The beef cattle division is equipped with barns, sheds and lands suitable for fitting show animals and 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.

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. 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. A garbage disposal plant is operated in connection with the hog division. Usually about 700 hogs are used for this purpose continuously.

Herds of cattle, horses, sheep and hogs are fitted and exhibited at both fall and spring livestock shows. All 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 Agricultural Experiment Station, and the wool and mohair equipment, including the scouring plant used for shrinkage determinations. Horses provided by the United States Government for the use of the Cavalry and Artillery Units are also available at times for class instruction.

ARCHITECTURE

The department occupies a large drafting room where students of the several classes work together, two small drafting rooms 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 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, refractometers, Lovibond tintometer, and gas burette, 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.

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 rams, 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 60,000 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 roads 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.

For the use of advanced students in structural engineering there is provided a complete photo-elasticity polariscope for the study of internal stresses by the aid of polarized light; also a Beggs deformeter for the study of stresses in models by the measurement of microscopic deformations. For advanced students in highway engineering there is ample equipment such as electric ovens, analytical balances, mechanical mixers for asphaltic paving materials and for concrete, as well as a 300,000 pound universal testing machine.

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 200 animals, including cows, calves, and bulls, of which about half are pure-bred Jerseys, and about half pure-bred Holsteins. The milking herd usually includes about 95 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 buttter, 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 generator, 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 cars with both a hand controlled and a master controller operating an electro-pneumatic 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; twelve alternators ranging from 2½ K. V. A. to 30 K. V. A.; three converters 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 high tension laboratory equipment consists of a 100 K. V. A., 200,000 volts testing transformer with regulators for varying the voltage, 125 cm. spark gap, a crest voltmeter, and other auxiliary devices for use with this transformer. A complete high voltage cathode ray oscillograph. Marx circuit surge generator capable of generating lighting surges up to 300,000 volts.

The electrical measurements laboratory has a full equipment of the apparatus needed for the study of the fundamentals of electrical measurements. The equipment includes the following: various types of Wheatstone bridges; a Kelvin double bridge; a Carry-Foster bridge; magnetometers, dynamometers; portable, semi-portable and wall galvanometers; astatic galvanometers; universal tangent galvanometer; carolimeters; schometer; influence machine; electrostatic apparatus; spark coils; apparatus for testing magnetic qualities of iron and steel; standard resistance; standard cells, physical balances; universal shunts; resistance boxes; variable inductances and capacities; portable storage batteries, and various minor equipment.

The standardzinig 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 and a six element oscilligraph, both equipped with photographic attachments, 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 har-

monics, so arranged that any desired phase relation may be obtained between each of the harmones 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 and light meters, 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 addition of a variable oscillator, a 250-mile artificial transmission line and an assortment of delicate measuring instruments, the gft of the Bell Telephone System. The laboratories contain a complete assortment of radio telephone and telegraph equipment including amplifiers, loud speakers, 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. One complete low voltage cathode ray oscillograph for use in measurements of radio and audio frequency circuits.

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 necessary reading and reference work. The Electrical Engineering Department sponsors a student branch of the American Institute of Electrical Engineers and the Amateur Radio Club on the campus which operates a 40 meter and a 10 meter radiophone.

ENGINEERING DRAWING

This department is located on the third floor of the Civil Engineering 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 convenience and use of the students.

ENTOMOLOGY

The class rooms and laboratories of the department of entomology are located in the Science Hall. The department is equipped with charts for demonstrating the anatomy and life histories of insects. In addition to this, the department has several hundred riker mounts showing life histories of insects.

For advanced students an insect collection is available for comparison purposes. A reading table and library is maintained where students have access to a considerable number of entomological magazines.

In addition to the class rooms and laboratories in Science Hall, the department has a field laboratory, an insectary, and a bee house which are located on the south side of the campus. In this field laboratory there are facilities for studying the life histories of insects. An insecticide room, which contains a supply of different knds of insecticides, is maintained in one of the laboratories.

The equipment for the study of apiculture consists of an apiary of 50 colonies of bees located near the Brazos River and a bee house in connection with the field laboratory. The bee house is equipped with honey extractors, wiring devices, wax presses, and other beekeeping equipment which will enable the student to acquaint himself with the fundamentals of beekeeping.

GENETICS

The genetics department has two laboratories 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 room which provides optimum conditions for their culture. This laboratory is also equipped with compound microscopes and necessary reagents.

A small animal laboratory equipped with cages for rabbits, rats, and mice is maintained. A generous supply of these small animals is always on hand. They are used for inheritance studies by undergraduate and graduate students. A greenhouse is maintained by the department used largely by plant breeding students. Electrical calculating machines are provided for graduate students in Biometry.

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

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

GEOLOGY

The department occupies rooms in the Petroleum Engineering, Geology, and Engineering Experiment Station Building. These include a lecture room and three laboratories for general, historical, and structural geology, special combined lecture and laboratory rooms for mineralogy, petrology, paleontology, and sedimentation, three research laboratories, a seminar room, dark room and offices for the department. Exhibit foyers provide space for the display of specimens. Equipment includes geologic and crystallographic models, maps, goniometers, petrographic microscopes, plane tables and other surveying instruments, and an automobile for field trips.

The collection or rock, mineral, and fossil specimens donated by Mr. F. Steber of Dallas forms the nucleus of departmental collections. These in-

clude approximately 5,000 fossil specimens, 1,500 mineral specimens and 750 rock specimens. Library facilities include the Watson Library of 1500 bound volumes and 3000 pamphlets, the Bose Library of 300 bound volumes and 700 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 vegetables 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 horticulture farm and modern laboratories and cold storage facilities in the agricultural building.

INDUSTRIAL EDUCATION

Office, class rooms and laboratories of the Department of Industrial Education are located in the Mechanical Engineering Shops Building, Rooms 105, 106, 107, 108 and 115. The students of this department receive their fundamental training in bench woodwork, cabinet making, pattern making, foundry, machine shop, electrical work, automotive work, machine and architectural drafting under special instructors in each field in the respective engineering departments. The Department of Industrial Education has a drawing room and a laboratory of industries (general shop) equipped similarly to those of secondary school industrial arts departments. The students of the department learn to adapt the training they receive in the engineering department to the secondary school level through the Industrial Education courses, by observing and actually teaching industrial arts to pupils of the A. and M. Consolidated School in this laboratory of industries and drawing room.

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, sketches, and photographs.

In addition, the department has under its supervision the college greenhouses, hot-beds, cold frames, and lath houses, several acres in ornamental plants, an irrigated nursery, tree moving and other equipment designed for general landscape practice, all of which is available for class use.

A naturalistic park and arboretum of approximately 40 acres is being developed on college property, and the students are given opportunity of gaining practical experience through working on one of the commoner and more important landscape problems.

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, a 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 gray 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 engine 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.

The mechanical laboratory is one of the most modern and complete in the country. In both the steam and diesel power fields there are up-to-date power generating equipment in the form of a turbo-generator and a diesel generating unit, both of which can be loaded on to the college power line. A compound steam driven air compressor, a triple expansion steam engine, two cut-away automobile chassis and engines, three automotive type engines, two semi-diesel engines, two electric dynamometers, one tractor type engine,

a corliss, two smaller steam engines, condensers, circulating pumps, a Bacharach Flow Set and two York Refrigerating Machines. Instruments for testing are available.

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, Coast Artillery Corps and Chemical Warfare Service as follows:

Infantry: The Infantry is equipped with rifles, machine guns, automatic rifles, 37 mm. guns, trench mortars, hand and 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: Three 75 mm. batteries, consisting of twelve 75 mm. guns, 10 caissons, 18 limbers, 2 battery and store wagons, and two limbers, battery reel cart, 90 Artillery horses, harness and saddle equipment for all horses, and all accessories, spare parts and tools, one 155 mm. Howitzer and caisson and 12 motor trucks. The Artillery equipment also includes four Browning machine guns and a complete supply of fire control equipment such as B. C. telescopes, range finders, aiming circles, prismatic compasses, field glasses, and a supply of topographical equipment such as plane tables, alidades, compasses, plotting scales and protractors, telephone equipment, sectionalized ammunition and fuses, Field Artillery Trainer and terrain board.

Cavalry: Sixty sets of Cavalry horse equipment complete, including both McClellan and flat saddles; 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 telephone, radio telegraph; military telephones and switchboards, automatic telephones and switchboards; wavemeters; batteries; buzzer instruction sets; service buzzers; buzzerphones; amplifiers; 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 trucks for instruction in motor transportation of the anti-aircraft battery; various engineer instruments such as transits and levels for instruction in orientation.

Chemical Warfare Service: Gas masks, chemical mortars, Livens projectors, chemical cylinders, field meterological equipment.

PETROLEUM ENGINEERING

The Petroleum Engineering Department is housed in the new Petroleum Engineering. Geology and Engineering Experiment Station Building. Besides the usual class rooms the department has a large drafting room, in which well logs, cross sections and oil field maps are prepared by the students; a library which contains bound volumes of the oil journals and copies of all books pertaining to the subject of petroleum engineering; two development and production laboratories; an oil testing laboratory; a gas testing and measurement laboratory; motion picture camera and projector for instructional purposes and a truck for field trips to nearby oil fields.

Manufacturers of oil field equipment have donated both full size and models of the equipment which they manufacture. Donations include a 122 foot steel rotary drilling derrick, pumping units, rotary drilling tools, casing appliance, cementing equipment, sub-surface pumping equipment, oil and gas separators, formation testers, tools, etc. This equipment, in connection with equipment purchased by the department, has been arranged to give practical demonstrations of pumping wells, gas lift wells, well surveying methods, counterbalancing, treatment of emulsions, etc.

In the development and production laboratories are three shallow wells. One is equipped with a regular electrically driven Lufkin pumping unit, another to produce by the air-gas lift method, and the third is used for instruction in well surveying methods. The two producing wells are connected to an oil and gas separator and to lease tanks used for gauging and storage purposes. Other equipment includes, a Martin-Decker weight indicator, a Martin-Decker pump dynamometer, Watt-hour meter, stormer Viscosimeter, Halliburton measuring line, compressors and vacuum pumps, working model of standard cable tool rig and equipment for making screen, porosity and permeability tests on oil and gas sands.

The oil testing laboratory is equipped for all kinds of oil testing and contains viscosimeters, distillation equipment, flash test equipment, cold test equipment, carbon residue equipment, equipment for determining the water content of petroleum and a bomb calorimeter for determining sulphur and heat content of petroleum products. All testing is conducted by the standards set up by the U. B. Bureau of Standards, the American Petroleum Institute and the American Society for Testing Materials.

The gas testing measurement laboratory is equipped with gas calorimeters for measuring the heat content of gas, gas analysis equipment, gasoline content testing equipment, vapor pressure equipment, different types of flow controllers, orifice meters, displacement meters, and equipment for making open flow tests on gas wells.

A complete portable rotary drilling rig mounted on a truck has recently been added to the department. This rig is equipped with a hydraulic head

and uses flush joint drill pipe. It is capable of drilling a 4½-inch hole to a depth of one thousand feet. Practical instruction on rotary drilling is given with the use of this rig.

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 40 x 20 feet, is suitable for general experiments in light.

POULTRY HUSBANDRY

The Poultry Husbandry department has half of the two top floors of the new Animal Industries Building; also a large killing room, egg candling room and cold storage facilities in the new meats laboratory. The department also operates a farm of 45 acres with a total of 65 buildings which contain approximately 1000 hens bred for high egg production. A large part of the work on this farm is done by students specializing in the department. The principal breeds kept on the farm are the Rhode Island Red, Barred Plymouth Rock, White Leghorn and White Plymouth Rock; two breeds of ducks; two of geese; approximately 100 turkeys; a small flock of pigeons; a small rabbitry;

five varieties of pheasants; and two varieties of quail. The department also owns and operates two mammoth incubators and four makes of battery brooders. 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 is 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 Northrup 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, slides, and the apparatus used in histology and embryology.

VETERINARY MEDICINE AND SURGERY

The class room work, practice and clinics are conducted at the Veterinary Hospital which has rooms and other facilities for surgical and medical treatment of live stock and poultry of the farm and ranch and pet animals. There are wards for the isolation of small animals affected with transmissible

skin diseases, parasitic diseases, and infectious diseases, and wards for diseased poultry used in the clinic and courses offered in diseases of the fowl. X-ray equipment for examination and treatment of both large and small animals is provided in a specially constructed room.

Facilities for laboratory diagnosis of clinic cases assigned to students are provided on the second floor. These include necropsy room for small animals, wash and sterilizer room, incubator and refrigerator rooms, and laboratory equipment with apparatus for blood and urine analysis, bacteriological, pathological and serological examinations, and the preparation of autogenous bacterins. There is a room specially constructed and equipped for photographic work and demonstration with projection apparatus.

There is a large room with sanitary floors, glazed tile walls, ample daylight, and artificial light, for post-mortem examination of any animals that die in the clinic or that are brought in from the surrounding country and other parts of the State.

A large stable is used for housing cattle, horses, mules, sheep and goats that are being treated. There are other stables for isolating farm animals with infectious and parasitic diseases.

There are a number of pastures provided with shade and water for animals that do not need daily attention but are observed each day and if necessory given treatment until they recover.

Transportation service for large and small animals is available; also automobile transportation for students to see cases that can not be brought to the clinic.

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, 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, plethysmographs, erographs, tambours, manometers, muscle levers, cardiac levers, saccharometers, urinometers, ureometers, indicanometers, hydrometers, electric centrifuge, electric water bath (for digestion experiments), respiratory and circulatory schemes, microscopes, spectroscope, drug mill, suppository machine and mold, tablet machine, triturate tablet molds and other necessary equipment.

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 and at least sixteen years of age. He must be free from contagious or infectious diseases and must present a satisfactory certificate of recent vaccination against smallpox and typhoid-paratyphoid fever.

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 eight and one-half 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—	Number of Units Required in—						
	English	Algebra	Plane Geom.	Social Science	Natural Science	Elective Subjects	Total
Agriculture:		(See Note 1 Below)					
All curricula except Agricultural Engineering	3	1	1	1	1	8	15
Agricultural Engineering	3	1½	1	1	1	7½	15
Arts and Sciences:	3	1	1	2	1	7	15
Engineering:							
All curricula except Cotton Marketing and Industrial Education	3	1½	1	2	1	6½	15
Cotton Marketing and Industrial Education	3	1	1	2	1	7	15
Veterinary Medicine: (Pre-Veterinary)	3	1	1	1	1	8	15

List B—Elective Units

English (4th unit) ..... 1 unit

Mathematics:
- Advanced Algebra ..... ½ or 1 unit
- Solid Geometry ..... ½ unit
- Trigonometry ..... ½ unit
- Advanced Arithmetic ..... ½ unit

Social Sciences:
- Ancient History ..... 1 unit
- Modern History ..... 1 unit
- English History ..... ½ or 1 unit
- Amer. History ..... ½ or 1 unit
- World History ..... 1 unit
- Civics ..... ½ or 1 unit
- Economics ..... ½ unit

Foreign Languages:
- Latin ..... 2 to 4 units
- French ..... 2 to 4 units
- German ..... 2 to 4 units
- Spanish ..... 2 to 4 units

Natural Sciences:
- Biology ..... 1 unit
- Botany ..... 1 unit
- Chemistry ..... 1 unit
- General Science ..... 1 unit
- Physics ..... 1 unit
- Physiography ..... ½ unit
- Physiology ..... ½ or 1 unit
- Zoology ..... 1 unit

Vocational Subjects:
- Agriculture ..... 1 to 4 units
- Bookeeping ..... 1 unit
- Drawing ..... 1 to 4 units
- Com. Arithmetic ..... ½ unit
- Commercial Law ..... ½ unit
- Commercial Geography ..... ½ unit
- Shop Work ..... 1 to 4 units
- Stenography and Typewriting ..... 1 unit
- Public Speaking ..... ½ or 1 unit

NOTES.—1. At least 1½ units of Algebra are required as preparation for the first semester of Mathematics regularly scheduled in the freshman year of Engineering. Students will be admitted to these curricula with 1 unit of Algebra, but they must take Mathematics 101 in the first semester instead of Mathematics 102. The degree requirement for such students will be increased by 3 credit hours and they should plan to attend summer school to complete their freshman Mathematics and to be prepared for the work of the sophomore year.

Students with a good record in high school Algebra, who pass a satisfactory placement test in Algebra, may substitute Mathematics 102 for Mathematics 101.

2. Students who plan to enter the School of Engineering should complete Physics, Solid Geometry and 2 units of Algebra as a part of their course of study in high school.

3. 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, and the School of Veterinary Medicine 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 17, 1937 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 equivalent 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.

A special student who may desire to become a candidate for a degree must satisfy the entrance requirements and obtain the consent of the Den 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 Administration 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 20, 1937, will be devoted to the registration of new students; old students will register on Tuesday, September 21. Formal classwork begins Wednesday, September 22.

EXPENSES

The necessary expenditures for the regular session of nine months range from $360 to $375 for new students and from $335 to $350 for old students, distributed as follows:

First Semester

		Day Student	Dormitory Student
Payable on entrance, September 20-21:			
Fees payable to the Fiscal Department:			
Matriculation Fee (See note 1, page 68)	(required)	$ 25.00	$ 25.00
Medical Service Fee	(required)	5.50	5.00
[1]Room Rent to November 5 (See note 2, page 68)			6.00
[1]Board to November 5			37.75
Laundry to November 5			3.25
Room Key Deposit, returnable			1.00
Student Activities Fee	(voluntary)	11.00	11.00
Y. M. C. A. Privilege Card	(voluntary)	2.50	2.50
Total payable to Fiscal Department on entrance		$ 44.00	$ 91.50
Other Expenses (for items that may be purchased from the College Exchange Store):			
Text Books and Supplies, about		20.00	20.00
Total Payable on entrance for old students, about		$ 64.00	$111.50
Extra Expenses for new students:			
Uniform (See note 3, page 66) about		22.75	22.75
Freshman Physical Education Uniform (See note 6, page 66) about		1.50	1.50
Total payable on entrance for new students, about		$ 88.25	$135.75
(Add Drawing Instruments for Freshmen in Engineering, about $15.00.)			
Payable after entrance:			
November 1, [1]Room Rent to December 6	$ 3.75		
[1]Board to December 6	25.00		
Laundry to December 6	2.25		
Total payable November 1			$31.00
December 1, [1]Room Rent to January 7	2.00		
[1]Board to January 7	13.75		
Laundry to January 7	1.25		
Total payable December 1 (Christmas Holidays not included)			$17.00
January 3, [1]Room Rent to February 5	3.25		
[1]Board to February 5	23.00		
Laundry to February 5	1.75		
Total payable January 3			$28.00
Total Expenses for First Semester:			
For new students, about		$ 88.25	$211.75
For old students, about		$ 64.00	$187.50

[1] The Board and Room Rent or based on present conditions and may be changed if economic conditions make it necessary.

Second Semester:

Payable on entrance, February 5-7:		
Fees payable to the Fiscal Department:		
Matriculation Fee (See note 1, page 68 (required)	$ 25.00	$ 25.00
Medical Service Fee (required)	5.50	5.00
[2]Room Rent to March 5 (See note 2, page 68)		3.50
[2]Board to March 5		22.50
Laundry to March 5		2.00
Y. M. C. A. Privilege Card (voluntary)	2.50	2.50
Total Payable to the Fiscal Department	$ 33.00	$ 60.50
Other Expenses (for items that may be purchased from the College Exchange Store):		
Text Books and Supplies, about	$ 10.00	$ 10.00
Total payable on entrance for old students and for new students who were enrolled for the first semester	$43.00	$ 70.50

For Extra Expenses for new students who enter for the Second Semester, only, add:

Room Key Deposit, returnable	$ 1.00
Student Activities Fee (Voluntary)	7.50
Uniform (See note 3, page 66) about	22.75
Freshman Physical Education Uniform (See note 6, page 66) about	1.50
Extra for books, about	10.00
Subtotal	$42.75
Drawing Instruments for Freshmen in Engineering, about	$15.00
Total	$57.75

Payable after entrance:			
March, 1	[2]Room Rent to April 6	$ 4.00	
	[2]Board to April 6	25.50	
	Laundry to April 6	2.50	
	Total Payable March 1		$32.00
April 1,	[2]Room Rent to May 6	$ 3.75	
	[2]Board to May 6	24.25	
	Laundry to May 6	2.00	
	Total payable April 1		$30.00
May 1,	[2]Room Rent to June 4	$ 3.75	
	[2]Board to June 4	23.25	
	Laundry to June 4	2.00	
	Total Payable May 1		$29.00
Total Expenses for Second Semester for all students who were enrolled for the First Semester, about		$ 43.00	$161.50
Total Expenses for the entire Long Session:			
For new students, about		$131.25	$373.25
For old students, about		107.00	349.00

[2] The Board and Room Rent are based on present conditions and may be changed if economic conditions make it necessary.

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 $410 to $425 for new students and $390 to $405 for old students. In many cases these amounts can be materially reduced by careful economy.

The expenses for day students do not include room rent, board, or laundry.

All fees except room rent, board and laundry are payable in full at the beginning of the semester; these fees are payable in installments as shown above. The last three installments for each semester are due on the dates shown above, and if not paid within four days after the date indicated, the student will be required to vacate his room and change to a day student. Installments paid subsequently will cost $1.00 extra.

All students living in the dormitories, except graduate students, are required to pay the fees for board and laundry in addition to the fees for room rent. Fees for room rent (and laundry, if any) for students who do not pay the fees for board are payable for the full semester in advance, on entrance. Changes from day students to dormitory students, or vice versa, will be made only on the last day of installment payments for room rent, board and laundry.

NOTES.—1. For matriculation fee of non-resident students see page 67. Old students who either semester do not register on the days set apart for that purpose pay an additional matriculation fee of $2.00.

2. Reservations for rooms for the first semester may be made beginning June 1 for new students and July 1 for old students by making a deposit of $6.00 for the payment of the room rent payable on entrance. Deposits for room rent are not refundable after September 5. Application blanks for room reservations will be furnished by the Registrar on request. First semester students who wish to retain their room in the dormitories during the second semester must pay the fees payable on entrance not later than February 5.

3. Members of the basic R. O. T. C., (first and second year, see page 37) will be furnished the following equipment: one uniform coat, one pair of uniform trousers, two woolen O. D. shirts, and one black tie. It will be necessary for basic students to purchase the following articles with approximate cost at the College Exchange Store as listed: one extra pair trousers (Government issue), $4.75; uniform cap, $3.75; hat, $4.25 to $7.25; Sam Browne belt, $3.00; web belt, $0.50; collar ornaments, $1.00 to $1.50; hat cord, $0.25; two cotton O. D. shirts (optional) $3.00 to $4.00; about five cloth (branch) designations, $0.75; and to pay a handling charge covering cost of issuing, receiving, and record keeping of the Government uniform during the school year. The estimated total cost is $22.75. This amount should equip a student with sufficient uniform to last him through the first two years provided he takes proper care. This estimate does not include russet shoes (oxfords) and white shirts as most students will have these items that can be worn with the uniform. Since only approved articles of uniform may be worn, new students should purchase uniforms after arrival at the college.

4. Members of the advanced course will receive commutation of uniform totaling $36.00 for the two years and subsistence at 25 cents per day from the beginning of the Junior year to the end of the Senior year, except during camp when they receive rations in kind.

5. Students entering for the second semester only, will pay the charges indicated for the first semester, except the Student Activities Fee will be $7.50.

6. All students taking required Freshman physical education will be required to have a sleeveless gym. shirt, $0.60 and gym. pants, $0.90. Athletic shoes (about $1.50) and a sweat shirt (about $1.00) are needed, but most students will have this equipment.

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

Expenses of Graduate Students.—A graduate student is required to pay the matriculation fee and medical service fee. 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 board, laundry and room rent if he resides in a college dormitory.

Expenses of Part Time Students.—A student registering for less than twelve credit hours is required to pay a matriculation fee of $2.00 per credit hour with a minimum fee of $7.50.

Full time members of the College staff are not permitted to register in any semester for more than one-fourth of a full semester's work.

Expenses of Non-resident Students.—The matriculation fee for a non-resident student shall be an amount equivalent to that charged students from Texas by a similar school in the State of which the student shall be a resident and shall not be less than the amount charged resident students. A non-resident student is defined to be a student of less than twenty-one years of age, living away from his family and whose family resides in another State, or whose family has resided within this State for a peariod of time less than twelve months prior to the date of registration, or a student of twenty-one years of age or over who resides out of the State, or who has resided within the State for a period of less than twelve months prior to the date of registration.

Accredited School Scholarship.—A scholarship is offered annually to the valedictorian or honor graduate, if a boy, who is a graduate of an accredited secondary school of Texas that holds at least fifteen units accredited by the State Department of Education. The successful applicant must make the highest record among all the students, boys and girls, graduating that calendar year, including winter, spring, and summer graduating classes and must be certified through the State Department of Education. The scholarship is valid during the first long session after the holder's graduation from high school, and no other, and in no Summer Session. The financial benefit is the exemption from the matriculation fee of $50.00 for that session.

PAYMENTS

Payments to the Fiscal Department 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.

Refunds.—Any student withdrawing officially (a) during the first week of class work in a long session will receive a refund of four-fifths of the Matriculation Fee; (b) during the second week of class work three-fifths; (c) during the third week of class work two fifths; (d) during the fourth week of class work one-fifth, (e) after the fourth week of class work nothing; (f) during the first week of class work in a summer term one-half; (g) after the first week of class work in a summer term nothing.

No deductions will be made from charges for board, laundry and room rent in 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.

A refund of board and laundry will not be made unless there is a consecutive absence of not less than fifteen days due to illness of the student, or of a member of his family, or for some other unavoidable cause.

Unpaid Checks.—If a check or draft accepted by the Fiscal Department 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 twenty-five 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. The medical fee of day students includes the meals while they are confined to the hospital.

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

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 $11.00. It is paid at registration, but is not compulsory. A student entering after the Christmas holidays will pay only $7.50. 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.

Y. M. C. A. Privilege Card.—The College Y. M. C. A., the agency through which many cultural and recreational features of the College life are provided for all students, gives each student purchasing a privilege card free admission to a picture show each Saturday evening of the semester.

HOUSING

The College has dormitory facilities on the Campus adequate to accommodate the major part of the students, and believes that most students who do not live at home will find it to their best interest to reside in the dormitories and eat in the College Mess Hall. The Mess Hall furnishes the students at cost, adequate well-balanced meals prepared under the direction of an experienced supervisor. The dormitory rooms are designed especially to meet the student's needs for living and study. Cost of room rent and maintenance are

kept as low as is consistent with the quality of food and service furnished. Students residing in the dormitories are required to take their meals in the Mess Hall.

Students who obtain employment which prevents their living on the campus, or those who prefer not to live in the dormitories are permitted to live off the campus in approved rooming and boarding houses, or in the cooperative project groups.

Dormitory Room Reservations.—Dormitory space is allotted to the several classes on an equitable basis. Regularly classified upper classmen will be given preference in assignment to the space allotted to their classes. Reservations will be filed in the order in which they are received and will be held only until 3:00 p. m. of the regular registration day. Reservations made by students who do not complete their registration on the regular registration day by 3:00 p. m. will be cancelled and the space will be assigned to another applicant.

New students may file room reservation applications beginning June 1. As soon as a new student has been accepted for admission, he will be mailed a room reservation request card which should be filled out as directed and returned to the Registrar with a check or money order of $6.00 for room reservation fee. As soon as the reservation has been made, the student will be notified of his assignment to dormitory space. The room reservation fee will be credited to the student as his first installment of room rent upon his registration in September. Should a student decide that it will be impossible for him to register, he may have his reservation cancelled not later than September 5, and the fee returned. Cancellations made after this date will result in a forfeit of the reservation fee. The room assignment card and room reservation fee receipt must be preserved and brought with the student to be used in connection with his registration.

Old students may file room reservation applications beginning July 1. A room reservation application form will be mailed to the old students with their second semester grades early in June. These should be filled out as directed and returned to the Registrar with a check or money order for $6.00 room reservation fee which will be credited to the student as his first installment of room rent upon his registration in September. Old students who are not classified will be unable to file room reservation applications until September 1, as reservations for classified students will be given priority until this date. As soon as the reservation has been made, the student will receive a reservation card and receipt for room reservation fee. These must be preserved and brought with the student to be used in connection with registration. Should a student desire to withdraw his room reservation request, the $6.00 room reservation fee will be refunded, provided cancellation has been made not later than September 5. Any cancellations made after September 5, will result in a forfeit of the fee.

Cooperative Project Houses.—In order to permit students to reduce their living expenses by bringing food from their homes, a limited number of co-

operative community rooming and boarding houses will be approved for residence of groups of students under the following conditions:

(a) Each project must be approved in advance, both as to its plan of operation and the building to be occupied.
(b) All members of the group must be bona fide residents of a territory usually not larger than one county.
(c) Since experience has indicated that the overhead cost for a small group is excessive, no group of less than ten students will be approved.
(d) The house must be in charge of a matron, who must be a resident of the home community of the students, and who will be responsible for the maintenance of a proper moral atmosphere, will enforce the College rules and regulations applying to day students, will see that suitable conditions for study prevail, and will enforce quiet hours after 7:30 p. m. every night except Saturday nights. The matron will also see that the rooms and premises surrounding the house are kept in a neat and sanitary condidition.
(e) No non-students other than members of the matron's immediate family are permitted to reside or to board at a cooperative house.
(f) The group must show evidence that it has the backing of the local community, at least to the extent of aid in canning and preserving food and getting this food transported to College Station.
(g) The house must be open to inspection by authorized officials of the College at any reasonable time.

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, a 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 amount of time he can spare from his studies.

Applications for student labor will not be considered until after the student's application for admission has been approved by the registrar.

Further information regarding opportunities for employment may be secured from the Student Labor Committee.

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 execed 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

CURRICULA

There are sixteen curricula extending through four years; of these the curriculum in Liberal Arts leads to the degree of Bachelor of Arts; the others lead to the degree of Bachelor of Science. The curriculum in Architecture covers a period of five years and leads to the degree of Bachelor of Architecture. The five-year curriculum in Petroleum Engineering leads to the degree of Bachelor of Petroleum Engineering. The curriculum in Veterinary Medicine, including the pre-vetinary year, covers a period of five years and leads to the degree of Doctor of Veterinary Medicine. Graduate courses and a short course are also offered as shown below.

FOUR-YEAR CURRICULA

Agriculture
Agricultural Administration
Agricultural Education
Agricultural Engineering
Landscape Art
[1]Liberal Arts
[1]Science
Architectural Engineering
Chemical Engineering
Civil Engineering
Electrical Engineering
Engineering Administration
Industrial Education
Mechanical Engineering
Petroleum Engineering
Textile Engineering

FIVE-YEAR CURRICULA

Architecture
Petroleum Engineering
Veterinary Medicine (Including Pre-Veterinary year)

GRADUATE COURSES

Courses of study are offered leading to the degree of Master of Science with majors in most of the departments of the Schools of Agriculture, Engineering, and Arts and Sciences. Programs of graduate study and research leading to the degree of Doctor of Philosophy are provided in certain fields related to agriculture and engineering. Professional degrees in engineering are awarded under the requirements set forth in the Graduate School Bulletin.

TWO-YEAR CURRICULUM

Cotton Marketing and Classing.

[1] Including preparation for teaching other than agricultural education and industrial education.

THE SCHOOL OF AGRICULTURE

The following curricula are offered in the school of Agriculture:

Agriculture
Agricultural Administration
Agricultural Education
Agricultural Engineering
Landscape Art

AGRICULTURE

The curriculum 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 agronomy, animal husbandry, dairy husbandry, farm management, horticulture, poultry 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 eight 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 agronomy, animal husbandry, dairy husbandry, entomology, horticulture, poultry husbandry, or rural sociology.

AGRICULTURAL ADMINISTRATION

The curriculum in Agricultural Administration is designed to give students a broad training in business, a thorough understanding of economic problems, and a scientific attitude toward the technical aspects of agriculture. The curriculum is based upon the important concept that industry, commerce and agriculture—particularly in a predominantly agricultural state likeTexas —are interdependent; and upon the belief that the business leader in one field needs a grasp of the problems in the related field.

There is a strong and growing demand for the services of graduates who have the combined type of training afforded by this course. Students are prepared especially for positions of leadership in various types of commercial concerns that operate in agricultural regions; with private or cooperative businesses that deal in farm products and supplies; and as teachers, writers, advisors, research workers or executives with state, federal, and other institutions requiring combined training in business and agriculture.

At the beginning of his curriculum, the student is given foundation courses in English, mathematics, science, economics, government, economic geography, economic history (stressing the agricultural aspects), and survey courses in

farm crops and livestock. During the latter part of his training the student takes courses looking toward definite fields such as accounting, statistics, marketing, finance, agricultural economics and farm management.

At the beginning of the sophomore year the student elects one of two groups, (1) accounting and statistics, (2) marketing and finance (including agricultural economics and farm management). The required courses in these groups will be found on pages 92 to 94. In both groups ample freedom is given the student to choose from other departments, electives that will contribute to the type of professional training he wishes to receive.

AGRICULTURAL EDUCATION

This curriculum 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.

Graduates of approved institutions have 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) The curriculum for majors in Agricultural Education; and (2) at least one year's residence.

AGRICULTURAL ENGINEERING

The curriculum in agricultural engineering is planned to give the student an engineering training with an agricultural viewpont. A thorough grounding in fundamental engineering principles is given, as much time is devoted to purely agricultural subjects as is possible, and the applcation 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 utilities, and more land to be reclaimed by soil erosion control, drainage, irrigation and clearing.

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

LANDSCAPE ART

The purpose of the program in landscape art 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 semi-private.

THE SCHOOL OF ARTS AND SCIENCES

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

[2]LIBERAL ARTS

The curriculum 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)

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

[2]SCIENCE

The curricula in Science are 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.

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 curriculum in Science who complete in this College the first three years of that program, including the minimum premedical requirements, 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.

EDUCATION AND PHYSICAL EDUCATION

The credit courses in Education and Physical Education provide the necessary professional training for those who plan to teach in secondary schools. All of these, except those entering on Vocational Agriculture and Industrial Education, should carefully follow one or another of the following programs.

[2] For a more detailed description of the above curricula 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.

1. Students following any catalogued program of studies leading to a bachelor's degree may secure a general teachers certificate valid for four years by electing the following courses; Education 121, Psychology 301, Education 321, Education 322. Since employment as a teacher will often be contingent on credit for courses in Physical Education, such students should if possible elect Physical Education 207 and 305 or 306.

2. Students who major in Education or Physical Education may follow programs leading either to the B.A. or the B.S. degree, the degree awarded depending on the field in which they prepare to teach and on the inclusion or omission of a foreign language in their undergraduate work. Preparation for teaching in some one of the usual high school fields (commercial work, English, history and social studies, mathematics, modern languages, natural sciences) is an essential part of the program for students who major in education or physical education, each of whom will be required to complete as nearly as possible some one of the groups of courses designated for that purpose in the Handbook of the School of Arts and Sciences.

A teachers appointment service, under the direction of the School of Arts and Sciences 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 Professor W. L. Hughes, Head of the Department of Education.

THE SCHOOL OF ENGINEERING

The following curricula are offered in the School of Engineering:

FOUR-YEAR CURRICULA

Architectural Engineering	Industrial Education
Chemical Engineering	Geological Engineering
Civil Engineering	Mechanical Engineering
Electrical Engineering	Petroleum Engineering
Engineering Administration	Textile Engineering

FIVE-YEAR CURRICULA

Architecture	Petroleum Engineering

TWO-YEAR CURRICULUM

Cotton Marketing and Classing.

ARCHITECTURE AND ARCHITECTURAL ENGINEERING

These curricula in architecture are planned to give thorough instruction in the subjects which are generally recognized as necessary in preparation for architectural design and building construction. They are 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 courses are arranged: Architectural Design, which develops special ability in composition, planning, and rendering in the later years of the course; 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 courses, and as the courses develop, the emphasis upon the special work of each one is increasd, until in the last year, it becomes distinct and separate. Both courses 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 courses the student should be guided by his natural inclination toward the type of work which is emphasized in that group. Graduates in these courses find positions as draftsmen, designers, superintendents or general assistant in architects' offices; in the architectural and engineering departments of business and railway corporations; in the construction companies, in state and municpal 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 curriculum 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 materials 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 controlling 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 curriculum 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, sewage 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 communities; administration 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 curriculum 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 measurement. 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 illustrations 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. Graduates in this course may find an outlet for their special abilities in one or more of the following fields:

In electrical generating stations and systems, technically trained engineers are needed to deal with the operation of plants and equipment, the design and construction of transmission and distribution, and the management of these systems or districts.

Manufacturing of electrical equipment embraces the research and design for new equipment, the application of equipment to special utilization problems, and the sales and installation of equipment to customers of the organization.

The electrical engineer in the field of industrial organization is concerned with the design and installation of electrical equipment for special uses, with layouts, and with the maintenance and operation of electrical systems and devices.

The manufacture and design of transportation equipment for electric railways, the operation of the railways, and the electrification of steam systems require the engineer's supervision.

Telephone and telegraph companies demand trained engineers in the research and development of new equipment, the design and construction of long lines, the maintenance of communication circuits and equipment, and the management of executive positions.

Radio engineering and allied industries, which comprise the design and construction of radio equipment and the installation and operation of broadcast stations, public address systems, and moving picture equipment, afford a comparatively new field. The amateur radio club established at the College maintains a ham station for students interested in short-wave radio communication.

The petroleum industry is requiring increasing numbers of Electrical Engineer graduates. These men are employed in the geophysical department of the major oil companies and are employed in the design, construction, and

operation of field radio sets and electrically operated exploration equipment, used in the prospecting for oil and other underground mineral deposits.

Graduates in Electrical Engineering who are members of the Signal Corps unit of the Reserve Officers Training Corps receive thorough instruction in telephone, telegraph, and radio engineering and, upon completion of their courses, may be commissioned as reserve officer in the Signal Corps. All students having a primary interest in communication engineering should arrange to register in the signal corps in their freshman year, since the electrical communication courses are very closely coordinated with the signal corps work.

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

ENGINEERING ADMINISTRATION

The curriculum in engineering administration is planned to meet the needs of those who wish to secure an education which includes the essentials of an engineering training and also the rudiments of a training designed to enable the student to deal readily with the business or economic side of engineering projects. To this end some of the technical engineering subjects required of graduates in the four-year engineering curricula must be omitted, in order to provide time for the study of such matters as accounting, economics, and business law to a greater extent than would otherwise be possible.

The work of any one of several engineering curricula, such as civil, mechanical, or electrical engineering may be taken for the first two years, at the end of which time the student may find that he has special aptitude for or special interest in the economic phases of engineering activities. He can then elect to change to engineering administration, taking up a group of subjects designed to give him some training in each of several fields of engineering, along with an introduction to business or administrative studies in the senior year a wide latitude in regard to the choice of electives is allowed, making it possible to select the subjects which will be of greatest interest and benefit.

GEOLOGICAL ENGINEERING

The curriculum in Geological Engineering announced in former catalogues has been discontinued. Students now enrolled in this curriculum will be awarded the degree of Bachelor of Science in Geological Engineering upon the completion of the requirements outlined in the 60th Catalogue. Others who are interested in combining some training in engineering with their study of geology should consult their dean or the head of the Department of Geology.

INDUSTRIAL EDUCATION

(Group 1)

This curriculum is intended to train teachers, supervisors, and directors for the vocational industrial schools and classes of Texas. Since the men completing this course are to qualify as teachers under the State Plan for Vocational Education a candidate for a degree must satisfy the requirements for one of the classes of vocational teachers as specified in Bul. No. 304 of the State Department of Education.

(Group 2)

The Industrial Education curriculum (under Group 2) in general aims to prepare young men for the following types of occupations:

1. Teachers of industrial arts subjects in junior, senior or technical schools. Industrial arts in these schools includes such subjects as: laboratory of industry, electrical work, metal work, woodwork and technical drawing.
2. Teachers of occupational courses and sponsors of guidance, safety and personnel programs in public schools.
3. Employees in industrial relations departments of industries which includes such work as employee training, employment, personnel and accident prevention. Students preferring to enter this field will elect subjects dealing with management and labor problems.

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 curriculum 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 and air conditioning equipment, locomotives and railways 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 student in the fundamentals of good management and endeavors to give an appreciation of the human element in all engineering.

Practice work in 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, aeronautics, automotive, and air conditioning.

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

PETROLEUM ENGINEERING

The curricula in Petroleum Engineering are intended to prepare students for the petroleum industry and particularly those branches which have to do with drilling, production, and transportation of petroleum as well as the natural gas industry.

Two curricula are available to the student in this department; a regular four year curriculum in Petroleum Engineering, which leads to a degree of Bachelor of Science, and a five year curriculum in Petroleum Engineering which leads to a degree of Bachelor of Petroleum Engineering.

The four year curriculum in Petroleum Engineering includes sufficient training in civil, mechanical, and electrical engneering to prepare the graduate for the application of engineering principles to 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 the thorough grounding in the fundamentals, however, rather than on the application to particular problems.

The five-year curriculum is identical with the four-year course for the first two years and allows the student two years to decide whether he wants to take four or five years of work. All courses given in the four year course are included in the five year course and in addition there is included in the five year course more of the fundamental sciences and other essential courses which lack of time does not permit being included in the four year course.

TEXTILE ENGINEERING

The object of this curriculum 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 curriculum 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 CURRICULUM IN COTTON MARKETING AND CLASSING

The two year curriculum 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.

Completion of this curriculum will be accepted as full junior standing in Group 2, Agricultural Administration.

THE SCHOOL OF VETERINARY MEDICINE

VETERINARY MEDICINE

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

The first and second years are in a large measure devoted to the physical and biological studies that contribute so much to an understanding of problems of health and disease. The third and fourth 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 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 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 Committee consisting of twelve members, which reports its recommendations to the general faculty. In cases in which prompt action is desirable, the

committee is auhorized to act, reporting its action to the faculty for ratification.

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 ar acted upon by the Dean, or by the Graduate Committee, if any matter is involved concerning which a policy has not been definitely established.

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

Graduate School Bulletin.—There is published annually, as a Bulletin of the College, an announcement of the work of the Graduate School, in which will be found full information concerning conditions of admission, requirements for degrees, including residence, thesis, and examinations. A copy of this Bulletin will be sent on request.

Degrees.—The Degree of Master of Science is awarded to students who have received appropriate bachelor's degrees and thereafter complete approved advanced courses of study requiring not less than one full year of successful work.

The degree of Doctor of Philosophy is awarded to students who have received appropriate bachelor's degrees and thereafter complete approved programs of advanced study and research in certain fields related to agriculture and engineering. Such programs are administered cooperatively by departments of pure and applied science and divisions of the Texas Agricultural Experiment Station and the Texas Engineering Research Station.

Professional degrees in Engineering.—Agricultural Engineer, Architectural Engineer, Chemical Engineer, Civil Engineer, Electrical Engineer, Mechanical Engineer—are offered on the basis of acceptable professional experience, a thesis, and an examination.

Residence.—The Master's degree will not be conferred except after a residence of at least one year at the College, except that this requirement may be satisfied by residence during four summer terms of six weeks each. The candidate who spends no more than four summer terms in residence may fulfill the requirements for the Master's degree, only provided that, in the *ad interim* period between summer sessions, he does the greater part of the work on his thesis.

Fellowships and Assistantships.—The College offers annually a limited number of graduate assistantships and fellowships. Certain industrial interests of the State make available other fellowships. Detailed announcements will be found in the Bulletin of the Graduate School. Applications should be filed on forms supplied by the Dean of the Graduate School, before April 15.

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 credible work in architectural design throughout the school year.

THE WIITCHELL 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 course 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 done 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

CURRICULUM IN AGRICULTURE

FRESHMAN YEAR

(For Groups 4, Agronomy and 9, Horticulture)

First Semester	Credit	Second Semester	Credit
Animal Husbandry 107 (2-4) General Animal Husbandry	3	**Agricultural Economics 101** (4-0) Agricultural Resources	4
Biology 101 (3-4) General Botany	4	**Agronomy 105** (3-2) Crop Production	4
Chemistry 101 (3-3) Inorganic Chemistry	4	**Biology 213** (2-4) Plant Physiology	3
English 103 (3-0) Rhetoric and Composition	3	**Chemistry 102** (3-3) Inorganic Chemistry	4
Mathematics 109 (3-0) Agricultural Mathematics	3	**English 104** (3-0) Rhetoric and Composition	3
Military Science (1-2)	1	**Military Science** (1-2)	1
Physical Education 101 (0-2)	R	**Physical Education 102** (0-2)	R
	18		19

FRESHMAN YEAR

(For Groups 5, Animal Husbandry; 7, Dairy Husbandry; 8, Entomology; 11, Poultry Husbandry; and 12, Rural Sociology)

Agricultural Economics 101 (4-0) Agricultural Resources	4	**Agronomy 105** (3-2) Crop Production	4
Animal Husbandry 107 (2-4) General Animal Husbandry	3	**Biology 101** (3-4) General Botany	4
Biology 207 (2-4) Zoology	3	**Chemistry 102** (3-3) Inorganic Chemistry	4
Chemistry 101 (3-3) Inorganic Chemistry	4	**English 104** (3-0) Rhetoric and Composition	3
English 103 (3-0) Rhetoric and Composition	3	**Mathematics 109** (3-0) Agricultural Mathematics	3
Military Science (1-2)	1	**Military Science** (1-2)	1
Physical Education 101 (0-2)	R	**Physical Education 102** (0-2)	R
	18		19

Suggested electives for all Groups in the sophomore year:

Accounting and Statistics 201 (3-3) Principles of Accounting	4	**Accounting and Statistics 202** (3-3) Principles of Accounting	4
Agricultural Engineering 203 (2-2) Gas Engines	3	**Animal Husbandry 202** (2-2) Breed Types	3
Animal Husbandry 203 (2-2) Market Classes and Grades	3	**Economics 316** (3-0) Business Law	3
Poultry Husbandry 201 (2-2) Poultry Production	3	**Horticulture 202** (2-2) Vegetable Gardening	3
Rural Sociology 201 (3-0) Introduction to Social Problems	3	**Rural Sociology 204** (3-0) Introductory Rural Sociology	3

NOTES—1. Electives must be chosen under the advice and direction of the head of the department in which the student is majoring.

2. Students in all Groups except Group 8 shall take at least two courses in Agricultural Economics or Accounting and Statistics in addition to Agricultural Economics 101 required above.

GROUP 4. AGRONOMY

SOPHOMORE YEAR

Agricultural Engineering 201 (2-2) Farm Machinery	3	**Biology 206** (2-4) Bacteriology	3
Dairy Husbandry 202 (2-2) Dairying	3	**Chemistry 212** (3-0) Agricultural Chemistry	3
English 203 (2-0) Composition and Literature	2	**Chemistry 214** (1-3) Agricultural Analysis	2
Entomology 201 (2-2) General Entomology	3	**Economics 403** (3-0) Principles of Economics	3
Horticulture 201 (2-2) Plant Propagation	3	**English 210** (2-0) Writing and Discussion	2
Military Science (1-2)	1	**Military Science** (1-2)	1
Elective	3	**Elective**	4
	18		18

JUNIOR YEAR

First Semester		Credit	Second Semester		Credit
Agricultural Engineering 305 Terracing and Drainage	(2-3)	3	**Genetics 304** Plant Breeding	(3-2)	4
Agronomy 301 Soils	(3-2)	4	**History 305** American Government	(3-0)	3
Genetics 301 Genetics	(3-2)	4	[1]**Elective**		11
[1]**Elective**		7			18
		18			

SENIOR YEAR

Animal Husbandry 409 Animal Nutrition and Feeding	(3-3)	4	**English 401** Public Speaking	(2-0)	2
[1]**Elective**		14	**Rural Sociology 415** Agricultural Journalism	(2-2)	3
		18	[1]**Elective**		13
					18

[1] A minimum of 16 credit hours must be taken as part of the elective work in the junior and senior years from the following:

Agronomy 314 Field Crops	(3-2)	4	**Agronomy 308** Forage Crops	(2-2)	3
Agronomy 315 Cotton Production	(2-2)	3	**Agronomy 410** Soil Mapping	(0-3)	1
Agronomy 415 Soil and Crop Seminar	(1-0)	1	**Agronomy 413** Soil and Crop Problems	(3-0)	3
Agronomy 417 Range and Pasture Improvement	(2-0)	2	**Agronomy 416** Soil and Crop Seminar	(1-0)	1
			Agronomy 418 Soil Conservation	(2-3)	3
			Agronomy 420 Cotton Research Problems	(1-0)	1

GROUP 5. ANIMAL HUSBANDRY

SOPHOMORE YEAR

Biology 206 Bacteriology	(2-4)	3	**Agricultural Engineering 201** Farm Machinery	(2-2)	3
Dairy Husbandry 202 Dairying	(2-2)	3	**Chemistry 212** Agricultural Chemistry	(3-0)	3
English 203 Composition and Literature	(2-0)	2	**Chemistry 214** Agricultural Analysis	(1-3)	2
Entomology 201 General Entomology	(2-2)	3	**Economics 403** Principles of Economics	(3-0)	3
Horticulture 201 Plant Propagation	(2-2)	3	**English 210** Writing and Discussion	(2-0)	2
Military Science	(1-2)	1	**Military Science**	(1-2)	1
Elective		3	**Elective**		4
		18			18

JUNIOR YEAR

Agronomy 301 Soils	(3-2)	4	**History 305** American Government	(3-0)	3
Animal Husbandry 303 Animal Nutrition	(3-3)	4	[2]**Elective**		15
Genetics 301 Genetics	(3-2)	4			18
[2]**Elective**		6			
		18			

SENIOR YEAR

Rural Sociology 415 Agricultural Journalism	(2-2)	3	**Agricultural Engineering 424** Terracing	(1-3)	2
[2]**Elective**		15	**English 401** Public Speaking	(2-0)	2
		18	[2]**Elective**		14
					18

First Semester	Credit	Second Semester	Credit

[2] A minimum of 16 credit hours must be taken as part of the elective work in the junior and senior years from the following:

Animal Husbandry 307 Farm Meats	(1-3) 2	**Animal Husbandry 403** Advanced Judging	(0-6) 2
Animal Husbandry 308 Livestock Judging	(1-3) 2	**Animal Husbandry 406** Beef Cattle Production	(3-0) 3
Animal Husbandry 413 Horse and Mule Production	(3-0) 3	**Animal Husbandry 410** Sheep and Angora Goat Production	(2-3) 3
Animal Husbandry 419 Meat Preservation Problems	(1-3) 2	**Animal Husbandry 412** Swine Production	(3-0) 3
Animal Husbandry 421 Advanced Studies of Breeds of Live Stock	(2-0) 2	**Animal Husbandry 418** Wool and Mohair	(2-3) 3
Animal Husbandry 425 Practicums	(0-3) 1	**Animal Husbandry 420** Quality in Meats	(2-0) 2
Animal Husbandry 427 Seminar	(1-0) 1	**Animal Husbandry 424** Range Live Stock Production	(3-0) 3
		Animal Husbandry 426 Practicums	(0-3) 1
		Animal Husbandry 428 Seminar	(1-0) 1

GROUP 7. DAIRY HUSBANDRY

SOPHOMORE YEAR

[3]**Agricultural Engineering 201** Farm Machinery	(2-2) 3	**Biology 206** Bacteriology	(2-4) 3
Dairy Husbandry 202 Dairying	(2-2) 3	**Chemistry 212** Agricultural Chemistry	(3-0) 3
English 203 Composition and Literature	(2-0) 2	**Chemistry 214** Agricultural Analysis	(1-3) 2
[4]**Entomology 201** General Entomology	(2-2) 3	**Economics 403** Principles of Economics	(3-0) 3
[4]**Horticulture 201** Plant Propagation	(2-2) 3	**English 210** Writing and Discussion	(2-0) 2
Military Science	(1-2) 1	**Military Science**	(1-2) 1
Elective	3	**Elective**	4
	18		18

JUNIOR YEAR

[4]**Agronomy 301** Soils	(3-2) 4	**History 305** American Government	(3-0) 3
[4]**Genetics 301** Genetics	(3-2) 4	[5]**Elective**	15
[5]**Elective**	10		18
	18		

SENIOR YEAR

Animal Husbandry 303 Animal Nutrition	(3-3) 4	[4]**Agricultural Engineering 424** Terracing	(1-3) 2
[5]**Elective**	14	**English 401** Public Speaking	(2-0) 2
	18	**Rural Sociology 415** Agricultural Journalism	(2-2) 3
		[5]**Elective**	11
			18

[3] Students majoring in dairy manufacturing will substitute Mechanical Engineering 213 (Dairy Mechanics) for Agricultural Engineering 201.
[4] Elective for dairy manufacturing students. For option consult head of department.

First Semester	Credit	Second Semester	Credit

[5] A minimum of 16 credit hours must be taken as part of the elective work in the junior and senior years from the following:

Dairy Husbandry 301 Market Milk	(3-2) 4	Dairy Husbandry 306 Butter Making and Factory Management	(3-2) 4
Dairy Husbandry 303 Dairy Cattle Judging	(0-4) 1	Dairy Husbandry 310 Advanced Dairy Cattle Judging	(0-2) 1
Dairy Husbandry 307 Judging Dairy Products	(0-3) 1	Dairy Husbandry 311 Technical Control of Dairy Products	(2-3) 3
Dairy Husbandry 320 Bacteriology of Dairy Products	(3-4) 4	Dairy Husbandry 322 Advanced Dairy Bacteriology	(2-3) 3
Dairy Husbandry 407 Ice Cream Making and Refrigeration	(3-2) 4	Dairy Husbandry 408 Cheese Mak. and Adv. Test.	(2-3) 3
Dairy Husbandry 417 History and Development of Dairy Cattle	(3-3) 4	Dairy Husbandry 415 Condensed Milk and Milk Powder	(3-0) 3
Dairy Husbandry 421 Dairy Husbandry Seminar	(1-0) 1	Dairy Husbandry 418 Feeding and Management.	(3-2) 4
		Dairy Husbandry 422 Dairy Husbandry Seminar	(1-0) 1

GROUP 8. ENTOMOLOGY

SOPHOMORE YEAR

Biology 206 Bacteriology	(2-4) 3	Agricultural Engineering 201 Farm Machinery	(2-2) 3
Dairy Husbandry 202 Dairying	(2-2) 3	Chemistry 212 Agricultural Chemistry	(3-0) 3
English 203 Composition and Literature	(2-0) 2	Chemistry 214 Agricultural Analysis	(1-3) 2
Entomology 201 General Entomology	(2-2) 3	Economics 403 Principles of Economics	(3-0) 3
Horticulture 201 Plant Propagation	(2-2) 3	English 210 Writing and Discussion	(2-0) 2
Military Science	(1-2) 1	Military Science	(1-2) 1
Elective	3	Elective	4
	18		18

JUNIOR YEAR

Agronomy 301 Soils	(3-2) 4	Horticulture 318 Fruit Production	(2-3) 3
Horticulture 317 Fruit Production	(2-3) 3	[6]Elective	15
[6]Elective	11		18
	18		

SENIOR YEAR

History 305 American Government	(3-0) 3	English 401 Public Speaking	(2-0) 2
Rural Sociology 415 Agricultural Journalism	(2-2) 3	[6]Elective	16
[6]Elective	12		18
	18		

[6] A minimum of 16 credit hours must be taken as part of the elective work in the junior and senior years from the following:

Entomology 301 Systematic Entomology	(2-4) 3	Entomology 208 Animal Parasites	(2-2) 3
Entomology 305 Morphology	(2-3) 3	Entomology 302 Systematic Entomology	(2-4) 3
Entomology 307 Apiculture	(3-2) 4	Entomology 306 Morphology	(2-3) 3
Entomology 401 Advanced Economic Entomology	(2-4) 3	Entomology 308 Apiculture	(3-2) 4
Entomology 405 Fruit Insects	(2-2) 3	Entomology 402 Advanced Economic Entomology	(2-4) 3
Entomology 411 Cotton Insects	(2-2) 3	Entomology 412 Entomological Literature	(3-0) 3
Entomology 417 Special Problems	(3-2) 4	Entomology 416 Quarantine Measures	(3-0) 3
		Entomology 418 Special Problems	(3-2) 4

GROUP 9. HORTICULTURE

SOPHOMORE YEAR

First Semester		Credit	Second Semester		Credit
Agricultural Engineering 201 Farm Machinery	(2-2)	3	**Biology 206** Bacteriology	(2-4)	3
Dairy Husbandry 202 Dairying	(2-2)	3	**Chemistry 212** Agricultural Chemistry	(3-0)	3
English 203 Composition and Literature	(2-0)	2	**Chemistry 214** Agricultural Analysis	(1-3)	2
Entomology 201 General Entomology	(2-2)	3	**Economics 403** Principles of Economics	(3-0)	3
Horticulture 201 Plant Propagation	(2-2)	3	**English 210** Writing and Discussion	(2-0)	2
Military Science	(1-2)	1	**Military Science**	(1-2)	1
Elective		3	**Elective**		4
		18			18

JUNIOR YEAR

Agronomy 301 Soils	(3-2)	4	**History 305** American Government	(3-0)	3
Genetics 301 Genetics	(3-2)	4	[7]**Elective**		15
[7]**Elective**		10			
		18			18

SENIOR YEAR

English 401 Public Speaking	(2-0)	2	**Agricultural Engineering 424** Terracing	(1-3)	2
Entomology 405 Fruit Insects	(2-2)	3	**Biology 416** Plant Diseases	(2-4)	3
Landscape Art 301 Introduction to Landscape Art	(3-4)	4	**Rural Sociology 415** Agricultural Journalism	(2-2)	3
[7]**Elective**		9	[7]**Elective**		10
		18			18

[7] A minimum of 16 credit hours must be taken as part of the elective work in the junior and senior years from the following:

Horticulture 311 Vegetable Products	(1-3)	2	**Horticulture 310** Commercial Vegetable Gardening	(2-2)	3
Horticulture 317 Principles of Fruit Production	(2-3)	3	**Horticulture 312** Vegetable Products	(1-3)	2
Horticulture 401 Systematic Pomology	(3-2)	4	**Horticulture 318** Principles of Fruit Production	(2-3)	3
Horticulture 404 Systematic Vegetable Crops	(2-2)	3	**Horticulture 418** Nut Culture	(1-3)	2
Horticulture 423 Geography of Horticultural Industries	(2-0)	2	**Horticulture 422** Subtropical Fruits	(3-2)	4
			Horticulture 425 History and Literature of **Horticulture**	(2-0)	2
			Horticulture 426 Commercial Propagation	(2-3)	3

GROUP 11. POULTRY HUSBANDRY

SOPHOMORE YEAR

First Semester		Credit	Second Semester		Credit
Biology 206 Bacteriology	(2-4)	3	**Agricultural Engineering 201** Farm Machinery	(2-2)	3
Dairy Husbandry 202 Dairying	(2-2)	3	**Chemistry 212** Agricultural Chemistry	(3-0)	3
English 203 Composition and Literature	(2-0)	2	**Chemistry 214** Agricultural Analysis	(1-3)	2
Entomology 201 General Entomology	(2-2)	3	**Economics 403** Principles of Economics	(3-0)	3
Horticulture 201 Plant Propagation	(2-2)	3	**English 210** Writing and Discussion	(2-0)	2
Military Science	(1-2)	1	**Military Science**	(1-2)	1
Elective		3	**Elective**		4
		18			18

JUNIOR YEAR

Agronomy 301 Soils	(3-2)	4	**Entomology 208** Animal Parasites	(2-2)	3
Animal Husbandry 303 Animal Nutrition	(3-3)	4	**History 305** American Government	(3-0)	3
Genetics 301 Genetics	(3-2)	4	[8]**Elective**		12
[8]**Elective**		6			18
		18			

SENIOR YEAR

Agricultural Engineering 413 Farm Buildings	(2-3)	3	**English 401** Public Speaking	(2-0)	2
Rural Sociology 415 Agricultural Journalism	(2-2)	3	[8]**Elective**		16
[8]**Elective**		12			18
		18			

[8] A minimum of 16 credit hours must be taken as part of the elective work in the junior and senior years from the following.

Poultry Husbandry 301 Market Poultry	(2-2)	3	**Poultry Husbandry 302** Feeding and Brooding	(3-2)	4
Poultry Husbandry 303 Turkey Production	(2-0)	2	**Poultry Husbandry 306** Game Prop. and Management	(2-3)	3
Poultry Husbandry 401 Culling and Management	(3-2)	4	**Poultry Husbandry 402** Poultry Farming	(3-2)	4
Poultry Husbandry 403 Judging	(2-2)	3	**Poultry Husbandry 408** Poultry Meats	(1-3)	2
			Poultry Husbandry 410 Advanced Wild Life Studies	(2-3)	3

GROUP 12. RURAL SOCIOLOGY

SOPHOMORE YEAR

Biology 206 Bacteriology	(2-4)	3	**Agricultural Engineering 201** Farm Machinery	(2-2)	3
Dairy Husbandry 202 Dairying	(2-2)	3	**Economics 403** Principles of Economics	(3-0)	3
English 203 Composition and Literature	(2-0)	2	**English 210** Writing and Discussion	(2-0)	2
Entomology 201 General Entomology	(2-2)	3	**Psychology 207** Psychology	(3-0)	3
Horticulture 201 Plant Propagation	(2-2)	3	**Rural Sociology 204** Introductory Rural Sociology	(3-0)	3
Military Science	(1-2)	1	**Military Science**	(1-2)	1
Elective		3	**Elective**		3
		18			18

First Semester	Credit	Second Semester	Credit
JUNIOR YEAR			
Education 321.....(3-0) Secondary School Methods	3	**Education 322**.....(3-0) Secondary School Administration	3
[9]**Elective**.....	15	[9]**Elective**.....	15
	18		18
SENIOR YEAR			
History 305.....(3-0) American Government	3	**English 401**.....(2-0) Public Speaking	2
Rural Sociology 415.....(2-2) Agricultural Journalism	3	[9]**Elective**.....	16
[9]**Elective**.....	12		18
	18		

[9] A minimum of 13 credit hours must be taken as part of the elective work in the junior and senior years from the following:

Rural Sociology 311.....(3-0) Social Psychology	3	**Rural Sociology 306**.....(3-0) Rural Social Work	3
Rural Sociology 407.....(2-2) Rural Sociology	3	**Rural Sociology 312**.....(3-0) General Sociology	3
		Rural Sociology 404.....(3-0) Rural Organization	3

CURRICULUM IN AGRICULTURAL ADMINISTRATION

FRESHMAN YEAR			
[10]**Agricultural Economics 103**.....(3-0) Economic History of Agriculture	3	[10]**Agricultural Economics 101**.....(4-0) Agricultural Resources	4
Agronomy 105.....(3-2) Crop Production	4	**Animal Husbandry 107**.....(2-4) General Animal Husbandry	3
Biology 211.....(2-4) General Biology	3	**Biology 212**.....(2-4) General Biology	3
English 103.....(3-0) Rhetoric and Composition	3	**English 104**.....(3-0) Rhetoric and Composition	3
Mathematics 101.....(3-0) Algebra	3	**Mathematics 110**.....(3-0) Survey Course in Mathematics	3
Military Science.....(1-2)	1	**Military Science**.....(1-2)	1
Physical Education 101.....(0-2)	R	**Physical Education 102**.....(0-2)	R
	17		17

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

GROUP 1. ACCOUNTING AND STATISTICS

SOPHOMORE YEAR			
Accounting and Statistics 201.....(3-3) Principles of Accounting	4	**Accounting and 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) Writing and Discussion	2
History 305.....(3-0) American Government	3	**Mathematics 202**.....(3-0) Mathematical Theory of Investment	3
Military Science.....(1-2)	1	**Military Science**.....(1-2)	1
Elective.....	5	**Elective**.....	5
	18		18

NOTES.—Recommended Program for students majoring in Statistics:

1. Elect or substitute in the sophomore and junior years Agricultural Economics 314 (Marketing); Engineering Drawing 111 (Mechanical Drawing); Mathematics 103 (Trigonometry); Mathematics 104 (Analytics); Mathematics 203, 204 (Calculus).

2. Elect or substitute in the senior year Accounting and Statistics 503 (Price Analysis) and Accounting and Statistics 504 (Advanced Statistics).

3. Courses in technical agriculture will be approved as substitutions for required courses in Group 1.

[10] One half of the class will take Agricultural Economics 103 the first semester and Agricultural Economics 101 the second semester. The other half will take those subjects in reverse order.

JUNIOR YEAR

First Semester	Credit	Second Semester	Credit
Accounting and Statistics 301....(3-3) Theory and Practice of Accounting	4	**Accounting and Statistics 302....(3-3)** Theory and Practice of Accounting	4
Accounting and Statistics 303....(3-3) Statistical Method	4	**Accounting and Statistics 401....(2-3)** Cost Accounting	3
Accounting and Statistics 403....(2-3) Income Tax	3	**Accounting and Statistics 406....(3-0)** Agricultural and Business Cycles	3
Elective	7	**Elective**	8
	18		18

SENIOR YEAR

Accounting and Statistics 402....(3-0) Accounting Systems	3	**Accounting and Statistics 408....(3-0)** Advanced Auditing	3
Accounting and Statistics 407....(3-3) Auditing	4	**Accounting and Statistics 410....(3-0)** Seminar	3
Agricultural Economics 425.....(3-0) Wholesale and Retail Merchandising	3	**Economics 316.....(3-0)** Business Law	3
English 401.....(2-0) Public Speaking	2	**Elective**	9
Elective	6		18
	18		

GROUP 2. MARKETING AND FINANCE

(Including Agricultural Economics and Farm Management)

SOPHOMORE YEAR

Accounting and Statistics 201....(3-3) Principles of Accounting	4	**Accounting and Statistics 202.....(3-3)** Principles of Accounting	4
Agricultural Economics 312.....(3-0) Agricultural Economics	3	**Agricultural Economics 314.....(3-0)** Marketing	3
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)** Writing and Discussion	2
Military Science.....(1-2)	1	**Military Science.....(1-2)**	1
Elective	5	**Elective**	5
	18		18

NOTES.—1. Electives must be chosen and substitutions petitioned under the advice and direction of the head of the department.

2. Through electives and substitutions, students desiring to prepare for work as marketing specialists should take a number of courses dealing with one farm commodity; those expecting to enter farm management work should take courses in the several fields of technical agriculture.

JUNIOR YEAR

Accounting and Statistics 303....(3-3) Statistical Method	4	**Accounting and Statistics 406....(3-0)** Agricultural and Business Cycles	3
Agricultural Economics 307.....(3-0) Advertising	3	**Agricultural Economics 310.....(3-0)** The Credit System	3
Agricultural Economics 413.....(3-0) Co-operative Marketing	3	**Agricultural Economics 410.....(3-0)** Transportation	3
Economics 311.....(3-0) Money and Banking	3	**Economics 316.....(3-0)** Business Law	3
Elective	5	**History 305.....(3-0)** American Government	3
	18	**Elective**	3
			18

SENIOR YEAR

First Semester	Credit	Second Semester	Credit
Agricultural Economics 425 (3-0) Wholesale and Retail Merchandising	3	Agricultural Economics 423 (3-0) Land Economics	3
Agricultural Economics 427 (3-0) Cotton Marketing	3	Agricultural Economics 426 (3-0) Sales Organization	3
Agricultural Economics 429 (2-0) Economic Policy for Agriculture	2	Agricultural Economics 430 (3-0) Farm Credit	3
Economics 315 (3-0) Economics of Insurance	3	English 401 (2-0) Public Speaking	2
English 317 (2-0) Commercial Correspondence	2	Elective	7
Elective	5		18
	18		

CURRICULUM IN AGRICULTURAL EDUCATION

FRESHMAN YEAR

Agricultural Economics 101 (4-0) Agricultural Resources	4	Agronomy 105 (3-2) Crop Production	4
Animal Husbandry 107 (2-4) General Animal Husbandry	3	Biology 101 (3-4) General Botany	4
Biology 207 (2-4) Zoology	3	Chemistry 102 (3-3) Inorganic Chemistry	4
Chemistry 101 (3-3) Inorganic Chemistry	4	English 104 (3-0) Rhetoric and Composition	3
English 103 (3-0) Rhetoric and Composition	3	Mathematics 109 (3-0) Agricultural Mathematics	3
Military Science (1-2)	1	Military Science (1-2)	1
Physical Education 101 (0-2)	R	Physical Education 102 (0-2)	R
	18		19

SOPHOMORE YEAR

Agricultural Engineering 321 (1-3) Farm Shop	2	Agricultural Economics 312 (3-0) Agricultural Economics	3
Chemistry 212 (3-0) Agricultural Chemistry	3	Agricultural Engineering 201 (2-2) Farm Machinery	3
Chemistry 214 (1-3) Agricultural Analysis	2	Agricultural Engineering 322 (1-3) Farm Shop	2
English 203 (2-0) Composition and Literature	2	Dairy Husbandry 202 (2-2) Dairying	3
History 305 (3-0) American Government	3	English 210 (2-0) Writing and Discussion	2
Horticulture 201 (2-2) Plant Propagation	3	Entomology 204 (2-2) Insecticides	3
Military Science (1-2)	1	Military Science (1-2)	1
Poultry Husbandry 201 (2-2) Poultry Production	3		17
	19		

JUNIOR YEAR

Agricultural Engineering 424 (1-3) Terracing	2	Agricultural Education 302 (3-0) Principles of Agricultural Education	3
Agronomy 315 (2-2) Cotton Production	3	Agronomy 301 (3-2) Soils	4
Animal Husbandry 409 (3-3) Animal Nutrition and Feeding	4	Animal Husbandry 416 (3-2) Livestock Management	4
Genetics 301 (3-2) Genetics	4	Dairy Husbandry 418 (3-2) Dairy Cattle Feeding and Management	4
Psychology 301 (3-0) Educational Psychology	3	Elective	3
Elective	3		18
	19		

SENIOR YEAR

First Semester		Credit	Second Semester		Credit
Agricultural Economics 421 Farm Management	(3-2)	4	**Agricultural Economics 430** Farm Credit	(3-0)	3
Agricultural Education 401 Teaching Vocational Agriculture	(2-6)	4	**Agricultural Education 402** Teaching Vocational Agriculture	(2-6)	4
Horticulture 317 Fruit Production	(2-3)	3	**Agronomy 418** Soil Conservation	(2-3)	3
Poultry Husbandry 401 Culling and Management	(3-2)	4	**English 401** Public Speaking	(2-0)	2
Elective		3	**Landscape Art 301** Introduction to Landscape Art	(3-4)	4
		18	**Elective**		3
					19

CURRICULUM IN AGRICULTURAL ENGINEERING

FRESHMAN YEAR

Chemistry 101 Inorganic Chemistry	(3-3)	4	**Agronomy 105** Crop Production	(3-2)	4
Engineering Drawing 111 Mechanical Drawing	(0-6)	2	**Chemistry 102** Inorganic Chemistry	(3-3)	4
English 103 Rhetoric and Composition	(3-0)	3	**English 104** Rhetoric and Composition	(3-0)	3
Mathematics 102 Algebra	(3-0)	3	**Mathematics 104** Analytics	(4-0)	4
Mathematics 103 Trigonometry	(3-0)	3	**Mechanical Engineering 102** Engineering Problems	(1-2)	2
Mechanical Engineering 101 Engineering Problems	(1-2)	2	**Military Science**	(1-2)	1
Military Science	(1-2)	1	**Physical Education 102**	(0-2)	R
Physical Education 101	(0-2)	R			13
		18			

SOPHOMORE YEAR

Agricultural Engineering 203 Gas Engines	(2-2)	3	**Animal Husbandry 107** General Animal Husbandry	(2-4)	3
Agricultural Engineering 205 Farm Buildings and Structures	(2-3)	3	**Agricultural Engineering 216** Automotive Machinery	(3-3)	4
English 203 Composition and Literature	(2-0)	2	**English 210** Writing and Discussion	(2-0)	2
Mathematics 203 Calculus	(4-0)	4	**Mathematics 204** Calculus	(4-0)	4
Military Science	(1-2)	1	**Military Science**	(1-2)	1
Physics 203 General Physics	(4-3)	5	**Physics 204** General Physics	(4-3)	5
		18			19

JUNIOR YEAR

Agricultural Engineering 201 Farm Machinery	(2-2)	3	**Agronomy 301** Soils	(3-2)	4
Civil Engineering 201 Plane Surveying	(3-4)	4	**Economics 403** Principles of Economics	(3-0)	3
Dairy Husbandry 202 Dairying	(2-2)	3	**History 305** American Government	(3-0)	3
Mechanical Engineering 212 Engineering Mechanics	(3-0)	3	**Elective**		9
Elective		5			19
		18			

SENIOR YEAR

Agricultural Engineering 413 Farm Buildings	(2-3)	3	**Agricultural Engineering 418** Farm Home Utilities	(3-3)	4
Agricultural Engineering 425 Seminar	(1-0)	1	**Agricultural Engineering 426** Seminar	(1-0)	1
Civil Engineering 311 Hydraulics	(3-0)	3	**Agricultural Engineering 428** Irrigation and Drainage	(3-6)	5
English 401 Public Speaking	(2-0)	2	**Civil Engineering 336** Hydraulics Laboratory	(0-2)	1
Elective		10	**Elective**		8
		19			19

CURRICULUM IN LANDSCAPE ART

FRESHMAN YEAR

First Semester		Credit	Second Semester		Credit
Animal Husbandry 107 General Animal Husbandry	(2-4)	3	Agricultural Economics 101 Agricultural Resources	(4-0)	4
Biology 101 General Botany	(3-4)	4	Agronomy 105 Crop Production	(3-2)	4
Chemistry 101 Inorganic Chemistry	(3-3)	4	Biology 213 Plant Physiology	(2-4)	3
English 103 Rhetoric and Composition	(3-0)	3	Chemistry 102 Inorganic Chemistry	(3-3)	4
Mathematics 103 Trigonometry	(3-0)	3	English 104 Rhetoric and Composition	(3-0)	3
Military Science	(1-2)	1	Military Science	(1-2)	1
Physical Education 101	(0-2)	R	Physical Education 102	(0-2)	R
		18			19

SOPHOMORE YEAR

Agricultural Engineering 201 Farm Machinery	(2-2)	3	Architecture 102 Elementary Design	(1-6)	3
Architecture 101 Elementary Design	(1-6)	3	Architecture 110 Freehand Drawing	(0-4)	1
Architecture 109 Freehand Drawing	(0-4)	1	Biology 206 Bacteriology	(2-4)	3
Dairy Husbandry 202 Dairying	(2-2)	3	Economics 403 Principles of Economics	(3-0)	3
English 203 Composition and Literature	(2-0)	2	English 210 Writing and Discussion	(2-0)	2
Entomology 201 General Entomology	(2-2)	3	Poultry Husbandry 306 Game Prop. and Management	(2-3)	3
Horticulture 201 Plant Propagation	(2-2)	3	Psychology 207 Psychology	(3-0)	3
Military Science	(1-2)	1	Military Science	(1-2)	1
		19			19

JUNIOR YEAR

Agricultural Engineering 305 Terracing and Drainage	(2-3)	3	Architecture 206 Freehand Drawing	(0-4)	1
Agronomy 301 Soils	(3-2)	4	Entomology 204 Insecticides	(2-2)	3
Architecture 205 Freehand Drawing	(0-4)	1	[11]Elective		14
[11]Elective		10			18
		18			

SENIOR YEAR

Architecture 305 Freehand Drawing	(0-4)	1	Architecture 306 Freehand Drawing	(0-4)	1
Architecture 415 The Fine Arts	(2-0)	2	Architecture 416 The Fine Arts	(2-0)	2
English 401 Public Speaking	(2-0)	2	History 305 American Government	(3-0)	3
Horticulture 317 Fruit Production	(2-3)	3	Rural Sociology 415 Agricultural Journalism	(2-2)	3
[11]Elective		10	[11]Elective		9
		18			18

[11] A minimum of 16 credit hours must be taken as part of the elective work in the junior and senior years from the following:

Landscape Art 301 Introduction to Landscape Art	(3-4)	4	Landscape Art 304 Landscape Construction	(0-8)	3
Landscape Art 303 Elementary Forestry	(2-2)	3	Landscape Art 306 Ornamentals	(2-2)	3
Landscape Art 401 Advanced Landscape Art	(3-8)	6	Landscape Art 402 Advanced Landscape Art	(3-8)	6
Landscape Art 403 Advanced Ornamentals	(2-4)	3	Landscape Art 404 Floriculture	(2-2)	3

THE SCHOOL OF ARTS AND SCIENCES

CURRICULUM IN LIBERAL ARTS

(Leading to the Degree of Bachelor of Arts)

The Curriculum 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.

FRESHMAN YEAR

First Semester		Credit	Second Semester		Credit
Biology 211 General Biology	(2-4)	3	**Biology 212** General Biology	(2-4)	3
English 103 Rhetoric and Composition	(3-0)	3	**English 104** Rhetoric and Composition	(3-0)	3
History 105 History of the United States	(3-0)	3	**History 106** History of the United States	(3-0)	3
Mathematics 101 Algebra	(3-0)	3	**Mathematics 103** Trigonometry	(3-0)	3
Military Science	(1-2)	1	**Military Science**	(1-2)	1
Modern Language French, German or Spanish	(3-0)	3	**Modern Language** French, German or Spanish	(3-0)	3
Physical Education 101	(0-2)	R	**Physical Education 102**	(0-2)	R
		16			16

SOPHOMORE YEAR

Economics 203 Principles of Economics	(3-0)	3	**Chemistry 101** Inorganic Chemistry	(3-3)	4
English 231 English Literature	(3-0)	3	**Economics 204** Principles of Economics	(3-0)	3
Geology 201 General	(3-0)	3	**English 232** English Literature	(3-0)	3
Military Science	(1-2)	1	**Military Science**	(1-2)	1
Modern Language French, German or Spanish	(3-0)	3	**Modern Language** French, German or Spanish	(3-0)	3
Elective		3	**Elective**		3
		16			17

JUNIOR YEAR

Elective		17	**History 305** American Government	(3-0)	3
			Elective		15
					18

SENIOR YEAR

English 401 Public Speaking	(2-0)	2	**Elective**		18
Elective		16			
		18			

NOTES

1. Transfers who have credit for 6 hours of Botany or Zoology may substitute such credit for Biology 211, 212.
2. Students who have a good high school record in Mathematics and pass a satisfactory placement test may enter at once on Mathematics 102 or 103. Mathematics 102 or 104 must be taken instead of Mathematics 103, if Trigonometry was completed in preparatory school.
3. In the sophomore year a full year of Physics or Chemistry may for sufficient reason be substituted for the required science.
4. Any student passing English 103-104 without making at least six grade points on the course will be required to take other courses in English composition, in addition to other requirements in English, until he has accumulated a total of six grade points in such courses.

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 and Agricultural Economics), Education, English, History, Mathematics, Modern Languages, Physical Education. A suggested program for students majoring in Economics is outlined on page 99.
2. Students who major in Education or Physical Education follow modified Liberal Arts programs outlined on page 104. See also page 75.
3. 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: Accounting and Statistics, Biology, Chemistry, Education, Entomology, Geology, Physics.
4. The remainder of the elective work may be taken in any of the departments indicated above, or other departments of the College, subject to the approval of the Dean of the School of Arts and Sciences.
5. 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.
6. For detailed programs for students majoring in the several fields, 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 adequite reading knowledge of that language.

STUDIES PREPARATORY TO LAW

Students planning to enter Law School after only two years of college study should matriculate in the curriculum in Liberal Arts, and take the following program in the freshman and sophomore years:

FRESHMAN YEAR	SOPHOMORE YEAR
English 103-104 Rhetoric and Composition	**English 231-232** English Literature
History 105-106 United States History	**Economics 203-204** Principles of Economics
Biology 211-212 General Biology	**History 211** Comparative Government
Mathematics 101-103 Algebra; Trigonometry	**History 213-214** History of England
An Approved Elective	**History 305** American Government
Military Science	**Accounting and Statistics 201-202** Principles of Accounting
Physical Education 101-102	**Military Science**

The above program covers the *minimum* requirement for admission to Law School. If possible, the student should follow the regular curriculum 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 Curriculum in Liberal Arts.

SOPHOMORE YEAR

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

JUNIOR YEAR

First Semester		Credit	Second Semester		Credit
Accounting and Statistics 303 Statistical Method	(3-3)	4	**Economics 316** Business Law	(3-0)	3
Economics 311 Money and Banking	(3-0)	3	**Economics 318** Labor Problems	(3-0)	3
Psychology 207 Psychology	(3-0)	3	**History 322** Industrial History of the U. S.	(3-0)	3
Elective		7	**Elective**		8
		17			17

SENIOR YEAR

Economics 315 Insurance	(3-0)	3	**Economics 409** Foreign Trade and Exchange	(3-0)	3
Economics 413 Advanced Economic Theory	(3-0)	3	**Economics 412** Public Finance and Taxation	(3-0)	3
English 401 Public Speaking	(2-0)	2	**Economics 414** Advanced Economic Theory	(3-0)	3
Elective		10	**History 305** American Government	(3-0)	3
		18	**Elective**		6
					18

Training based on economics is needed not only by those who expect to teach or do research work in the field of economics, but by those who look forward to careers in accountancy, general business, insurance, and several forms of governmental service. The program outlined above will be adapted by substitutions and by proper choice of minor subject and electives to prepare for the chosen objective. To that end, certain courses in Accounting and Statistics and Agricultural Economics may be used, with the approval of the head of the department of Economics, as part of the major subject.

The minor subject should be chosen in conference with the head of the department in accordance with the regulations on page 98 and with reference to the student's chosen objective in the field of economics.

Suggested electives in the junior and senior years:

Accounting and Statistics 301-302 (Theory and Practice of Accounting), Accounting and Statistics 401 (Cost Accounting), Accounting and Statistics 403 (Income Tax), Accounting and Statistics 406 (Agricultural and Business Cycles), Accounting and Statistics 407 (Auditing), Agricultural Economics 312 (Agricultural Economics), Agricultural Economics 314 (Marketing), Agricultural Economics 425 (Wholesale and Retail Merchandising), Agricultural Economics 426 (Sales Organization), Agricultural Economics 429 (Economic Policy for Agriculture), Agricultural Economics 430 (Farm Credit), Economics 408 (Corporation Finance), Economics 416 (Public Utility Economics), Economics 420 (Principles of Investment), Economics 421 (Government and Industry), Economics 422 (Banking Principles and Practices), Economics 423 (Advertising), Economics 424 (Modern Transportation), English 307 (Technical Writing), English 317 (Commercial Correspondence), History 423-424 (American Foreign Relations), Mathematics 202 (Mathematical Theory of Investment), Mechanical Engineering 438 (Marketing Industrial Products), Military Science, Municipal and Sanitary Engineering 408 (Municipal Administration.

CURRICULA IN SCIENCE

The curricula in Science are 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 other 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).

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.

Programs of studies for students majoring in Geology are given on page 102.

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, will be required.

3. Any student passing English 103-104 without making at least six grade points on the course will be required to take other courses in English composition, in addition to other requirements in English, until he has accumulated a total of six grade points in such courses.

4. For detailed programs for students majoring in the several fields, 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 German 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 or 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.

FOR STUDENTS MAJORING IN THE BIOLOGICAL SCIENCES

FRESHMAN YEAR

First Semester		Credit	Second Semester		Credit
Biology 203 Zoology	(2-4)	3	Biology 204 Zoology	(2-4)	3
Chemistry 103 Inorganic Chemistry	(3-4)	4	Chemistry 104 Inorganic Chemistry	(3-4)	4
English 103 Rhetoric and Composition	(3-0)	3	English 104 Rhetoric and Composition	(3-0)	3
Mathematics 101 Algebra	(3-0)	3	Mathematics 103 Trigonometry	(3-0)	3
Military Science	(1-2)	1	Military Science	(1-2)	1
Modern Language French or German	(3-0)	3	Modern Language French or German	(3-0)	3
Physical Education 101	(0-2)	R	Physical Education 102	(0-2)	R
		17			17

SOPHOMORE YEAR

First Semester		Credit	Second Semester		Credit
English 231	(3-0)	3	English 232	(3-0)	3
English Literature			English Literature		
Military Science	(1-2)	1	Military Science	(1-2)	1
Modern Language	(3-0)	3	Modern Language	(3-0)	3
French or German			French or German		
Physics 201	(3-2)	4	Physics 202	(3-2)	4
College Physics			College Physics		
Elective		7	Elective		7
		18			18

JUNIOR YEAR

Economics 403	(3-0)	3	History 305	(3-0)	3
Principles of Economics			American Government		
Elective		15	Elective		15
		18			18

SENIOR YEAR

English 401	(2-0)	2	Elective		18
Public Speaking					
Elective		16			
		18			

STUDIES PREPARATORY TO MEDICINE

Students planning to enter upon the study of medicine should enroll in the curriculum for students majoring in the biological sciences and take the following program of studies in the freshman and sophomore years:

Freshman Year

As outlined on page 100.

Sophomore Year

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

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

The above program covers the *minimum* requirements for admission to Medical School. If possible the student should complete either the three- or the four-year program outlined for them in the "Handbook of The School of Arts and Sciences" before beginning the study of medicine. Students who complete at least this three-year program which includes the minimum pre-medical requirements as 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.

FOR STUDENTS MAJORING IN THE PHYSICAL SCIENCES

FRESHMAN YEAR

First Semester		Credit	Second Semester		Credit
Biology 203 Zoology	(2-4)	3	**Biology 204** Zoology	(2-4)	3
Chemistry 103 Inorganic Chemistry	(3-4)	4	**Chemistry 104** Inorganic Chemistry	(3-4)	4
English 103 Rhetoric and Composition	(3-0)	3	**Engineering Drawing 111** Mechanical Drawing	(0-6)	2
Mathematics 102 Algebra	(3-0)	3	**English 104** Rhetoric and Composition	(3-0)	3
Mathematics 103 Trigonometry	(3-0)	3	**Mathematics 104** Analytics	(4-0)	4
Military Science	(1-2)	1	**Military Science**	(1-2)	1
Physical Education 101	(0-2)	R	**Physical Education 102**	(0-2)	R
		17			17

SOPHOMORE YEAR

Engineering Drawing 124 Descriptive Geometry	(2-2)	3	**English 210** Writing and Discussion	(2-0)	2
English 203 Composition and Literature	(2-0)	2	**Mathematics 204** Calculus	(4-0)	4
Mathematics 203 Calculus	(4-0)	4	**Modern Language 104** Beginning German	(3-0)	3
Modern Language 103 Beginning German	(3-0)	3	**Military Science**	(1-2)	1
Military Science	(1-2)	1	**Elective**		8
Elective		5			18
		18			

JUNIOR YEAR

Modern Language 203 Intermediate German	(3-0)	3	**Modern Language 204** Intermediate German	(3-0)	3
Physics 203 General Physics	(4-3)	5	**Physics 204** General Physics	(4-3)	5
Elective		10	**Elective**		10
		18			18

SENIOR YEAR

History 305 American Government	(3-0)	3	**Economics 403** Principles of Economics	(3-0)	3
English 307 Technical Writing	(2-0)	2	**English 401** Public Speaking	(2-0)	2
Elective		13	**Elective**		13
		18			18

PROGRAM FOR STUDENTS MAJORING IN GEOLOGY

FRESHMAN YEAR

(As for all physical science majors)

SOPHOMORE YEAR

Chemistry 207 Quantitative Analysis	(2-3)	3	**Chemistry 342** Physical Chemistry	(3-4)	4
Engineering Drawing 124 Descriptive Geometry	(2-2)	3	**English 210** Writing and Discussion	(2-0)	2
Geology 203 Mineralogy and Rock Study	(3-4)	4	**Geology 204** Mineralogy and Rock Study	(3-4)	4
Mathematics 203 Calculus	(4-0)	4	**Mathematics 204** Calculus	(4-0)	4
Modern Language 103 Beginning German	(3-0)	3	**Modern Language 104** Beginning German	(3-0)	3
Military Science	(1-2)	1	**Military Science**	(1-2)	1
		18			18

JUNIOR YEAR

First Semester		Credit	Second Semester		Credit
Geology 301 Fundamentals of Geology	(4-4)	5	**Geology 302** Fundamentals of Geology	(4-4)	5
Geology 303 Petrography and Petrology	(3-4)	4	**Geology 304** Petrography and Petrology	(3-4)	4
Modern Language 203 Intermediate German	(3-0)	3	**Modern Language 204** Intermediate German	(3-0)	3
Physics 203 General Physics	(4-3)	5	**Physics 204** General Physics	(4-3)	5
Elective		3	**Elective**		3
		20			20

SUMMER WORK

Geology 300s, Field Geology, six weeks, credit 7.

SENIOR YEAR

Economics 403 Principles of Economics	(3-0)	3	**English 307** Technical Writing	(2-0)	2
English 202 Composition and Literature	(2-0)	2	**Geology 306** Paleontology	(3-3)	4
Geology 305 Paleontology	(3-3)	4	**Geology 404** Geology of Petroleum	(3-0)	3
Geology 312 Structural Geology	(3-4)	4	**Geology 406** Economic Geology	(4-0)	4
Geology 405 Economic Geology	(4-0)	4	**History 305** American Government	(3-0)	3
Elective		3	**Elective**		3
		20			19

PROGRAM FOR STUDENTS MAJORING IN GEOLOGY

(CHEMISTRY OPTION)

FRESHMAN YEAR

(As for all physical science majors)

SOPHOMORE YEAR

Chemistry 205 Qualitative Analysis	(3-6)	5	**Chemical Engineering 202** Elementary Quantitative Analysis	(2-8)	5
Geology 203 Mineralogy and Rock Study	(3-4)	4	**English 210** Writing and Discussion	(2-0)	2
Mathematics 203 Calculus	(4-0)	4	**Geology 204** Mineralogy and Rock Study	(3-4)	4
Modern Language 103 Beginning German	(3-0)	3	**Mathematics 204** Calculus	(4-0)	4
Military Science	(1-2)	1	**Modern Language 104** Beginning German	(3-0)	3
		17	**Military Science**	(1-2)	1
					19

JUNIOR YEAR

Chemistry 301 Organic Chemistry	(3-4)	4	**Chemistry 302** Organic Chemistry	(3-4)	4
Geology 301 Fundamentals of Geology	(4-4)	5	**Geology 302** Fundamentals of Geology	(4-4)	5
Modern Language 203 Intermediate German	(3-0)	3	**Modern Language 204** Intermediate German	(3-0)	3
Physics 203 General Physics	(4-3)	5	**Physics 204** General Physics	(4-3)	5
Elective		3	**Elective**		3
		20			20

SUMMER WORK

Geology 300s, Field Geology, six weeks, credit 7.

SENIOR YEAR

First Semester		Credit	Second Semester		Credit
Chemistry 323 Physical Chemistry	(3-3)	4	Chemistry 324 Physical Chemistry	(3-3)	4
Economics 403 Principles of Economics	(3-0)	3	English 307 Technical Writing	(2-0)	2
English 203 Composition and Literature	(2-0)	2	Geology 304 Petrography and Petrology	(3-4)	4
Geology 303 Petrography and Petrology	(3-4)	4	Geology 404 Geology of Petroleum	(3-0)	3
Geology 312 Structural Geology	(3-4)	4	History 305 American Government	(3-0)	3
Elective		3	Elective		3
		20			19

PREPARATION FOR TEACHING

Prospective teachers of other lines than Vocational Agriculture and Industrial Education should refer to page 75 for information concerning certification. Those who major in Education or Physical Education follow a modified Liberal Arts program; are required to elect a sequence of courses preparing for some one of the usual high school teaching lines; and if necessary to this end may omit the required foreign language, in which case they will receive the B.S. rather than the B.A. degree on the completion of requirements.

PROGRAM FOR EDUCATION MAJORS

FRESHMAN YEAR

Biology 211 General Biology	(2-4)	3	Biology 212 General Biology	(2-4)	3
English 103 Rhetoric and Composition	(3-0)	3	English 104 Rhetoric and Composition	(3-0)	3
History 105 History of United States	(3-0)	3	History 106 History of United States	(3-0)	3
Mathematics 101 Algebra	(3-0)	3	Mathematics 103 Plane Trigonometry	(3-0)	3
Military Science	(1-2)	1	Military Science	(1-2)	1
[12]Modern Language French, German or Spanish	(3-0)	3	[12]Modern Language French, German or Spanish	(3-0)	3
Physical Education 101	(0-2)	R	Physical Education 102	(0-2)	R
		16			16

SOPHOMORE YEAR

Economics 203 Principles of Economics	(3-0)	3	Chemistry 101 Inorganic Chemistry	(3-3)	4
Education 121 An Introduction to Education	(3-0)	3	Economics 204 Principles of Economics	(3-0)	3
English 231 English Literature	(3-0)	3	English 232 English Literature	(3-0)	3
Geology 201 General	(3-0)	3	Military Science	(1-2)	1
Military Science	(1-2)	1	[12]Modern Language French, German or Spanish	(3-0)	3
[12]Modern Language French, German or Spanish	(3-0)	3	Psychology 301 Educational Psychology	(3-0)	3
		16			17

[12] Courses preparatory to the student's prospective field of teaching may be substituted for the required foreign language. Lists of such courses are given in the Handbook of the School of Arts and Sciences.

JUNIOR YEAR

First Semester		Credit	Second Semester		Credit
Education 321 Secondary School Methods	(3-0)	3	**Education 322** Secondary School Administration	(3-0)	3
Physical Education 207 Health Education	(3-0)	3	**History 305** American Government	(3-0)	3
Rural Sociology 311 Social Psychology	(3-0)	3	**Physical Education 306** Public School Physical Education	(3-2)	4
Elective		8	**Elective**		8
		17			18

SENIOR YEAR

Education 426 Tests and Measurements	(3-0)	3	**Education 430** Curriculum Construction	(3-0)	3
English 401 Public Speaking	(2-0)	2	[13]**Elective**		15
[13]**Elective**		13			18
		18			

PROGRAM FOR PHYSICAL EDUCATION MAJORS

FRESHMAN YEAR

Biology 203 Zoology	(2-4)	3	**Biology 204** Zoology	(2-4)	3
English 103 Rhetoric and Composition	(3-0)	3	**Education 121** An Introduction to Education	(3-0)	3
History 105 History of the United States	(3-0)	3	**English 104** Rhetoric and Composition	(3-0)	3
Military Science	(1-2)	1	**History 106** History of the United States	(3-0)	3
[14]**Modern Language** French, German or Spanish	(3-0)	3	**Military Science**	(1-2)	1
Rural Sociology 201 Introduction to Social Problems	(3-0)	3	[14]**Modern Language** French, German or Spanish	(3-0)	3
Physical Education 101	(0-2)	R	**Physical Education 102**	(0-2)	R
		16			16

SOPHOMORE YEAR

Biology 341 General Physiology	(3-4)	4	**Chemistry 101** Inorganic Chemistry	(3-3)	4
Economics 203 Principles of Economics	(3-0)	3	**Economics 204** Principles of Economics	(3-0)	3
English 231 English Literature	(3-0)	3	**English 232** English Literature	(3-0)	3
Military Science	(1-2)	1	**Military Science**	(1-2)	1
[14]**Modern Language** French, German or Spanish	(3-0)	3	[14]**Modern Language** French, German or Spanish	(3-0)	3
Physical Education 207 Health Education	(3-0)	3	**Physical Education 208** Athletic Training	(3-0)	3
		17			17

JUNIOR YEAR

Education 321 Secondary School Methods	(3-0)	3	**Education 322** Secondary School Administration	(3-0)	3
Physical Education 305 Public School Physical Education	(3-2)	4	**History 305** American Government	(3-0)	3
Physical Education 311 Fundamentals of Athletic Coaching	(3-2)	4	**Physical Education 306** Public School Physical Education	(3-2)	4
Psychology 301 Educational Psychology	(3-0)	3	**Physical Education 312** Fundamentals of Athletic Coaching	(3-2)	4
Elective		3	**Elective**		3
		17			17

[13] Six hours of senior elective must be in education or educational psychology.
[14] Courses preparatory to the student's prospective field of teaching may be substituted for the required foreign language. Lists of such courses are given in the Handbook of the School of Arts and Sciences.

SENIOR YEAR

First Semester	Credit	Second Semester	Credit
English 401.....(2-0) Public Speaking	2	**Physical Education 402**.....(3-2) Theory and Practice of Athletic Coaching	4
Physical Education 401.....(3-2) Theory and Practice of Athletic Coaching	4	**Physical Education 404**.....(3-2) Organization and Administration of Physical Education	4
Physical Education 403.....(3-2) Organization and Administration of Physical Education	4	**Elective**.....	10
Elective.....	8		18
	18		

THE SCHOOL OF ENGINEERING

CURRICULUM IN ARCHITECTURE

FRESHMAN YEAR

First Semester		Credit	Second Semester		Credit
Architecture 101 Elementary Design	(1-6)	3	Architecture 102 Elementary Design	(1-6)	3
Architecture 109 Freehand Drawing	(0-4)	1	Architecture 110 Freehand Drawing	(0-4)	1
Architecture 111 Architectural Graphics	(2-3)	3	Architecture 112 Architectural Graphics	(1-4)	2
English 103 Rhetoric and Composition	(3-0)	3	Chemistry 101 Inorganic Chemistry	(3-3)	4
Mathematics 102 Algebra	(3-0)	3	English 104 Rhetoric and Composition	(3-0)	3
Mathematics 103 Trigonometry	(3-0)	3	Mathematics 104 Analytics	(4-0)	4
Mechanical Engineering 101 Engineering Problems	(1-2)	2	Mechanical Engineering 102 Engineering Problems	(1-2)	2
Military Science	(1-2)	1	Military Science	(1-2)	1
Physical Education 101	(0-2)	R	Physical Education 102	(0-2)	R
		19			20

SOPHOMORE YEAR

Architecture 201 Elementary Design	(1-10)	4	Architecture 202 Elementary Design	(1-10)	4
Architecture 205 Freehand Drawing	(0-4)	1	Architecture 206 Freehand Drawing	(0-4)	1
Architecture 207 History of Architecture	(3-0)	3	Architecture 208 History of Architecture	(3-0)	3
English 203 Composition and Literature	(2-0)	2	English 210 Writing and Discussion	(2-0)	2
Military Science	(1-2)	1	Military Science	(1-2)	1
Modern Language French or German	(3-0)	3	Modern Language French or German	(3-0)	3
Physics 201 College Physics	(3-2)	4	Physics 202 College Physics	(3-2)	4
		18			18

JUNIOR YEAR

Architecture 301 Intermediate Design	(0-16)	5	Architecture 302 Intermediate Design	(0-16)	5
Architecture 305 Freehand Drawing	(0-4)	1	Architecture 306 Freehand Drawing	(0-4)	1
Architecture 313 Mechanics of Materials	(4-0)	4	Architecture 314 Stress Analysis	(2-3)	3
Architecture 315 History of Architecture	(2-0)	2	Architecture 316 History of Architecture	(2-0)	2
Modern Language French or German	(3-0)	3	Civil Engineering 206 Surveying	(1-3)	2
Elective		3	Modern Language French or German	(3-0)	3
		18	Elective		3
					19

SENIOR YEAR

Architecture 401 Intermediate Design	(0-18)	6	Architecture 402 Intermediate Design	(0-18)	6
Architecture 415 The Fine Arts	(2-0)	2	Architecture 412 Steel Structures	(2-3)	3
Architecture 417 Concrete Structures	(3-0)	3	Architecture 416 The Fine Arts	(2-0)	2
History 305 American Government	(3-0)	3	[15]Electrical Engineering 436 Elec. Equip. of Buildings	(3-0)	3
Elective		6	Elective		6
		20			20

[15] Offered in alternate years. Not offered in 1937-38.

FIFTH YEAR

First Semester		Credit	Second Semester		Credit
Architecture 451 Advanced Design	(0-24)	8	**Architecture 452** Advanced Design	(2-24)	10
Architecture 453 Building Materials	(2-3)	3	**Architecture 454** Building Practice	(2-3)	3
Economics 403 Principles of Economics	(3-0)	3	**English 401a** Public Speaking	(0-3)	1
Mechanical Engineering 335 Mech. Equip. of Buildings	(3-0)	3	**Elective**		6
Elective		3			20
		20			

CURRICULUM IN ARCHITECTURAL ENGINEERING

FRESHMAN YEAR

Same as Architecture

SOPHOMORE YEAR

Architecture 201 Elementary Design	(1-10)	4	**Architecture 202** Elementary Design	(1-10)	4
Architecture 205 Freehand Drawing	(0-4)	1	**Architecture 206** Freehand Drawing	(0-4)	1
Architecture 207 History of Architecture	(3-0)	3	**Architecture 208** History of Architecture	(3-0)	3
Civil Engineering 206 Surveying	(1-3)	2	**Mathematics 204** Calculus	(4-0)	4
Mathematics 203 Calculus	(4-0)	4	**Mechanical Engineering 212** Engineering Mechanics	(3-0)	3
Physics 203 General Physics	(4-3)	5	**Physics 204** General Physics	(4-3)	5
Military Science	(1-2)	1	**Military Science**	(1-2)	1
		20			21

JUNIOR YEAR

Architecture 315 History of Architecture	(2-0)	2	**Architecture 316** History of Architecture	(2-0)	2
Civil Engineering 305 Mechanics of Materials	(4-0)	4	**Civil Engineering 311** Hydraulics	(3-0)	3
Civil Engineering 345 Stresses in Structures	(3-3)	4	**Civil Engineering 315** Materials Laboratory	(0-2)	1
English 203 Composition and Literature	(2-0)	2	**Civil Engineering 346** Structural Analysis and Design	(3-3)	4
Mechanical Engineering 335 Mech. Equip. of Buildings	(3-0)	3	[16]**Electrical Engineering 436** Elec. Equip. of Buildings	(3-0)	3
Elective		5	**English 210** Writing and Discussion	(2-0)	2
		20	**Elective**		3
					18

SENIOR YEAR

Architecture 415 The Fine Arts	(2-0)	2	**Architecture 412** Steel Structures	(2-3)	3
Architecture 417 Concrete Structures	(3-0)	3	**Architecture 416** The Fine Arts	(2-0)	2
Architecture 453 Building Materials	(2-3)	3	**Architecture 454** Building Practice	(2-3)	3
English 401a Public Speaking	(0-3)	1	**Civil Engineering 414** Reinforced Concrete Design	(2-3)	3
History 305 American Government	(3-0)	3	**Economics 403** Principles	(3-0)	3
Elective		6	**Municipal and San. Eng. 408** Municipal Administration	(3-0)	3
		18	**Elective**		3
					20

[16] Offered in alternate years. Not offered in 1937-38.

CURRICULA IN ENGINEERING

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

FRESHMAN YEAR

First Semester		Credit	Second Semester		Credit
Chemistry 101 Inorganic Chemistry	(3-3)	4	**Chemistry 102** Inorganic Chemistry	(3-3)	4
Engineering Drawing 111 Mechanical Drawing	(0-6)	2	**Engineering Drawing 112** Mechanical Drawing	(0-4)	1
English 103 Rhetoric and Composition	(3-0)	3	**Engineering Drawing 124** Descriptive Geometry	(2-2)	3
Mathematics 102 Algebra	(3-0)	3	**English 104** Rhetoric and Composition	(3-0)	3
Mathematics 103 Trigonometry	(3-0)	3	**Mathematics 104** Analytics	(4-0)	4
Mechanical Engineering 101 Engineering Problems	(1-2)	2	**Mechanical Engineering 102** Engineering Problems	(1-2)	2
Military Science	(1-2)	1	**Military Science**	(1-2)	1
Physical Education 101	(0-2)	R	**Physical Education 102**	(0-2)	R
		18			18

CURRICULUM IN CHEMICAL ENGINEERING

(Gas, Petroleum Refining and Cotton Seed Oil)

SOPHOMORE YEAR

Chemistry 205 Qualitative Analysis	(3-6)	5	**Chemical Engineering 202** Quantitative Analysis	(2-8)	5
English 203 Composition and Literature	(2-0)	2	**Economics 403** Principles of Economics	(3-0)	3
History 305 American Government	(3-0)	3	**English 210** Writing and Discussion	(2-0)	2
Mathematics 203 Calculus	(4-0)	4	**Mathematics 204** Calculus	(4-0)	4
Military Science	(1-2)	1	**Military Science**	(1-2)	1
Physics 203 General Physics	(4-3)	5	**Physics 204** General Physics	(4-3)	5
		20			20

SUMMER WORK

Chemical Engineering 400s, Industrial Analysis, six weeks, credit 4.

JUNIOR YEAR

Chemistry 301 Organic Chemistry	(3-4)	4	**Chemical Engineering 304** Unit Operations	(3-3)	4
Chemistry 323 Physical Chemistry	(3-3)	4	**Chemistry 302** Organic Chemistry	(3-4)	4
Mechanical Engineering 212 Engineering Mechanics	(3-0)	3	**Chemistry 324** Physical Chemistry	(3-3)	4
Mechanical Engineering 320 Thermodynamics	(5-0)	5	**Civil Engineering 305** Mechanics of Materials	(4-0)	4
[17]**Elective**		3	**Civil Engineering 315** Materials Laboratory	(0-2)	1
		19	[17]**Elective**		3
					20

[17] Students not in advanced course R. O. T. C. should substitute German.

SENIOR YEAR

(For the Class of 1939 and thereafter. Others follow 60th Catalogue.)

First Semester		Credit	Second Semester		Credit
Chemical Engineering 409 Oil and Gas Technology	(3-3)	4	**Chemical Engineering 424** Unit Operations	(3-3)	4
Chemical Engineering 423 Unit Operations	(3-3)	4	**Chemical Engineering 426** Design	(3-3)	4
Electrical Engineering 305 Electrical Machinery	(3-3)	4	**Chemistry 438** Seminar	(1-0)	1
English 401a Public Speaking	(0-3)	1	**Mechanical Engineering 404** Engineering Laboratory	(1-3)	2
Mechanical Engineering 403 Engineering Laboratory	(1-3)	2	**Mechanical Engineering 436** Adv. Heat., Vent. and Air Con.	(4-0)	4
[18]**Elective**		3	[18]**Elective**		3
		18			18

CURRICULUM IN CIVIL ENGINEERING

FRESHMAN YEAR

(See page 109)

SOPHOMORE YEAR

Civil Engineering 201 Surveying	(3-4)	4	**Civil Engineering 202** Railroad and Highway Eng.	(2-6)	4
English 203 Composition and Literature	(2-0)	2	**English 210** Writing and Discussion	(2-0)	2
History 305 American Government	(3-0)	3	**Mathematics 204** Calculus	(4-0)	4
Mathematics 203 Calculus	(4-0)	4	**Mechanical Engineering 220** Engineering Mechanics	(4-0)	4
Military Science	(1-2)	1	**Military Science**	(1-2)	1
Physics 203 General Physics	(4-3)	5	**Physics 204** General Physics	(4-3)	5
		19			20

SUMMER WORK

Civil Engineering 300s, Field Practice, six weeks, credit 4.

JUNIOR YEAR

Civil Engineering 305 Mechanics of Materials	(4-0)	4	**Civil Engineering 311** Hydraulics	(3-0)	3
Civil Engineering 315 Materials Laboratory	(0-2)	1	**Civil Engineering 336** Hydraulics Laboratory	(0-2)	1
Civil Engineering 335 Estimating and Drafting	(0-4)	1	**Civil Engineering 344** Reinforced Concrete	(2-0)	2
Civil Engineering 345 Stresses in Structures	(3-3)	4	**Civil Engineering 346** Structural Analysis and Design	(3-3)	4
Economics 403 Principles of Economics	(3-0)	3	**Civil Engineering 448** Engineering Economy	(3-0)	3
Electrical Engineering 305 Electrical Machinery	(3-3)	4	**Mechanical Engineering 324** Steam and Gas Power	(3-0)	3
Elective		3	**Elective**		3
		20			19

[18] Students not in advanced course R. O. T. C. should substitute German.

SENIOR YEAR

First Semester	Credit	Second Semester	Credit
NOTE.—By proper choice of technical electives from the list below students may specialize to some extent in Highway, Hydraulic, Municipal, Sanitary, or Structural Engineering.			
Civil Engineering 407 (3-0) Roads and Pavements	3	**Civil Engineering 414** (2-3) Reinforced Concrete Design	3
Civil Engineering 465 (2-2) Masonry and Foundations	3	**Civil Engineering 443** (0-4) Materials of Construction	1
Civil Engineering 467 (2-4) Steel Bridge Structures	3	**Civil Engineering 466** (2-0) Professional Relations	2
Municipal and Sanitary Engineering 401 (3-0) Sewerage and Sewage Disposal	3	**English 401a** (0-3) Public Speaking	1
[19]Technical Electives	6	**Municipal and Sanitary Engineering 402** (3-0) Water Supply and Purification	3
Elective	3	**[19]Technical Electives**	6
	21	**Elective**	3
			19

[19] Technical electives to be chosen from the following with at least six credits in Civil Engineering subjects:

Civil Engineering 417 (2-3) Bituminous Materials	3	**Civil Engineering 452** (2-3) Structural Engineering	3
Civil Engineering 463 (3-0) Hydrology	3	**Civil Engineering 456** (2-3) Highway Adm. and Design	3
Civil Engineering 469 (2-3) Steel Building Structures	3	**Civil Engineering 458** (3-0) Hydraulic Engineering	3
Municipal and Sanitary Engineering 403 (1-5) Sanitary Design	3	**Municipal and Sanitary Engineering 408** (3-0) Municipal Administration	3
Municipal and Sanitary Engineering 406 (3-0) Sanitation and Public Health	3	**Municipal and Sanitary Engineering 412** (1-5) Sanitary Laboratory	3

CURRICULUM IN ELECTRICAL ENGINEERING

FRESHMAN YEAR

(See page 109)

SOPHOMORE YEAR

Civil Engineering 206 (1-3) Surveying	2	**Electrical Engineering 208** (3-6) Direct Current Machinery	5
Electrical Engineering 201 (3-6) Electricity and Magnetism	5	**English 210** (2-0) Writing and Discussion	2
English 203 (2-0) Composition and Literature	2	**Mathematics 204** (4-0) Calculus	4
Mathematics 203 (4-0) Calculus	4	**Mechanical Engineering 212** (3-0) Engineering Mechanics	3
Mechanical Engineering 201 (0-3) Welding and Foundry	1	**Mechanical Engineering 309** (0-3) Machine Shop	1
Military Science (1-2)	1	**Military Science** (1-2)	1
Physics 207 (3-3)	4	**Physics 208** (3-3) General Physics	4
	19		20

JUNIOR YEAR

Civil Engineering 305 (4-0) Mechanics of Materials	4	**Economics 403** (3-0) Principles of Economics	3
Civil Engineering 315 (0-2) Materials Laboratory	1	**Electrical Engineering 316** (5-0) Circuit and Field Theory	5
Electrical Engineering 315 (3-6) Alternating Currents	5	**Electrical Engineering 318** (0-6) Electrical Measurements	2
Mathematics 305 (2-0) Differential Equations	2	**History 305** (3-0) American Government	3
Mechanical Engineering 313 (3-0) Engineering Mechanics	3	**[20]Mechanical Engineering 323** (4-0) Thermodynamics	4
Mechanical Engineering 337 (0-3) Kinematic Drawing	1	**Elective**	3
Elective	3		20
	19		

SENIOR YEAR

First Semester	Credit	Second Semester	Credit
Electrical Engineering 401 (4-0) Alternating Current Machinery	4	Electrical Engineering 402 (4-0) Alternating Current Machinery	4
Electrical Engineering 403 (1-6) Alternating Current Laboratory	3	Electrical Engineering 404 (1-6) Alternating Current Laboratory	3
Electrical Engineering 405 (3-0) Electric Transmission	3	Electrical Engineering 432 (3-0) Public Utility Problems	3
Electrical Engineering 431 (2-0) Engineering Administration	2	English 401a (0-3) Public Speaking	1
[20]Mechanical Engineering 403 (1-3) Engineering Laboratory	2	[20]Mechanical Engineering 404 (1-3) Engineering Laboratory	2
Elective	3	Elective	3
[21]Technical Elective	3	[21]Technical Elective	4
	20		20

[20] Students whose major interest lies in Communication Arts may substitute Physics 301, Heat, (3-3) for Mechanical Engineering 323, Thermodynamics, (4-0). They may make substitutions for Mechanical Engineering 403-404, Engineering Laboratory, on condition that they include in their course of study not less than 10 credit hours from technical electives marked *.

[21] The technical electives of the senior year are to be chosen from the following:

Civil Engineering 311 (3-0) Hydraulics	3	*Electrical Engineering 310 (2-2) Communication Engineering	3
*Electrical Engineering 409 (3-3) Radio Communication	4	Electrical Engineering 406 (2-2) Elec. Distribution and Transmission	3
Electrical Engineering 426 (3-3) Illumination Engineering	4	*Electrical Engineering 410 (2-3) Electron Tubes	3
Geology 201 (3-0) General	3	Electrical Engineering 416 (3-0) Motor Applications	3
*Physics 407 (3-0) Geophysics	3	*Electrical Engineering 428 (3-3) Communication Circuits	4
*Physics 409 (3-0) Acoustics	3	Mechanical Engineering 407 (3-0) Mechanical Refrigeration	3

CURRICULUM IN ENGINEERING ADMINISTRATION

The requirements for the freshman and sophomore years are met by the first two years in the curriculum in Civil Engineering, Electrical Engineering, or Mechanical Engineering. The curriculum for the junior year will need to be modified slightly for those who have completed the work of the first two years in Civil Engineering or Electrical Engineering:

Before the end of the sophomore year, written notice of intention to take the work in Engineering Administration should be submitted to the Dean of Engineering who will act as the student's advisor in regard to choice of electives and related matters. Some modification of the curriculum of the junior year may be necessary in order to provide properly for taking the prerequisites for certain courses planned for inclusion as electives in the senior year. For this reason a tentative list of studies for the last two years is to be submitted to the Dean of Engineering for approval at or before registration for the first semester of the junior year.

JUNIOR YEAR

First Semester	Credit	Second Semester	Credit
Civil Engineering 305 (4-0) Mechanics of Materials	4	**Accounting & Statistics 409** (3-0) Survey of Accounting Principles	3
Civil Engineering 345 (3-3) Stresses in Structures or		**Civil Engineering 311** (3-0) Hydraulics	3
Mechanical Engineering 323 (4-0) Thermodynamics	4	**Economics 316** (3-0) Business Law	3
Economics 403 (3-0) Principles	3	**Electrical Engineering 308** (3-3) Electrical Machinery	4
[23]**Electrical Engineering 307** (3-3) Electrical Machinery	4	[22]**Technical Elective**	3
Elective	3	**Elective**	3
	18		19

SENIOR YEAR

English 401a (0-3) Public Speaking	1	**Economics 318** (3-0) Labor Problems	3
[24]**History 305** (3-0) American Government	3	**Economics 408** (3-0) Corporation Finance	3
[22]**Technical Elective**	12	[22]**Technical Elective**	10
Elective	3	**Elective**	3
	19		19

[22] Technical Electives to be selected with the approval of the Dean of Engineering from the fields of engineering and economics. Not less than 16 credit hours must be technical engineering courses, preferably of senior grade selected from at least two departments.
[23] The student who has credit for Electrical Engineering 208 must substitute an approved subject for Electrical Engineering 307.
[24] The student whose sophomore curriculum required History 305 must substitute an approved subject for that course.

CURRICULUM IN INDUSTRIAL EDUCATION

GROUP I. FOR VOCATIONAL INDUSTRIAL TEACHERS

Approved industrial experience will be evaluated in terms of college credits and, if acceptable to the head of the department and the Dean of the School of Engineering may be used in place of shop work on the basis of four credit hours for each year of experience up to a maximum of twenty credits. Approved teaching experience may be credited as practice teaching on the basis of two credit hours per year up to a maximum of six credits.

REQUIRED COURSES

General Education	Credits
English	10
Mathematics	6
Economics	6
Rural Sociology	3
History (Including History 305)	6
Public Speaking	2
Technical	
Shop Work	24
Engineering Drawing	4
Sciences	
Chemistry	8
Physics	8
Modern Industries	3
Industrial Management	2

Professional Education	Credits
The Courses required by the State Department of Education for the Smith-Hughes certificate and any other courses in education suited to the needs of the student	24
Elective	
To be approved by the head of the department	34
TOTAL CREDITS	140

GROUP 2. FOR INDUSTRIAL ARTS TEACHERS

FRESHMAN YEAR

First Semester		Credit	Second Semester		Credit
Chemistry 101 Inorganic Chemistry	(3-3)	4	Chemistry 102 Inorganic Chemistry	(3-3)	4
Engineering Drawing 111 Mechanical Drawing	(0-6)	2	Engineering Drawing 112 Mechanical Drawing	(0-4)	1
English 103 Rhetoric and Composition	(3-0)	3	Engineering Drawing 124 Descriptive Geometry	(2-2)	3
Mathematics 101 Algebra	(3-0)	3	English 104 Rhetoric and Composition	(3-0)	3
Mechanical Engineering 101 Engineering Problems	(1-2)	2	Mathematics 103 Trigonometry	(3-0)	3
Mechanical Engineering 201 Welding and Foundry	(0-3)	1	Mechanical Engineering 102 Engineering Problems	(1-2)	2
Military Science	(1-2)	1	Mechanical Engineering 202 Welding and Foundry	(0-3)	1
Physical Education 101	(0-2)	R	Military Science	(1-2)	1
		16	Physical Education 102	(0-2)	R
					18

SOPHOMORE YEAR

(For the Class of 1941 and thereafter. Others follow 60th Catalogue.)

Architecture 221 Architectural Construction	(1-4)	2	Architecture 222 Architectural Construction	(1-4)	2
English 203 Composition and Literature	(2-0)	2	Electrical Engineering 204 Electric Wiring and Repair	(2-4)	3
Mechanical Engineering 105 Wood Work	(1-6)	3	English 210 Writing and Discussion	(2-0)	2
Military Science	(1-2)	1	Industrial Education 204 Development and Practices	(3-0)	3
Physics 201 College Physics	(3-2)	4	Mechanical Engineering 106 Cabinet Making	(1-6)	3
Elective		6	Military Science	(1-2)	1
		18	Physics 202	(3-2)	4
					18

JUNIOR YEAR

(For the Class of 1941 and thereafter. Others follow 60th Catalogue.)

Agricultural Engineering 321 Farm Shop	(1-3)	2	History 305 American Government	(3-0)	3
Education 321 Secondary School Methods	(3-0)	3	Industrial Education 310 Course Making	(3-0)	3
Industrial Education 301 Methods of Teaching and Class Management	(3-0)	3	Industrial Education 324 Teaching Machine Drawing	(1-3)	2
Industrial Education 323 Teaching Mechanical Drawing	(1-3)	2	Industrial Education 418 General Shop Methods	(1-5)	3
Mechanical Engineering 309 Machine Shop	(0-3)	1	Mechanical Engineering 310 Machine Shop	(0-3)	1
Psychology 301 Educational Psychology	(3-0)	3	Mechanical Engineering 329 Advanced Cabinet Making	(1-6)	3
Elective		4	Elective		3
		18			18

SENIOR YEAR

(For the Class of 1941 and thereafter. Others follow 60th Catalogue.)

Economics 403 Principles of Economics	(3-0)	3	English 401a Public Speaking	(0-3)	1
Industrial Education 406 Vocational Guidance	(2-0)	2	[25]Industrial Education 416 Practice Teaching	(2-5)	4
[25]Industrial Education 415 Practice Teaching	(2-5)	4	Elective		12
Industrial Education 419 Laboratory Industrial Methods	(1-5)	3			17
Elective		6			
		18			

[25] 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.

CURRICULUM IN MECHANICAL ENGINEERING

(Power, Automotive, Aeronautical, Industrial, Refrigerating, Heating, Ventilating, and Air Conditioning).

FRESHMAN YEAR

(See page 109)

SOPHOMORE YEAR

First Semester	Credit	Second Semester	Credit
Chemistry 207 (2-3) Quantitative Analysis	3	Chemistry 208 (1-3) Technical Analysis	2
Civil Engineering 206 (1-3) Surveying	2	English 210 (2-0) Writing and Discussion	2
English 203 (2-0) Composition and Literature	2	Mathematics 204 (4-0) Calculus	4
Mathematics 203 (4-0) Calculus	4	Mechanical Engineering 202 (0-3) Welding and Foundry	1
Mechanical Engineering 201 (0-3) Welding and Foundry	1	Mechanical Engineering 212 (3-0) Engineering Mechanics	3
Military Science (1-2)	1	Military Science (1-2)	1
Physics 203 (4-3) General Physics	5	Physics 204 (4-3) General Physics	5
	18		18

JUNIOR YEAR

Civil Engineering 305 (4-0) Mechanics of Materials	4	Civil Engineering 315 (0-2) Materials Laboratory	1
Civil Engineering 311 (3-0) Hydraulics	3	Economics 403 (3-0) Principles of Economics	3
Electrical Engineering 307 (3-3) Electrical Machinery	4	Electrical Engineering 308 (3-3) Electrical Machinery	4
History 305 (3-0) American Government	3	Mechanical Engineering 307 (2-3) Kinematics	3
Mechanical Engineering 309 (0-3) Machine Shop	1	Mechanical Engineering 310 (0-3) Machine Shop	1
Mechanical Engineering 313 (3-0) Engineering Mechanics	3	Mechanical Engineering 320 (5-0) Thermodynamics	5
Elective	3	Elective	3
	21		20

SENIOR YEAR

Electrical Engineering 431 (2-0) Engineering Administration	2	English 401a (0-3) Public Speaking	1
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) Engineering Laboratory	2
Mechanical Engineering 417 (3-0) Power Engineering	3	Elective	3
Mechanical Engineering 419 (3-0) Industrial Engineering	3	[20]Technical Elective	10
Mechanical Engineering 423 (3-0) Industrial Administration	3		19
Elective	3		
	19		

First Semester	Credit	Second Semester	Credit

[26] Technical electives to be chosen from the following:

Electrical Engineering 416 (3-0) Motor Applications	3	Mechanical Engineering 430 (2-2) Production Engineering	3
Mechanical Engineering 407 (3-0) Refrigeration	3	Mechanical Engineering 432 (4-0) Automotive Engineering	4
Mechanical Engineering 410 (3-0) Internal Comb. Engines	3	Mechanical Engineering 436 (4-0) Adv. Heat., Vent. and Air Con.	4
Mechanical Engineering 418 (3-0) Power Engineering	3	Mechanical Engineering 438 (3-0) Marketing Ind. Products	3
Mechanical Engineering 420 (3-0) Industrial Engineering	3	Mechanical Engineering 440 (2-3) Physical Metallography	3
Mechanical Engineering 428 (3-0) Aerodynamics	3		

FOUR-YEAR CURRICULUM IN PETROLEUM ENGINEERING

(Two months approved experience in oil field operation required for graduation.)

FRESHMAN YEAR

(See page 109)

SOPHOMORE YEAR

Chemistry 207 (2-3) Quantitative Analysis	3	Civil Engineering 201 (3-4) Surveying	4
Geology 201 (3-0) General	3	English 307 (2-0) Technical Writing	2
Geology 207 (3-4) Mineralogy and Petrology	4	Geology 202 (3-3) Historical Geology	4
Mathematics 203 (4-0) Calculus	4	Mathematics 204 (4-0) Calculus	4
Mechanical Engineering 309 (0-3) Machine Shop	1	Petroleum Engineering 204 (2-0) The Petroleum Industry	2
Military Science (1-2)	1	Military Science (1-2)	1
Physics 203 (4-3) General Physics	5	Physics 204 (4-3) General Physics	5
	21		22

JUNIOR YEAR

Chemistry 206a (3-0) Organic	3	Chemistry 342a (3-0) Physical	3
[27]English 203 (2-0) Composition and Literature	2	Civil Engineering 305 (4-0) Mechanics of Materials	4
Geology 312 (3-4) Structural Geology	4	Civil Engineering 311 (3-0) Hydraulics	3
Mechanical Engineering 212 (3-0) Engineering Mechanics	3	Civil Engineering 315 (0-2) Materials Laboratory	1
Mechanical Engineering 323 (4-0) Thermodynamics	4	Civil Engineering 336 (0-2) Hydraulics Laboratory	1
Petroleum Engineering 303 (3-3) Petroleum Development	4	[27]Economics 403 (3-0) Principles of Economics	3
	20	Mechanical Engineering 307 (2-3) Kinematics	3
		Petroleum Engineering 304 (2-3) Petroleum Production Methods	3
			21

[27] Advanced course R. O. T. C. students may substitute Military Science.

SENIOR YEAR

First Semester	Credit	Second Semester	Credit
(For the Class of 1939 and thereafter. Others follow 60th Catalogue)			
Chemistry 408.....(2-0) Metallurgy of Iron and Steel	2	**English 401a**.....(0-3) Public Speaking	1
Electrical Engineering 305.....(3-3) Electrical Machinery	4	**Geology 404**.....(3-0) Geology of Petroleum	3
Mechanical Engineering 403.....(1-3) Engineering Laboratory	2	**History 305**.....(3-0) American Government	3
Mechanical Engineering 410.....(3-0) Internal Comb. Engines	3	**Mechanical Engineering 404**.....(1-3) Engineering Laboratory	2
Petroleum Engineering 405.....(3-0) Equipment and Applications	3	**Petroleum Engineering 401**.....(2-3) Oil Meas. and Trans.	3
Petroleum Engineering 406.....(2-3) Natural Gas and Gasoline	3	**Petroleum Engineering 402**.....(3-0) Oil Field Management	3
Elective.....	3	**Elective**.....	3
	20		18

FIVE-YEAR CURRICULUM IN PETROLEUM ENGINEERING

(Two months approved experience in oil field operation required for graduation.)

FRESHMAN YEAR

(See page 109)

SOPHOMORE YEAR

(See page 116)

JUNIOR YEAR

Chemistry 206.....(3-2) Organic Chemistry	4	**Chemistry 342**.....(3-4) Physical Chemistry	4
Civil Engineering 315.....(0-2) Materials Laboratory	1	**Civil Engineering 305**.....(4-0) Mechanics of Materials	4
English 203.....(2-0) Composition and Literature	2	**Civil Engineering 315**.....(0-2) Materials Laboratory	1
Mechanical Engineering 212.....(3-0) Engineering Mechanics	3	**Mechanical Engineering 307**.....(2-3) Kinematics	3
Petroleum Engineering 303.....(3-3) Petroleum Development	4	**Petroleum Engineering 304**.....(2-3) Petroleum Production Methods	3
Elective.....	3	**Elective**.....	3
[28]**Technical Elective**.....	3	[28]**Technical Elective**.....	3
	20		21

SENIOR YEAR

Economics 403.....(3-0) Principles of Economics	3	**Civil Engineering 311**.....(3-0) Hydraulics	3
Mechanical Engineering 313.....(3-0) Engineering Mechanics	3	**Civil Engineering 336**.....(0-2) Hydraulics Laboratory	1
Mechanical Engineering 323.....(4-0) Thermodynamics	4	**English 210**.....(2-0) Writing and Discussion	2
Petroleum Engineering 403.....(0-3) Petroleum Problems	1	**History 305**.....(3-0) American Government	3
Petroleum Engineering 406.....(2-3) Natural Gas and Gasoline	3	**Petroleum Engineering 401**.....(2-3) Oil Meas. and Transportation	3
Elective.....	3	**Petroleum Engineering 404**.....(0-3) Petroleum Problems	1
[28]**Technical Elective**.....	2	**Elective**.....	3
	19	[28]**Technical Elective**.....	4
			20

FIFTH YEAR

First Semester		Credit	Second Semester		Credit
Electrical Engineering 305 Electrical Machinery	(3-3)	4	**Chemical Engineering 408** Metallurgy of Iron and Steel	(2-0)	2
English 307 Technical Writing	(2-0)	2	**English 401a** Public Speaking	(0-3)	1
Geology 312 Structural Geology	(3-4)	4	**Geology 404** Geology of Petroleum	(3-0)	3
Mechanical Engineering 303 Machine Design	(2-3)	3	**Mechanical Engineering 404** Engineering Laboratory	(1-3)	2
Mechanical Engineering 403 Engineering Laboratory	(1-3)	2	**Mechanical Engineering 410** Internal Combustion Engines	(3-0)	3
Petroleum Engineering 405 Equipment and Applications	(3-0)	3	**Petroleum Engineering 402** Oil Field Management	(3-0)	3
Petroleum Engineering 407 Production Research	(0-8)	3	**Petroleum Engineering 408** Production Research	(0-8)	3
		21	**Physics 407** Geophysics	(3-0)	3
					20

[28] At least eight credits of Technical Electives must be chosen from the following:

Physics 301 Heat	(3-3)	4	**Physics 302** Properties of Matter	(3-3)	4
Physics 305 Light	(2-0)	2	**Physics 402** Electricity and Magnetism	(3-3)	4

CURRICULUM IN TEXTILE ENGINEERING

FRESHMAN YEAR

(See page 109)

SOPHOMORE YEAR

Accounting and Statistics 201 Principles of Accounting	(3-3)	4	**Accounting and Statistics 202** Principles of Accounting	(3-3)	4
Chemistry 207 Quantitative Analysis	(2-3)	3	**Chemistry 208** Technical Analysis	(1-3)	2
Civil Engineering 206 Surveying	(1-3)	2	**English 210** Writing and Discussion	(2-0)	2
English 203 Composition and Literature	(2-0)	2	**History 305** American Government	(3-0)	3
Mechanical Engineering 201 Welding and Foundry	(0-3)	1	**Mechanical Engineering 202** Welding and Foundry	(0-3)	1
Military Science	(1-2)	1	**Military Science**	(1-2)	1
Physics 203 General Physics	(4-3)	5	**Physics 204** General Physics	(4-3)	5
		18			18

JUNIOR YEAR

Economics 403 Principles of Economics	(3-0)	3	[29]**Chemistry 308** Dyeing	(3-3)	4
Mechanical Engineering 309 Machine Shop	(0-3)	1	**Electrical Engineering 305** Electrical Machinery	(3-3)	4
Textile Engineering 205 Cotton Exchanges	(3-0)	3	**Mechanical Engineering 420** Industrial Engineering	(3-0)	3
Textile Engineering 301 Yarn Manufacture	(2-3)	3	**Textile Engineering 302** Yarn Manufacture	(0-2)	1
Textile Engineering 303 Fabric Design	(0-3)	1	**Textile Engineering 304** Fabric Design	(0-3)	1
Textile Engineering 307 Weaving	(3-6)	5	**Textile Engineering 306** Weaving	(3-3)	4
Elective		3	**Elective**		3
		19			20

[29] Offered in alternate years. Offered in 1937-38.

SENIOR YEAR

First Semester	Credit	Second Semester	Credit
Electrical Engineering 431 (2-0) Engineering Administration	2	**Economics 311** (3-0) Money and Banking	3
Mechanical Engineering 419 (3-0) Industrial Engineering	3	**English 401a** (0-3) Public Speaking	1
Textile Engineering 401 (3-2) Yarn Manufacture	4	**Textile Engineering 402** (2-3) Yarn Manufacture	3
Textile Engineering 413 (1-3) Cotton Classing	2	**Textile Engineering 414** (0-3) Cotton Classing	1
Textile Engineering 415 (0-3) Fabric Design	1	**Textile Engineering 416** (1-3) Fabric Design	2
Textile Engineering 419 (1-3) Weaving	2	**Textile Engineering 420** (0-3) Weaving	1
Elective	5	[30]**Textile Engineering 422** (3-0) History of Textile Industry	3
	19	**Elective**	6
			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.

Accounting and Statistics 409 (3-0) Survey of Accounting Principles — 3
Architecture 315 (2-0) Modern Architecture — 2
Architecture 415 (2-0) The Fine Arts — 2
Biology 206 (2-4) General Bacteriology — 3
Economics 311 (3-0) Money and Banking — 3
English (Advanced)
Genetics 405 (3-0) Survey of Eugenics — 3
Geology 201 (3-0) General — 3
History 313 (3-0) Latin American Nations to 1820 — 3
History 423 (3-0) American Foreign Relations — 3
Mathematics 305 (2-0) Differential Equations — 2
Modern Language (3-0) French, German or Spanish — 3
Psychology 207 (3-0) Psychology — 3
Rural Sociology 311 (3-0) Social Psychology — 3
Architecture 416 (2-0) The Fine Arts — 2
Biology 323 (1-6) Systematic Bacteriology — 3
Economics 318 (3-0) Labor Problems — 3
Economics 408 (3-0) Corporation Finance — 3
Economics 412 (3-0) Public Finance and Taxation — 3
English (Advanced)
Geology 202 (3-3) Historical — 4
History 314 (3-0) Latin American Republics to 1937 — 3
History 322 (3-0) Industrial History of U. S. — 3
History 424 (3-0) American Foreign Relations — 3
Mathematics 202 (3-0) Math. Theory of Investment — 3
Mechanical Engineering 307 (2-3) Kinematics — 3
Modern Language (3-0) French, German or Spanish — 3
Municipal and Sanitary Engineering 408 (3-0) Municipal Administration — 3
Rural Sociology 312 (3-0) General Sociology — 3

[30] Offered in alternate years. Not offered in 1937-38.

TWO-YEAR CURRICULUM IN COTTON MARKETING AND CLASSING

FIRST YEAR

First Semester		Credit	Second Semester		Credit
Agricultural Economics 103 Economic History of Agriculture	(3-0)	3	**Agricultural Economics 101** Agricultural Resources	(4-0)	4
Chemistry 101 Inorganic Chemistry	(3-3)	4	**English 104** Rhetoric and Composition	(3-0)	3
English 103 Rhetoric and Composition	(3-0)	3	**History 322** Industrial History of U. S.	(3-0)	3
Mathematics 101 Algebra	(3-0)	3	**Mathematics 110** Survey of Mathematics	(3-0)	3
Military Science	(1-2)	1	**Military Science**	(1-2)	1
Textile Engineering 107 Cotton Classing	(2-5)	4	**Textile Engineering 108** Cotton Classing	(2-5)	4
		18			18

SECOND YEAR

Accounting and Statistics 201 Principles of Accounting	(3-3)	4	**Accounting and Statistics 202** Principles of Accounting	(3-3)	4
Economics 203 Principles of Economics	(3-0)	3	**Economics 204** Principles of Economics	(3-0)	3
English 203 Composition and Literature	(2-0)	2	**Economics 316** Business Law	(3-0)	3
History 305 American Government	(3-0)	3	**English 210** Writing and Discussion	(2-0)	2
Military Science	(1-2)	1	**Military Science**	(1-2)	1
Textile Engineering 205 Cotton Exchanges	(3-0)	3	**Textile Engineering 212** Cotton Classing	(1-5)	3
Textile Engineering 211 Cotton Classing	(1-5)	3	**Textile Engineering 218** Foreign Cotton Markets	(3-0)	3
		19			19

NOTE.—Completion of this Course will be accepted for full junior standing in Group 2 of the Curriculum in Agricultural Administration.

THE SCHOOL OF VETERINARY MEDICINE

ENTRANCE REQUIREMENTS

Applicants for admission to the first year class in the School of Veterinary Medicine must present a total of not less than 1 year (35 semester hours) of work in an approved college or university. Deficiencies in the prescribed pre-veterinary curriculum may be made up during the college year and summer sessions. The following pre-veterinary curriculum is prescribed:

First Semester		Credit	Second Semester		Credit
Animal Husbandry 107 General Animal Husbandry	(2-4)	3	Biology 102 Mor. and Tax. of Seed Plants	(2-4)	3
Biology 101 General Botany	(3-4)	4	Biology 204 General Zoology	(2-4)	3
Biology 203 General Zoology	(2-4)	3	Chemistry 102 Inorganic Chemistry	(3-3)	4
Chemistry 101 Inorganic Chemistry	(3-3)	4	English 104 Rhetoric and Composition	(3-0)	3
English 103 Rhetoric and Composition	(3-0)	3	Military Science	(1-2)	1
Military Science	(1-2)	1	Poultry Husbandry 201 Poultry Production	(2-2)	3
Physical Education 101	(0-2)	R	Physical Education 102	(0-2)	R
		18			17

CURRICULUM IN VETERINARY MEDICINE

FIRST YEAR

(For the Class of 1941 and thereafter)

Chemistry 206 Organic Chemistry	(3-2)	4	Biology 206 Bacteriology	(2-4)	3
English 203 Composition and Literature	(2-0)	2	English 307 Technical Writing	(2-0)	2
Entomology 201 General Entomology	(2-2)	3	Entomology 208 Animal Parasites	(2-2)	3
Military Science	(1-2)	1	History 305 American Government	(3-0)	3
Veterinary Anatomy 111 Anatomy of Domestic Animals	(3-6)	5	Military Science	(1-2)	1
Vet. Phys. and Pharm. 121 Physiology of Domestic Animals	(3-0)	3	Veterinary Anatomy 112 Anatomy of Domestic Animals	(3-6)	5
		18	Vet. Phys. and Pharm. 122 Physiology of Domestic Animals	(2-0)	2
					19

SECOND YEAR

(For the Class of 1941 and thereafter)

Dairy Husbandry 202 Dairying	(2-2)	3	Genetics 301 Genetics	(3-2)	4
Veterinary Anatomy 211 Anatomy of Domestic Animals	(3-6)	5	Veterinary Anatomy 214 Embryology	(2-4)	3
Veterinary Anatomy 213 Histology	(2-4)	3	Veterinary Pathology 242 General Pathology	(3-2)	4
Vet. Phys. and Pharm. 221 Physiology of Domestic Animals	(3-2)	4	Vet. Phys. and Pharm. 222 Physiology of Domestic Animals	(2-4)	3
Elective		3	Elective		4
		18			18

THIRD YEAR
(For the Class of 1941 and thereafter)

First Semester		Credit	Second Semester		Credit
Vet. Med. and Surgery 351 Non-Infectious Diseases	(3-0)	3	Vet. Med. and Surgery 352 Non-Infectious Diseases	(3-0)	3
Vet. Med. and Surgery 361 General Surgery	(3-0)	3	Vet. Med. and Surgery 362 General Surgery	(3-0)	3
Vet. Med. and Surgery 371 Clinic	(0-7)	2	Vet. Med. and Surgery 372 Clinic	(0-12)	4
Veterinary Pathology 341 Special Pathology	(1-4)	2	Veterinary Pathology 342 Special Pathology	(2-4)	3
Veterinary Pathology 343 Special Bacteriology	(2-4)	3	Vet. Phys. and Pharm. 334 Pharmacology	(3-2)	4
Vet. Phys. and Pharm. 333 Pharmacology	(3-4)	4	Elective		3
Elective		3			20
		20			

FOURTH YEAR
(For the Class of 1941 and thereafter)

Animal Husbandry 409 Animal Nutrition	(3-3)	4	English 401 Public Speaking	(2-0)	2
Vet. Med. and Surgery 451 Diseases of Small Animals and Fowls	(3-0)	3	Vet. Med. and Surgery 452 Practice of Medicine	(3-0)	3
Vet. Med. and Surgery 453 Infectious Diseases	(3-0)	3	Vet. Med. and Surgery 462 Operative Surgery	(3-4)	4
Vet. Med. and Surgery 461 Obstetrics	(3-0)	3	Vet. Med. and Surgery 472 Clinic	(0-7)	2
Vet. Med. and Surgery 471 Clinic	(0-7)	2	Veterinary Pathology 442 Meat Hygiene	(2-2)	3
Veterinary Pathology 441 Immunology; Serum Therapy	(2-2)	3	Veterinary Pathology 444 Laboratory Diagnosis	(2-2)	3
Veterinary Pathology 443 Parasitology	(2-2)	3	Vet. Phys. and Pharm. 432 Toxicology	(1-4)	2
		21			19

CURRICULUM IN VETERINARY MEDICINE

JUNIOR YEAR
(For the Classes of 1938 and 1939)

Dairy Husbandry 202 Dairying	(2-2)	3	Genetics 301 Genetics	(3-2)	4
Vet. Med. and Surgery 351 Non-infectious Diseases	(3-0)	3	Vet. Med. and Surgery 352 Non-infectious Diseases	(3-0)	3
Vet. Med. and Surgery 361 General Surgery	(3-0)	3	Vet. Med. and Surgery 362 General Surgery	(3-0)	3
Vet. Med. and Surgery 371 Clinic	(0-7)	2	Vet. Med. and Surgery 372 Clinic	(0-12)	4
Veterinary Pathology 341 Special Pathology	(1-4)	2	Veterinary Pathology 342 Special Pathology	(2-4)	3
Veterinary Pathology 343 Special Bacteriology	(2-4)	3	Vet. Phys. and Phar. 334 Pharmacology	(3-2)	4
Vet. Phys. and Phar. 333 Pharmacology	(3-4)	4	Elective		3
Elective		3			24
		23			

SENIOR YEAR
(For the Classes of 1938 and 1939)

Animal Husbandry 409 Animal Nutrition	(3-3)	4	English 401 Public Speaking	(2-0)	2
Vet. Med. and Surgery 451 Diseases of Small Animals and Fowls	(3-0)	3	Vet. Med. and Surgery 452 Practice of Medicine	(3-0)	3
Vet. Med. and Surgery 453 Infectious Diseases	(3-0)	3	Vet. Med. and Surgery 462 Operative Surgery	(3-4)	4
Vet. Med. and Surgery 461 Obstetrics	(3-0)	3	Vet. Med. and Surgery 472 Clinic	(0-7)	2
Vet. Med. and Surgery 471 Clinic	(0-7)	2	Veterinary Pathology 442 Meat Hygiene	(2-2)	3
Veterinary Pathology 441 Immunology; Serum Therapy	(2-2)	3	Veterinary Pathology 444 Laboratory Diagnosis	(2-2)	3
Veterinary Pathology 443 Parasitology	(2-2)	3	Vet. Phys. and Pharm. 432 Toxicology	(1-4)	2
Elective		3	Elective		3
		24			22

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 36.

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 through the session no numerals are shown.

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

No new text book is to be adopted nor is any change to be made in the required text book for any course except upon the recommendation of the head of the department and the approval of the dean concerned, and the written authority of the Executive Committee.

Freshman and sophomore classes with an enrollment of less than ten students and junior and senior classes with less than six students will be offered only in exceptional cases.

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

COURSES OF INSTRUCTION BY DEPARTMENTS

DEPARTMENT	PAGE	DEPARTMENT	PAGE
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Agricultural Education	130	Industrial Education	176
Agricultural Engineering	131	Landscape Art	179
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Dairy Husbandry	152	Physical Education	197
Economics	154	Physics	198
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Genetics	168	Veterinary Pathology	208
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DEPARTMENT OF ACCOUNTING AND STATISTICS

Professor Leland, Associate Professors Weinke, Hamilton, Mr. Simpson, Mr. J. E. Oliver

201. *Principles of Accounting.* (3-3). *Credit* 4. I, II

Introductory course designed to furnish such a knowledge of accounting as will be of value to the business executive and also serve as a foundation for advanced accounting. The subject matter includes: analysis and recording of business transactions; use of the journal, ledger, trial balance, working sheets, adjusting and closing entries, operating and financial statements; special columnar journals; controlling accounts, departmentalization; business papers and business procedure related to accounting.

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

A continuation of course 201. The subject matter includes: accruals and deferments, classification of accounts, voucher systems, systems of internal check, introduction to partnership and corporation accounting, accounting for manufacturing concerns, analysis and interpretation of statements.

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

Fundamental processes of accounting, special phases of corporation accounting, introduction to actuarial accounting, specific asset and liability accounts, consignments, installment sales, depreciation, analysis of financial condition and results of operation.

302. *Theory and Practice of Accounting.* (3-3). *Credit* 4 II

A continuation of course 301. Statement of application of funds, partnership accounting, insurance, accounting for insolvent concerns, branch accounting, parent company and subsidiary accounting, consolidations, foreign exchange, estates and trusts, introduction to budgeting.

303. *Statistical Method.* (3-3). *Credit* 4. I, II

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, linear correlation.

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

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

402. *Accounting Systems.* (3-0). *Credit* 3. I

A study of the special features of accounting for various types of enterprises, an analysis of the accounting systems devised and recommended by government agencies and trade associations. Each student is expected to develop a system for some business organization. Prerequisite: Accounting and Statistics 301.

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

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

406. *Agricultural and Business Cycles.* (3-0). *Credit* 3. II

An empirical and statistical study of business fluctuations; relationship of agriculture to industry; theory, causes and control of business cycles; business barometers and forecasting. Study of economic and statistical services such as Babson, Brookmire, Standard Statistics Company, etc. Prerequisite: Accounting and Statistics 303.

407. *Auditing.* (3-3). *Credit* 4. I

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.

408. *Advanced Auditing.* (3-0). *Credit* 3. II

Case studies in auditing, financial investigations, auditing reports, certificates, statements giving effect to financing. Prerequisite: Accounting and Statistics 407.

409. *Survey of Accounting Principles.* (3-0). *Credit* 3. I, II

Emphasis on the viewpoints of the students taking work in engineering, architecture, agriculture and veterinary medicine. In so far as enrollment permits, separate sections will be used to meet the respective needs of the various groups of students. The course is not as comprehensive as Accounting and Statistics 201, 202 and is not open to students enrolled in Agricultural Administration or Liberal Arts. Survey of accounting records and statements, problems of income and valuation, interpretation of accounts. Prerequisite: Junior standing.

410. *Accounting Seminar.* (3-0). *Credit* 3. II

Cost accounting literature, research on valuation, income, budgeting, or other accounting problems. Prerequisite: Accounting and Statistics 401, 407.

430. *Cost Accounting Survey.* (3-0). *Credit* 3. II

An introductory course following Accounting and Statistics 409, for architects and engineers. Purposes and uses of cost accounting; elements of cost; job order and process costs; budgets and standard costs; cost reports. Prerequisite: Accounting and Statistics 409.

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; balance sheet and profit and loss ratios. Prerequisite: Accounting and Statistics 201, 202.

502. *Specialized Accounting.* (3-2). *Credit* 4. II

Consideration of the accounting problems and the practices peculiar to specific industries. Class work on municipal, bank, insurance, and public utility accounting. Individual reports on problems in the above fields or in specific lines of manufacturing, wholesaling or retailing. Prerequisite: Accounting and Statistics 201, 202.

503. *Price Analysis.* (3-2). *Credit* 4. I

Economic concepts relating to prices, statistical methods of analyzing prices, supply and demand curves, elasticity of demand, price forecasting, study and criticism of works on price analysis. Term paper required on factors affecting the price of an agricultural commodity. Prerequisite: Accounting and Statistics 303, Economics 203, 204.

504. *Advanced Statistics.* (3-2). *Credit* 4. II

Curve fitting and empirical formulas. The study of measurements of relationship. Multiple correlation, linear and non-linear; part and partial correlation; research studies involving the application of multiple correlation. Sampling and measures of unreliability, Mathematical fitting of normal curves. Analysis of variance. Prerequisite: Accounting and Statistics 303, Mathematics 101.

DEPARTMENT OF AGRICULTURAL ECONOMICS

(Including Marketing and Finance, and Farm and Ranch Management)

Professor Barger, Professor Hunt, Associate Professors [1]Paine, Schlesselman, Arnold, Mr. Hanks, Mr. E. B. Smith, Mr. Moseley, [2]Mr. Upchurch.

101. *Agricultural Resources.* (4-0). *Credit* 4. I, II

A background course for students of agriculture, stressing the causual relationship between natural environmental, economic, cultural, and other factors and the production and commerce in agricultural commodities.

103. *Economic History of Agriculture.* (3-0). *Credit* 3. I, II

The history of agriculture in Europe from its earliest stages; the economic development of agriculture in the United States from colonial times to the present; the interrelationship between development in agriculture, and industry and commerce; the growth of institutions and the enactment of legislation for the advancement of agriculture.

301. *Agricultural Geography of North America.* (3-0). *Credit* 3. I

A thorough study of the natural agricultural regions of the United States and Canada, with special stress on the relationship between natural environment and the past, present and potential agricultural and commercial development of those areas.

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[1] On leave, 1936-37.
[2] Graduate Assistant, First Semester.

307. *Advertising.* (3-0). *Credit* 3. I

A basic course covering the fundamental theory, principles, and applications of advertising in business and agriculture. Prerequisite: Economics 203 and 204, or 403.

310. *The Credit System.* (3-0). *Credit* 3. II

Principles and practices of credit and collections as employed by agricultural and business concerns. Prerequisite: Economics 311.

312. *Agricultural Economics.* (3-0). *Credit* 3. I, II

Principles of economics as applied to the problems of agriculture.

314. *Marketing.* (3-0). *Credit* 3. I, II

A general introductory course covering the principles, practices and problems involved in the marketing of agricultural commodities. Prerequisite: Economics 203 or 403; or Agricultural Economics 312.

321. *Farm Records and Cost Analysis.* (2-2). *Credit* 3. I

Systems of accounts and records suited to farms and ranches. Emphasis on the use of cost finding principles as aids to more efficient farm management. Laboratory work based on records of actual farms. Prerequisite: Twelve hours of credit in technical agriculture.

410. *Transportation.* (3-0). *Credit* 3. II

The development of the various agencies of transportation in the United States; history of governmental regulation; survey and analysis of present day transportation trends and problems; special attention to transportation problems having an important influence on the marketing of farm products. Prerequisite: Economics 203 and 204, or 403; or Agricultural Economics 312.

413. *Cooperative Marketing of Farm Products.* (3-0). *Credit* 3. I

A study of farmers' cooperative marketing and purchasing organizations in the United States and foreign countries from the standpoints of their history, economic philosophy, factors of success and failure, types of organization, business methods, legal aspects, governmental relationships, and potential development. Prerequisite: Agricultural Economics 314.

420. *Market Analysis.* (3-0). *Credit* 3. II

Methods of conducting marketing surveys; analysis of data and use of findings considered from the standpoint both of consumers and of concerns handling agricultural or industrial products. Prerequisite: Agricultural Economics 425.

421. *Farm Management.* (3-2). *Credit* 4. I, II

The application of business principles to the organization and operation of farms and ranches. Special attention to factors influencing farm profits. Laboratory work based on actual farms and ranches. Prerequisite: Twenty hours of credit in technical agriculture.

423. *Land Economics.* (3-0). *Credit* 3. II

A general survey of the economic problems of land, covering such fundamentals as the relation of population to its supply; its classification; utilization, tenure, valuation, credit, and taxation; property rights in land; and state and national land policies. Major attention to agricultural land. Prerequisite: Agricultural Economics 312 or Economics 203 and 204, or 403.

425. *Wholesale and Retail Merchandising.* (3-0). *Credit* 3. I

A systematic description and a critical analysis of the fundamental operations of wholesale and retail concerns, particularly those serving agricultural communities. Prerequisite: Economics 203 and 204, or 403.

426. *Sales Organization.* (3-0). *Credit* 3. II

A consideration of the general principles of successful personal selling, sales organization and sales management; analysis of some carefully selected sales problems of concerns handling industrial and agricultural products. Prerequisite: Economics 203 and 204, or 403.

427. *Cotton Marketing.* (3-0). *Credit* 3. I

Historical survey of the development of cotton marketing problems; demand and supply outlook; services in cotton marketing; descriptions of various markets and price determining factors in these markets; cooperative efforts in marketing cotton; critical analysis of cotton policies of the Federal Government. Prerequisite: Agricultural Economics 314.

429. *Economic Policy for Agriculture.* (2-0). *Credit* 2. I

A critical analysis of the past and present programs of governmental agencies and farmers' organizations for the economic betterment of agriculture. Prerequisite: Economics 203 and 204, or 403; or Agricultural Economics 312.

430. *Farm Credit.* (3-0). *Credit* 3. II

Analysis of the credit requirements of individual farmers and farmers' cooperative organizations; investors and depositors as sources of credit; principles upon which each type of farm credit is extended; the instruments and legal aspects of farm credit; the cost of credit; description of financial institutions which serve agriculture, with major attention to the component units of the Farm Credit Administration. Prerequisite: Economics 311.

432. *Advanced Farm and Ranch Management.* (2-3). *Credit* 3. II

Detailed problems involved in the organization and management of specific farms and ranches, covering such matters as efficiency analysis, budget preparation, layout and improvement. Survey of research literature in farm and ranch organization and management. Prerequisite: Agricultural Economics 421.

436. *Rural Tax Problems.* (3-0). *Credit* 3. II

A factual survey of the development and present situation regarding the taxation of farm property; a critical consideration of the system of taxing farm property as compared with the taxation of other property; a study of the administrative aspects in the taxation of farm property; possible and proposed methods of improving the taxation of farm property. Prerequisite: Economics 412.

FOR GRADUATES

501, 502. *Advanced Marketing Problems.* (4-0). *Credit* 4 *each semester.*

A thorough study of the problems involved in marketing farm products such as price determining factors; costs affecting distribution; operation of produce exchanges and futures markets; governmental regulation of middlemen and marketing services; and adjustment of supply to demand individually, cooperatively, and by governmental aid. Prerequisite: Agricultural Economics 314.

503. *Land Problems.* (4-0). *Credit* 4. I

An extensive study of problems involved in developing state and national policies for the proper utilization of our land resources. Prerequisite: Agricultural Economics 423.

511. *Farm Management Surveys.* (2-4). *Credit* 3. I

Methods of making surveys of regional systems of farming; analysis of survey data; use of findings in formulating farm organization and management programs. Practice work consists of surveying actual farms and ranches. Prerequisite: Agricultural Economics 421.

512. *Cotton Marketing Problems.* (4-0). *Credit* 4. II

Extensive study of potential cotton areas of the world, trends in production, trends of consumption of cotton and substitutes for cotton in the various consuming areas; national and international policies that affect the cotton farmers; price determining factors in the various markets; governmental aid in estimating supply and demand, regulations of standards, and control of futures market; cooperative versus individual sale of cotton. Prerequisite: Agricultural Economics 427.

514. *Contemporary Problems in Agricultural Economics.* (4-0). *Credit* 4. II

A critical consideration of some of the most important contemporary problems in agricultural economics. Prerequisite: Agricultural Economics 312 or 429; and 430.

516. *Agricultural Geography.* (4-0). *Credit* 4. II

A regional survey of the world distribution of major agricultural commodities and associated industries, with particular attention to the causal influences of natural, social and economic factors.

518. *International Trade in Agricultural Products.* (4-0). *Credit* 4. II.
History of world trade in agricultural products; recent effects on American agriculture of our tariff policies, and of the nationalistic economic policies of foreign countries; the effect on American agriculture of our present governmental policies with respect to trade agreements and restricted domestic production; the future of American agriculture under possible governmental policies in foreign trade. Prerequisite: Economics 409.

571, 572. *Research Methods.* (2-6). *Credit* 4 *each semester.*
Principles of research as applied to the field of agricultural economics. Practice work consists of an analysis of the research projects in agricultural economics conducted by federal agencies, state Agricultural Experiment Stations, and by private research institutions. Special attention to the methods and programs of the Division of Farm and Ranch Economics of the Texas Agricultural Experiment Station. Prerequisite: Agricultural Economics 312 or 429; 314 and 430.

DEPARTMENT OF AGRICULTURAL EDUCATION

Professor Alexander, Professor H. Ross, Mr. Sherrill

302. *Principles of Agricultural 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

(Agricultural Education 401, 402 are prerequisites to the following courses.)

501, 502. *Advanced Methods in Agricultural Education.* (4-0). *Credit* 4 *each semester.*
An advanced course in methods of teaching vocational agriculture.

505. *Supervised Practice.* (4-0). *Credit* 4. I
An advanced study of supervised practice in vocational agriculture.

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. II
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. II
Methods of organizing and conducting evening schools in vocational agriculture on a participation basis.

511. *Evening School Problems.* (2-0). *Credit* 2. I
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. II
Methods of using Agricultural Outlook Material. Open to teachers of agriculture and county agents who have had a course in cooperative marketing.

513. *Administration and Supervision of Agricultural Education.* (2-0). *Credit* 2. I
Problems of organization, administration and supervision of vocational agriculture, experiment station and extension work.

514. *Research and Thesis Problems.* (2-0). *Credit* 2. II

DEPARTMENT OF AGRICULTURAL ENGINEERING

Professor Scoates, Professor F. R. Jones, Associate Professor Thurmond, Assistant Professor Christy.

201. *Farm Machinery.* (2-2). *Credit* 3. I, II
Construction, adjustment, operation and repair of all types of farm machinery; tilling, seeding, cultivating, fertilizing and power machinery.

203. *Gas Engines.* (2-2). *Credit* 3. I
Sources of farm power; construction, operation, care, and repair of various types of internal combustion engines with agricultural application.

205. *Farm Buildings and Structures.* (2-3). *Credit* 3. I
Methods of construction and use of different materials for various buildings found on the farm.

216. *Automotive Machinery.* (3-3). *Credit* 4. II
Construction, operation, care and repair of tractors, automobiles, and trucks. Prerequisite: Agricultural Engineering 203.

305. *Terracing and Drainage.* (2-3). *Credit* 3. I
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.

321, 322. *Farm Shop.* (1-3). *Credit* 2 *each semester.*
A course for vocational teachers; soldering, belt lacing, rope knots and splices, concrete construction, carpentry, forging, tool sharpening.

413. *Farm Buildings.* (2-3). *Credit* 3. I
Design and location of farm buildings; building materials; construction, arrangement.

418. *Farm Home Utilities.* (3-3). *Credit* 4. II
Types, installation, operation, care and repair of the following utilities for farm buildings: ventilation, heating, lighting, water supply and sewerage disposal, refrigeration, air conditioning.

424. *Terracing.* (1-3). *Credit* 2. I, II
The control of soil erosion and soil moisture by the use of terraces, dams, and similar structures.

425, 426. *Seminar.* (1-0). *Credit* 1 *each semester.*
A review and presentation of the results of research in Agricultural Engineering.

428. *Irrigation and Drainage.* (3-6). *Credit* 5. II
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.

FOR GRADUATES

501, 502. *Advanced Drainage and Irrigation.* (3-3). *Credit* 4 *each semester.*
Advanced study of farm drainage and irrigation with special emphasis on recent developments. Prerequisite: Agricultural Engineering 305 or 428.

503, 504. *Advanced Farm Machinery.* (3-3). *Credit* 4 *each semester.*
Advanced study of farm machinery with special emphasis on recent developments. Prerequisite: Agricultural Engineering 201.

505, 506. *Advanced Farm Buildings.* (2-6). *Credit* 4 *each semester.*
Advanced study of farm buildings and farm home utilities. Prerequisite: Agricultural Engineering 205, 413 and 418.

507. *Cotton Machinery.* (1-3). *Credit* 2. I
An advanced course in cotton machinery used in the preparation of seed bed, seeding, cultivating, harvesting and ginning, with special emphasis on recent developments. Prerequisite: Agricultural Engineering 201.

509, 510. *Advanced Farm Power.* (2-6). *Credit* 4 *each semester.*
Advanced study of farm power with special emphasis on recent developments. Prerequisites: Agricultural Engineering 203 and 216.

511. *Advanced Farm Shop.* (3-3). *Credit* 4. I
Advanced study of farm shop with special emphasis on teaching problems; equipment, methods, supplies and projects. Prerequisite: Agricultural Engineering 321, 322.

513, 514. *Advanced Soil Erosion Engineering.* (3-3). *Credit* 4 *each semester.*
The advanced study of design, construction, and layout of terraces and other obstructions used for the control of soil erosion, as well as the outlet structures for same, with special emphasis on late developments. Prerequisite: Agricultural Engineering 305 or 428.

515, 516. *Technical Research. Credit* 2 *to* 6 *each semester.*
Projects subject to the approval of the head of the department.

DEPARTMENT OF AGRONOMY

Professor Trotter, Professor L. G. Jones, Associate Professor Mogford, Assistant Professor R. C. Potts, Mr. Apple, Mr. Thompson.

105. *Fundamentals of Crop Production.* (3-2). *Credit* 4. I, II
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. I, II
Soil forming processes; geological classification of soils; physical nature of mineral soils; organic matter; soil structure and its modification; classification of soils and the soil survey; forms of soil water; soil water in relation to plants, control of soil water; soil heat, aeration; absorptive properties of soil; removal of nutrients by cropping and leaching; erosion losses; alkali soils; soil acidity; soil organisms; principles of fertilizer practice; farm manures; green manures; maintenance of soil fertility; laboratory and field tests. Prerequisite: Chemistry 101, 102.

308. *Forage Crops.* (2-2). *Credit* 3. 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; also instruction in commercial grading of forage according to federal standards.

314. *Field Crops.* (3-2). *Credit* 4. I
The production, harvesting and utilization of corn, oats, wheat, barley, rye, rice, and grain sorghums together with instruction in the judging and commercial grading of grain according to federal standards. Prerequisite: Agronomy 105 or Biology 101.

315. *Cotton Production.* (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.

410. *Soil Mapping.* (0-3) *Credit* 1. II
Identification, mapping and description of soil types; origin and classification, soil areas, and types in Texas.

413. *Soil and Crop Problems.* (3-0). *Credit* 3. 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 in Texas. 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.

418. *Soil Conservation.* (2-3). *Credit* 3. II
A course dealing with the importance of soil conservation from the standpoint of different soil types in the agricultural regions of Texas and the United States. Conservation methods are presented according to climatic regions, cropping systems, topographic locations, and other influencing factors. Field practice in making a map of a farm, its soil and a plan of reorganization for soil conservation. Prerequisite: Agronomy 301.

420. *Cotton Research Problems.* (1-0). *Credit* 1. II
Research methods as applied to cotton production and improvement.

FOR GRADUATES

501, 502. *Advanced Farm Crops.* (3-4). *Credit* 4 *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.* (3-4). *Credit* 4 *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, soil classification, soil morphology.

507, 508. *Advanced Cotton Production.* (3-4). *Credit* 4 *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.

509, 510. *Research Problems. Credit* 1 *to* 4 *each semester.*
Technical research problems subject to approval of head of department.

DEPARTMENT OF ANIMAL HUSBANDRY

Professor D. W. Williams, Professors Mackey, Buchanan, Associate Professors Schuessler, Mr. Dahlberg, Mr. Giles, Mr. Murphey.

107. *General Animal Husbandry.* (2-4). *Credit* 3. I, II

An introductory survey course. 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 livestock 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.

202. *The Breeds of Farm Animals.* (2-2). *Credit* 3. II

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

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; comparative judging; classifying, grading and valuing market animals; marketing machinery of the live stock industry; shipping losses; shrinks and fills; pure bred sales. Prerequisite: Animal Husbandry 107.

303. *Animal Nutrition.* (3-3). *Credit* 4. I

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.* (1-3). *Credit* 2. I, II

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; wholesale and retail cuts; by-products.

308. *Live Stock Judging.* (1-3). *Credit 2.* I

Form as related to function in farm animals; characteristics considered in the selection and improvement of various breeds and types; factors determining the value; score card and comparative judging.

403. *Advanced Judging.* (0-6). *Credit 2.* II

An advanced course in livestock judging. Prerequisite: Animal Husbandry 202.

406. *Beef Cattle Production.* (3-0) *Credit 3.* II

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; establishment 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.* (3-3). *Credit 4.* I

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.* (2-3). *Credit 3.* II

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.* (3-0). *Credit 3.* II

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.* (3-0). *Credit 3.* I

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. II

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.

419. *Meat Preservation Problems.* (1-3). *Credit* 2. I

A detailed study of problems in methods of curing and storing under various conditions; methods of canning. Prerequisite: Animal Husbandry 307. During the summer session, students who have not had Animal Husbandry 307 or its equivalent will be required to do extra laboratory work in order to become familiar with the material covered in that course.

420. *Quality in Meats.* (2-0). *Credit* 2. II

The effects of feeding, breeding, and management of the animal on the quality of pork, beef, and mutton; a study of cutting tests in relation to type and finish.

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. Students will be given a choice of one breed of each class of livestock for intensive study. Prerequisite: Animal Husbandry 202.

424. *Range Live Stock Production.* (3-0). *Credit* 3. II

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.

425, 426. *Practicums.* (0-3). *Credit* 1 *each semester.*

A course designed to give students information relative to, and experience in the manual phases of livestock management. Prerequisite: Must be taking production courses.

427, 428. *Seminar.* (1-0). *Credit* 1 *each semester.*

FOR GRADUATES

501, 502. *Advanced Animal Nutrition.* (3-3). *Credit* 4 *each semester.*

A continuation of material covered in course 303; review of more recent investigations; methods of investigations; sources of error.

505a, 506a. *Advanced Beef Cattle Production.* (3-3). *Credit* 4 *each semester.*

A continuation of course 406.

505b, 506b. *Advanced Sheep Production.* (3-3). *Credit* 4 *each semester.*

A continuation of course 410.

505c, 506c. *Advanced Swine Production.* (3-3). *Credit* 4 *each semester.* A continuation of course 412.

505d, 506d. *Advanced Horse Production.* (3-3). *Credit* 4 *each semester.* A continuation of course 413.

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 shrinkage 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 the course. Mr. Jones.

573, 574. *Research in Animal Breeding.* (3-4). *Credit* 4 *each semester.* Research problems in mammalian genetics and reproductive physiology, available as thesis material, to students majoring in animal husbandry, dairy husbandry, genetics, biology, veterinary anatomy or veterinary physiology. Problems may either be organized as Experiment Station projects or they may be assigned portions of projects already organized. Lines of work already in progress include inheritance studies with sheep and goats, cytology of farm animals, species hybridization, reproductive physiology of sheep and goats, and the inheritance of resistance to disease. The student must show that he is well grounded in the principles of genetics, anatomy and physiology, before being admitted. Offered only by consent of the man in charge and with the approval of the head of the department in which the student majors. Dr. Warwick.

575, 576. *Research in Animal Nutrition.* (3-4). *Credit* 4 *each semester.* Research problems on a selected topic related to animal nutrition. The student must show that he is well grounded in chemistry and animal nutrition before being admitted. Offered only by consent where cooperative arrangement is necessary with Texas Experiment Station.

DEPARTMENT OF ARCHITECTURE

Professor Langford, Professor Finney, Assistant Professor C. M. Brooks, Jr., Mr. Zisman, Mr. Sullivan

101, 102. *Elementary Design.* (1-6). *Credit* 3 *each semester.* Elementary design; workshop practice in various materials; exercises in abstract design; practical applications as related to architecture.

109, 110. *Freehand Drawing.* (0-4). *Credit* 1 *each semester.*

Freehand drawing; training in various techniques to develop facility in drawing and quick sketching; applications as related to architectural problems.

111, 112. *Architectural Graphics.* (2-3, 1-4). *Credit* 3, 2.
The fundamental principles involved in various methods of projection; exercises in the applications of the principles of descriptive geometry to problems of an architectural nature; shades, shadows, and perspective.

201, 202. *Elementary Design.* (1-10). *Credit* 4 *each semester.*
Elementary design; study of plan arrangement; methods of construction; materials and techniques of presentation.

205, 206. *Freehand Drawing.* (0-4). *Credit* 1 *each semester.*
Introduction to media through cast drawing, including sketching in charcoal, sanguine, pen and ink, gouache; drawing from the living model.

207, 208. *History of Architecture.* (3-0). *Credit* 3 *each semester.*
Introduction to the history of architecture; vocabulary; survey of the periods from Egyptian through the Byzantine.

221, 222. *Architectural Construction.* (1-4). *Credit* 2 *each semester.*
Details in frame and masonry construction; general drawings, scale and full size details. (For students in Industrial Education).

301, 302. *Intermeriate Design.* (0-16). *Credit* 5 *each semester.*
Intermediate design; Class B; projects and sketches in planning, design, and construction of buildings.

305, 306. *Freehand Drawing.* (0-4). *Credit* 1 *each semester.*
Water color; outdoor sketching and studio still life.

313, 314. *Mechanics of Materials; Stress Analysis.* (4-0, 2-3). *Credit* 4, 3.
A study of the principles of analytic mechanics and graphic statics; properties of materials, the general theory of structural design.

315, 316. *History of Architecture.* (2-0). *Credit* 2 *each semester.*
Survey of the periods from Romanesque through the Renaissance; contemporary architecture with emphasis on the American historic styles.

401, 402. *Intermediate Design.* (0-18). *Credit* 6 *each semester.*
Advanced intermediate design; Class B and A; projects and sketches in planning, design, and construction of larger buildings.

412. *Steel Structures.* (2-3). *Credit* 3. II
Design of wood and steel framing in building construction; beams and girders, columns and footings; roof trusses; analytic and graphic methods. Prerequisite: Architecture 313 and 314.

415, 416. *The Fine Arts.* (2-0). *Credit* 2 *each semester.*
The Fine Arts, their history and appreciation; Greek and Roman sculpture and painting; their revival in the Renaissance; seminars in the modern painters. Prerequisite: Senior classification.

417. *Concrete Structures.* (3-0). *Credit* 3. I

Theory of reinforced concrete design and its application in the design of slabs, beams, girders, columns, and footings; concrete buildings. Prerequisite: Architecture 314, or Civil Engineering 305.

451, 452. *Advanced Design.* (0-24, 2-24). *Credit* 8, 10.

Advanced architectural design; Class A; projects, sketches, and models in planning, design, and construction of large buildings and groups of buildings.

453, 454. *Building Materials; Building Practice.* (2-3). *Credit* 3 *each semester.*

The materials of construction, their properties, characteristics, and uses; office practice, including working drawings, estimating, specifications; the law of architecture and building.

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 mechanical equipment of buildings.

DEPARTMENT OF BIOLOGY

Professor Ball, Professor Reeves, Associate Professor Doak, Assistant Professors Gibbons, LaMotte, Talley, Hopkins, Mr. Foote, Mr. Brown, Mr. Evans.

BOTANY

101. *General Botany.* (3-4). *Credit* 4. I, II

External and internal form and structure; life processes of plants; types of various subdivisions of the plant-kingdom.

102. *Morphology and Taxonomy of Seed Plants.* (2-4). *Credit* 3. II

Designed to give a more thorough acquaintance with the structure and relationships of the higher plants. Open to students of Veterinary Medicine, Horticulture, Agronomy, and Arts and Sciences. Prerequisite: Biology 101.

211, 212. *General Biology.* (2-4). *Credit 3 each semester.*
Biological types and principles; interdependence of living things.

213. *Plant Physiology.* (2-4). *Credit* 3. I, II
Preparation for advanced work in agronomy and horticulture; physiology of growth, nutrition and reproduction in plants. Prerequisite: Biology 101.

346. *Systematic Botany.* (1-5). *Credit* 3. II
This course is designed to give the student such training in the systematic relationships of flowering plants as will enable him to determine by sight the family and generic groups so that with little further application species may be determined. Special attention will be given to a comparative study of the structures upon which modern systematic botany is based.

416. *Plant Diseases.* (2-4). *Credit* 3. II
Biology and classification of fungi with special reference to pathogenic forms; more important plant diseases occurring in Texas; routine methods of cultivation and identification; diagnosis and control. Prerequisite: Biology 101, 206.

ZOOLOGY

203, 204. *General Zoology.* (2-4). *Credit 3 each semester.*
Classification, morphology and physiology of representatives of the various phyla of animals.

207. *General Zoology.* (2-4). *Credit* 3. I, II
A study of animals of economic importance. Types of the various groups; origin, development and distribution of animals.

317, 318. *Comparative Vertebrate Anatomy.* (2-4). *Credit 3 each semester.*
Comparative anatomy of typical chordates; progressive development of organs and organ-systems. Prerequisite: Biology 203, 204.

341, 342. *General Physiology.* (3-4). *Credit 4 each semester.*
Prerequisite: Biology 203, 204 or 211, 212.
Course 341 open to students in Physical Education.
(See Veterinary Physiology and Pharmacology 341, 342).

343. *Histology.* (2-4). *Credit* 3. I
This course will offer a study of the cell in its various forms as exemplified in the tissues of the mammalia. A study will be made of the histological structure of the different types of muscle tissue, the nervous system, alimentary tissues, ductless glands, respiratory system, tissues of the reproductive, excretory and vascular systems.

344. *Embryology.* (2-4). *Credit* 3. II
This course will present the fundamental facts of vertebrate development, and is based on the work in histology. It will include a study of the origin of the germ layers, the formation of germ cells, fertilization, cleavage of the egg, and the development of the fetal membranes. The derivations of the ectoderm, mesoderm, and entoderm will receive especial attention.

The laboratory work will deal with the microscopic study of the whole mounts and serial sections of pig and chick embryos.

BACTERIOLOGY

206. *Introductory Bacteriology.* (2-4). *Credit 3.* I, II
Nature and relations of bacteria related to agriculture.
Prerequisite: Biology 101.

323. *Systematic Bacteriology.* (1-6). *Credit 3.* I
Relation of bacteria to other microorganisms and to each other. Method of isolation and identification of bacteria. Prerequisite: Biology 206.

324. *Water and Sewage Microbiology.* (1-6). *Credit 3.* II
Microorganisms in water and their importance; role of microroganisms in sewage purification; pathogenic microorganisms transmitted by water and sewage. Prerequisite: Biology 206.

FOR GRADUATES

501, 502. *Plant Morphology.* (2-6). *Credit 4 each semester.*
Comparative plant morphology with emphasis on seed plants; morphological technique; taxonomic applications.

503, 504. *Advanced Vertebrate Zoology.* (2-6). *Credit 4 each semester.*
Comparative anatomy of vertebrate types. Origin and development of organs and organ systems.

505, 506. *Advanced Bacteriology.* (2-6). *Credit 4 each semester.*
Advanced methods of bacteriological analyses.

509, 510. *Advanced Plant Physiology.* (2-6). *Credit 4 each semester.*
Responses of the plant to various external and internal stimuli; physiology of growth, nutrition and reproduction.

511, 512. *Biochemistry of the Cotton Seed.* (2-6). *Credit 4 each semester.*
Composition of the various organs and tissues of the cotton seed; standard microchemical methods.

513, 514. *Advanced Plant Pathology.* (2-6). *Credit 4 each semester.*
Morphology and physiology of pathogenic fungi.

515, 516. *Cytology.* (2-6). *Credit 4 each semester.*
An intensive study of the organization and activities of the cell; cytological technique. Emphasis is placed upon topics related to heredity.

517, 518. *Advanced Invertebrate Zoology and Parasitology.* (2-6). *Credit 4 each semester.*
Morphology, taxonomy, biology and phylogeny of invertebrate animals; second semester devoted to parasites and laboratory methods in parasitology.

573, 574. *Research in Plant Pathology. Credit 2 to 6.*
Research in plant pathology on problems and under conditions characteristic of the Experiment Station. The student will be held responsible for mastery of the literature relating to his problem and for an acceptable report of his investigation. Offered only by individual agreement.

DEPARTMENT OF CHEMISTRY AND CHEMICAL ENGINEERING

Professor Hedges, Professors Brayton, Burchard, Jensen, Bauer, Associate Professor Bishop, Assistant Professors Koenig, B. C. Jones, Harter, Harrington, W. M. Potts, Mr. Snuggs, Mr. Middleton, Mr. Samuelson, Mr. Taggart, Mr. Harris, Mr. Eads, Mr. Tanzer

CHEMISTRY

101. *General Inorganic Chemistry.* (3-3). *Credit* 4. I, II

Fundamental laws and theories of chemical activity. Practical application of the more important chemical processes involving non-metals are briefly described.

General laboratory work deals with non-metals and simple tests of technical importance supplementing lecture demonstrations.

102. *General Inorganic Chemistry.* (3-3). *Credit* 4. II

Fundamental theories of structure and activity. Practical application of the more important chemical processes involving metals described. Organic chemistry is briefly outlined.

Laboratory work consists of elementary qualitative separation and identification of metallic and non-metallic ions. Prerequisite: Chemistry 101.

103. *General Inorganic Chemistry.* (3-4). *Credit* 4. I, II

Same as course 101 with the addition of one hour of laboratory per week.

104. *General Inorganic Chemistry.* (3-4). *Credit* 4. II

Same as course 102 with the addition of one hour of laboratory per week Prerequisite: Chemistry 103.

205. *Qualitative Analysis.* (3-6). *Credit* 5. I

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 102.

206. *Organic Chemistry.* (3-2). *Credit* 4. I

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 102.

207. *Quantitative Analysis.* (2-3). *Credit* 3. I

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 102.

208. *Technical Analysis.* (1-3). *Credit* 2. II

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.

212. *Agricultural Chemistry.* (3-0). *Credit* 3. I, II

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. I, II

Chemical analysis of feeds, fertilizers, soils, insecticides, and fungicides. Prerequisite: Chemistry 102.

To be taken with Chemistry 212.

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 a basis of the course. The student here familiarizes himself with the reactions, properties and relations of typical organic compounds. Prerequisite: Chemistry 102.

308. *Dyeing.* (3-3). *Credit* 4. II

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 102.

(Offered in alternate years. Not offered in 1936-37).

323. *Physical Chemistry.* (3-3). *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, Chemical Engineering 202 and Mathematics 204.

324. *Physical Chemistry* (3-3). *Credit* 4. II

Intensive study of homogenous and hetrogenous equilibria, the phase rule, chemical kinetics, catalysis, hydrogen-ion concentration, electrolytic and galvanic cells and electrochemistry, photochemistry, and radio activity. Prerequisite: Chemical Engineering 411.

326. *Physiological Chemistry.* (3-3). *Credit* 4. II
A study of the chemical composition of living matter, and the fundamentals of digestion and nutrition. Prerequisite: Chemistry 206 or 301.

342. *Physical Chemistry.* (3-4). *Credit* 4. II
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 206 or 301, and 207, or Chemical Engineering 202.

438. *Seminar.* (1-0). *Credit* 1. II

443, 444. *Animal Biochemistry.* (3-3). *Credit* 4 *each semester.*
The chemistry of cell constituents and their utilization in the animal body. Prerequisite: Chemistry 302.

445, 446. *Plant Biochemistry.* (3-3). *Credit* 4 *each semester.*
A study of the chemical processes in the growth and development of plants. Prerequisite: Chemistry 302

FOR GRADUATES

501, 502. *Advanced Agricultural Chemistry.* (2-6). *Credit* 4 *each semester.*
Similar to courses 212, 214, with more advanced work.

507, 508. *Advanced Organic Chemistry.* (2-6). *Credit* 4 *each semester.*
Analysis and preparation of organic compounds. Prerequisite: Chemistry 302.

511, 512. *Advanced Physical Chemistry.* (3-3). *Credit* 4 *each semester.*
An intensive study of physical and electro chemistry. Prerequisite: Chemical Engineering 418.

513, 514. *Research. Credit* 1 *to* 4 *each semester.*

571, 572. *Special Topics in the Chemistry of Animal Nutrition.* (2-6). *Credit* 4 *each semester.*

Vitamins, amino acids, mineral content 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 each 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.* (2-6). *Credit 4 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, such as its application to the cotton seed oil industry, petroleum technology, problems of sanitation, or the chemical control of ceramics. The chemical industries most highly developed in this state are inspected from time to time.

202. *Elementary Quantitative Analysis.* (2-8). *Credit* 5. II

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.

304. *Unit Operations.* (3-3). *Credit* 4. II

A study of the operations and equipment involved in the processing of materials as represented by conveying, crushing and grinding, filtration and other separations, extractions, agitation and crystallization. Material balances, physical tests, and chemical analyses on separate processes or a combination of several operations are an important part; power tests will be made when feasible. The student will be trained to plan and correlate his work with others. Prerequisite: Chemistry 301 and Chemical Engineering 202.

400s. *Industrial Analysis. Second term summer following sophomore or junior year. Credit* 4. S

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.

408. *Metallurgy of Iron and Steel.* (2-0). *Credit* 2. I, II

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 there from; the chemistry of the different kinds of steel and their adaptability in engineering practice. Prerequisite: Chemistry 102.

409. *Oil and Gas Technology.* (3-3). *Credit* 4. I

Application of principles of Chemistry and engineering to evaluation and treatment of petroleum and its products. Prerequisite: Chemistry 302 and Chemical Engineering 304.

414. *Sanitary Chemistry.* (3-4). *Credit* 4. II

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.

419. *Petroleum Refining.* (3-0). *Credit* 3. I

The application of chemical theories and laws to the refining of petroleum. Prerequisite: Mechanical Engineering 323.

422. *Animal and Vegetable Oils.* (3-4). *Credit* 4. II

Chemical examination of animal and vegetable oils with special reference to the detection of adulterants. Prerequisite: Chemistry 302.

423. *Unit Operations.* (3-3). *Credit* 4. I

This is a continuation of Chemical Engineering 304, taking flow of fluids, heat transfer, evaporation, drying, absorptions and distillation. Prerequisite: Chemical Engineering 304.

424. *Unit Operations.* (3-3). *Credit* 4. II

Industrial applications of cements, soaps, pulp and paper, organic synthetics, fuels, glass, rubber and many others. Library work, leading to preparation of oral and written reports. Prerequisite: Chemical Engineering 423.

426. *Design.* (3-3). *Credit* 4. II

Special problems in the design of chemical engineering equipment and investigation of process development including specifications, drawings and estimates. Prerequisite: Chemical Engineering 423.

FOR GRADUATES

503, 504. *Advanced Industrial Chemistry.* (2-6). *Credit* 4 *each semester.*

A study of industrial processes. Prerequisite: Chemistry 302.

509, 510. *Cotton Seed Oil.* (2-6). *Credit* 4 *each semester.*

A study of cotton seed oil production and refining. Prerequisite: Chemistry 302.

DEPARTMENT OF CIVIL ENGINEERING

Professor Richey, Professors McNew, Munson, Grinter, Associate Professors Sandstedt, J. A. Orr, Assistant Professor C. S. Adams.

201. *Plane Surveying.* (3-4). *Credit* 4. I, II

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.

202. *Railroad and Highway Engineering.* (2-6). *Credit* 4. II

Outlining reconnaissance, preliminary, and location surveys, computing and staking out simple and compound curves; changes in alignment, and connecting curves; transition curves; cross sectioning, earth work, computations; track materials. Prerequisite: Civil Engineering 201.

206. *Plane Surveying.* (1-3). *Credit* 2. I, II

Fundamental principles of surveying; use of transit and level; boundary surveys, area computations, profile surveys. Prerequisite: Mathematics 103.

300s. *Surveying Practice, summer session, 6 weeks. Credit* 4. S

First six weeks of summer session following sophomore year.

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.

305. *Mechanics of Materials.* (4-0). *Credit* 4. 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; Mechanical Engineering 212 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; flow of viscous fluids. Prerequisite: Mechanical Engineering 212 or equivalent.

315. *Strength of Materials Laboratory.* (0-2). *Credit* 1. I, II

Determination of the strength, ductility, modulus of elasticity, and other properties of engineering materials. Tests of timber, steel, cast iron, cement, concrete, and reports showing results. Prerequisite: Civil Engineering 305 or registration in that course.

335. *Mapping and Cost Estimating.* (0-4). *Credit* 1. I

Topographic mapping; profiles, plans, and calculations of quantities for engineering projects; cost estimates of materials and labor by several methods; consideration of overhead, contingencies, interest, depreciation costs, and profit; systematic filing of cost data and reference to current costs of materials, labor, and construction.

336. *Hydraulics Laboratory.* (0-2). *Credit* 1. II

Calibration of nozzles, orifices, water meters, weirs, pressure gauges; measurement of pipe friction; measurement of pipe flow with pitot instrument and Venturi meter; efficiency tests on impulse motor, hydraulic ram, and centrifugal pump; solution of assigned problems. Prerequisite: Civil Engineering 311 or registration therein.

344. *Mechanics of Reinforced Concrete.* (2-0). *Credit* 2. II

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.

345. *Stresses in Structures.* (3-3). *Credit* 4. I

Loads and reactions for simple structures; algebraic and graphical determination of the stresses in trusses, chiefly those for roofs and bridges. Practice periods devoted to problems in the determination of reactions and stresses, followed by exercises in the design of tension and compression members and beams, with riveted, welded, and bolted connections. Prerequisite: Mechanical Engineering 212 and Civil Engineering 305 or registration therein.

346. *Structural Analysis and Design.* (3-3). *Credit* 4. II

Continuation of the analysis of structures as begun in Course 345, with greater attention given to moving loads, transverse bents, and the less simple forms of trusses; analysis of the steel plate girder. Practice in designing and detailing small roof trusses of wood and steel. Prerequisite: Civil Engineering 305, 345.

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, Mechanical Engineering 212.

414. *Reinforced Concrete Design.* (2-3). *Credit* 3. II

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 or equivalent.

417. *Bituminous Materials.* (2-3). *Credit* 3. I

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.

443. *Materials of Construction.* (0-4). *Credit* 1. II

A laboratory study of the suitability of various materials of engineering including brick, stone, sand, gravel, cement, mortars, concrete. Prerequisite: Civil Engineering 407.

448. *Engineering Economy.* (3-0). *Credit* 3. I

Comparison of engineering plants or projects on the basis of first cost; ultimate economy of comparisons involving depreciation, operating expense, etc.; accounting records and cost records; estimating costs. Prerequisite: Junior classification in engineering.

452. *Structural Engineering.* (2-3). *Credit* 3. II

An introduction to the design of continuous structures of reinforced concrete and steel such as rigid frame bridges, arches, and building frames. Laboratory practice involves tests on structural models by the aid of strain gages, deformeter gages, and the photoelasticity polariscope.

456. *Highway Administration and Design.* (2-3). *Credit* 3. II

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.

458. *Hydraulic Engineering.* (3-0). *Credit* 3. II

An elementary study of the control and utilization of water resources for irrigation, power, and flood protection; correlation of rainfall and stream flow by means of isohyetals and hydrographs; channel improvement, levee design, detention basin operation; design of pumping plants and other hydraulic structures. Prerequisite: Civil Engineering 311.

463. *Hydrology.* (3-0). *Credit* 3. I

A study of the occurrences and measurement of precipitation and stream flow; relations between precipitation and run-off; estimating seepage, evaporation, run-off, surface, and flood discharges for drainage basins. Prerequisite: Civil Engineering 311.

465. *Masonry and Foundations.* (2-2). *Credit* 3. I

Brick and stone masonry; cement and aggregates; theory of proportioning concrete; methods of mixing, placing, and caring for concrete; plain concrete structures; bins, chimneys, dams, and retaining walls; form work; geology of soils; soil properties and tests; soil moisture; permeability; cohesion and internal friction; compressibility and consolidation; stress distribution in soils; bearing capacity of soils; bearing capacity of piles; settlement of structures; types of foundation for structures; stability of slopes. Practice in determination of pressures on retaining walls and foundations; design of a retaining wall and foundation. Prerequisite: Civil Engineering 344.

466. *Professional Relations.* (2-0). *Credit* 2. II

A study of the responsibilities, duties, and opportunities of the engineer in his various capacities, such as inspector or junior engineer, salaried executive, independent consulting engineer, with special reference to the civil engineering field; brief study of contracts and engineering specifications; lectures, partly by visiting professional men, planned to enable the young engineer to fit most advantageously into the professional, industrial, and civic life of his community. Prerequisite: Senior classification in Civil Engineering.

467. *Steel Bridge Structures.* (2-4). *Credit* 3. I

Interpretation of specifications; analysis and design of structural details of riveted and welded bridges; study of bridge floors—load distribution and design; analysis of long-span and movable bridges of statically determinate types; determination of truss deflections, graphically and algebraically; introduction to the theory of swing bridges that involve a single redundant. The practice consists chiefly in making the design and a singled drawing for a low-truss highway bridge. Prerequisite: Civil Engineering 346.

469. *Steel Building Structures.* (2-3). *Credit* 3. I

Interpretation of building codes and of underwriters' specifications, study of specifications for welded steel buildings and analysis and design of office and industrial steel buildings; study of continuous beams by balancing moments and the conjugate beam. Attention is given to various industrial structures such as crane trusses, grain bins, and towers for water tanks and for oil-fractionating plants. The practice consists in making the design and one detailed drawing of the welded frame for an industrial building. Prerequisite: Civil Engineering 346.

FOR GRADUATES

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.

531, 532. *Advanced Structural Analysis and Design.* (3-3). *Credit* 4 *each semester.*

Analysis of stresses in rigid frames; secondary stresses; analysis of cantilever, suspension, and continuous bridge trusses. Design of reinforced concrete arch and building frame.

533, 534. *Advanced Mechanics of Materials.* (4-0). *Credit* 4 *each semester.*

Deflections of structures; internal stresses in members and details determined by mathematical analysis, mechanical methods, and study of test data.

541, 542. *Research. Credit* 2 *to* 6.

Technical research; projects subject to approval of head of department.

DEPARTMENT OF DAIRY HUSBANDRY

Professor Shepardson, Professor Darnell, Associate Professor Renner, Assistant Professor Rink.

202. *Dairying.* (2-2). *Credit* 3. I, II
Dairying in its relation to agricultural and community development; branches of dairy industry and conditions affecting their development; the place of dairying on the farm; composition and food value of milk and its products; the production and handling of clean milk on the farm.

301. *Market Milk.* (3-2). *Credit* 4. I
Nutritional value of milk; milk and public health; organization of city milk supplies; processing and distribution and inspection of market milk. Prerequisite: Dairy Hsubandry 202, must have had or be taking Dairy Husbandry 320 or its equivalent.

303. *Dairy Cattle Judging.* (0-4). *Credit* 1. I
A study of comparative judging of dairy cattle.

306. *Butter Making and Factory Management.* (3-2). *Credit* 4. II
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.

307. *Judging Dairy Products.* (0-3). *Credit* 1. I
Practice in judging and scoring dairy products according to established market grades.

310. *Advanced Dairy Cattle Judging.* (0-2). *Credit* 1. II
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.* (2-3). *Credit* 3. II
Methods of analysis of milk and milk products, and their use in controlling the composition and purity of dairy products and in the detection of adulterations. Prerequisite: Dairy Husbandry 202, Chemistry 212, 214.

320. *Bacteriology of Dairy Products.* (3-4). *Credit* 4. I
Relation of micro-organisms to quality in milk and milk products; a study of the actions of micro-organisms in the ripening of cheese, butter and fermented milks. Prerequisite: Biology 206.

322. *Advanced Dairy Bacteriology.* (2-3). *Credit* 3. II
A study of bacteriological problems in connection with dairy products. Prerequisite: Dairy Husbandry 320.

407. *Ice Cream Making and Refrigeration.* (3-2). *Credit* 4. I

Mixing and freezing ice cream, sherbets and other frozen products and the physical principles involved; types 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.

408. *Cheese Making and Advanced Testing.* (2-3). *Credit* 3. II

A study of the manufacture, ripening and marketing of the various types of chesse; analysis of dairy products. Prerequisite: Dairy Husbandry 202.

415. *Condensed Milk and Milk Powder.* (3-0). *Credit* 3. II

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.* (3-3). *Credit* 4. I

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. Consideration of the selection of breeds, individual cows and herd sires; studies of prominent families and individuals in the major dairy breeds; dairy cattle breeding and other problems of the breeder. Prerequisite: Dairy Husbandry 202 and Genetics 301.

418. *Feeding and Management of Dairy Cattle.* (3-2). *Credit* 4. II

The care, feeding and management of the dairy herd; calf raising, developing the dairy heifer; herd records and record keeping. Prerequisite: Animal Husbandry 303, Dairy Husbandry 202.

421, 422. *Seminar.* (1-0). *Credit* 1 *each semester.*

A review of current dairy literature and presentation of papers on selected dairy topics.

FOR GRADUATES

501, 502. *Advanced Dairy Production.* (2-6). *Credit* 4 *each semester.*

An advanced study of general production problems. Prerequisite: Dairy Husbandry 417, 418.

503, 504. *Advanced Dairy Manufactures.* (2-6). *Credit* 4 *each semester.*

An advanced study of general manufacturing problems. Prerequisite: Dairy Husbandry 301, 306, 407, 415.

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. Prerequisite: Dairy Husbandry 417, 418.

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. Prerequisite: Dairy Husbandry 301, 306, 407, 415.

DEPARTMENT OF ECONOMICS

Professor F. B. Clark, Professor I. G. Adams, Associate Professor Nutter, Mr. Elkins, Mr. Chalk.

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, introduction to banking, 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 business. Special attention is given to property and life insurance. Prerequisite: Economics 203, 204, or 403.

316. *Business Law.* (3-0). *Credit* 3. II
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. II
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. The same ground is covered as in course 203, 204, but in a more compact way.

408. *Corporation Finance.* (3-0). *Credit* 3. II
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.* II

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.* II

The purpose of the course is to give a working knowledge of public financial institutions and practices. 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.* I

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.

420. *Principles of Investment.* (3-0). *Credit 3.* II

The economic basis of investment, the elements of investment credit; private securities and public obligations; security price movement; investiment institutions. Prerequisite: Economics 403 or its its equivalent.

421. *Government and Industry.* (3-0). *Credit 3.* I

A comprehensive survey and a critical analysis of the reasons for the depression; legislation designed to afford temporary relief, stimulate recovering, regulate commerce and industry, and formulate long-term plans for better social use of our economic resources. Prerequisite: Economics 203, 204, or 403.

422. *Banking Principles and Practices.* (3-0). *Credit 3.* II

A critical study of the principal credit institutions of the United States and other nations. The major emphasis is placed on commercial credit. Some attention, however, is given to other credit institutions. Prerequisite: Economics 311 or its equivalent.

423. *Advertising.* (3-0). *Credit* 3. I

Place of advertising in business; 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, 204, or 403.

424. *Modern Transportation.* (3-0). *Credit* 3. I

A comprehensive survey of rail, motor, water, air and pipe line transportation, including the special operating, administrative, rate, financial, and regulatory problems of each and the problems and the technique of coordination. Prerequisite: Economics 403 or its equivalent.

FOR GRADUATES

Students undertaking graduate work in economics, along with the other requirements for admission to the graduate school, are required to have a background in principles of economics. The more of the related courses one has had the better prepared he will be to carry the work.

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. I

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 expenditures of public revenues in the United States and the principal European countries.

506. *Labor Problems.* (4-0). *Credit* 4. II

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 labor and wages.

507. *Comparative Economic Theory.* (4-0). *Credit* 4. I

This is a comparative study of the doctrines as they appear in modern economic literature. The purpose is, so far as possible, to associate the modern economists with any of the older schools to which they may logically belong or to give them distinctive positions to which their writings may entitle them.

DEPARTMENT OF EDUCATION

Professor W. L. Hughes, Professor Wilcox

121. *An Introduction to Education.* (3-0). *Credit* 3. I, II

221. *Rural School Methods.* (3-0). *Credit* 3. I
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. II
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, teacher institutes.

223. *Public School Instrumental Music.* (3-0). *Credit* 3. I
A general survey of the system of teaching instrumental music (band and orchestra).

224. *Public School Instrumental Music.* (3-0). *Credit* 3. II
The various instrumental groups used in band and orchestra. Conducting, phrasing, and general teaching methods. Ear training and simple melodic dictation.

321. *Secondary School Methods.* (3-0). *Credit* 3. I, II
Methods of teaching high school subjects; for students who expect to teach in city high schools.

322. *Secondary School Administration.* (3-0). *Credit* 3. II
The responsibilities of the teacher for the administration of the secondary school.

324. *Methods of Teaching High School Instrumental Music.* (2-0) *Credit* 2. II
This course is designed to prepare students to teach instrumental music in accredited high schools.

422. *History of Education.* (3-0). *Credit* 3. II
The history of modern education with special attention to the history of education in the United States.

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: Education 221, 222.

426. *Tests and Measurements.* (3-0). *Credit* 3. I
A study of the use of intelligence and achievement tests in administration and supervision of public schools. Prerequisite: Junior or Senior standing.

428. *Junior High School Methods.* (3-0). *Credit* 3. II
This course will introduce the student to the modern practices of teaching in the Junior High School. Prerequisite: Psychology 323.

430. *Curriculum Orientation.* (3-0). *Credit* 3. II
Problems and lectures in revising and adjusting the public school curriculum to meet the needs of modern society. Prerequisite: Junior or Senior standing.

431. *An Introductory Course in Techniques of Curriculum Construction.* (3-0). *Credit* 3. S
An introduction to the problems faced in the work of curriculum production and the current practices employed in solving them. Emphasis is placed upon preliminary survey, planning the curriculum, organizing materials, and course of study construction.

432. *Organization and Administration of the Public School Curriculum.* (3-0). *Credit* 3. S
This course deals with the organization and content of the new State Curriculum Revision Program courses of study. Problems of content, installation, sequence, grade placement, integration, and evaluation. Prerequisite: Six semester hours of advanced courses in education.

FOR GRADUATES

501. *Problems in Rural Education.* (4-0). *Credit* 4. I
The rural school problem in the United States, including problems in related fields.

502. *County School Administration.* (3-0). *Credit* 3. II
The organization and administration of a county system of schools operating under a district system.

504. *The Development of Education in Texas.* (2-0). *Credit* 2. II
The origin and development of public schools in Texas.

507. *Programs and Procedures in Supervision.* (2-0). *Credit* 2. I
Types of supervision and the organization of supervisory programs.

508. *Administration of Local School Finance.* (2-0). *Credit* 2. II
A study of school funds on the local school level; sources, budgeting, systems of accounting as related to school efficiency.

510. *Administration of Pupil-Personnel.* (2-0). *Credit* 2. II
A study of devices to record and improve census taking and attendance; classification and promotional schemes; school record systems; school reports and pupil appraisal studies, marketing systems.

511. *The Newer Techniques in Teaching.* (4-0). *Credit* 4. I
A critical evaluation of such techniques as supervised study, the project, the problem, the Dalton Plan, the Winnetka Plan, the Activity Movement, the appreciation lesson, the Morrison Plan, and the use of work books.

512. *Interpreting the Schools to the Public.* (2-0). *Credit* 2. II

A study of types of programs designed to give to the public comprehensive information of the local school; devices and media used in presenting information.

513. *The School Plant.* (2-0). *Credit* 2. I

A study of plans for determining the extent and character of present and future building and equipment needs of a school unit; efficiency of present plant; operation and maintenance; planning the building program.

514. *State School Finance.* (2-0). *Credit* 2. II

A study of taxation for school support; apportionment of state school funds; endowments and subsidies; equalizing educational opportunities and tax burdens.

515. *State School Administration.* (2-0). *Credit* 2. I

A study of state school administrative organizations; origin and development of local units; proper relationships of the State to local units; state boards of education and their functioning; training and certification of teachers.

516. *Administration of Teacher-Personnel.* (2-0). *Credit* 2. II

A study of selection, tenure, and promotion of teachers, including in-service training; efficiency records and ratings.

DEPARTMENT OF ELECTRICAL ENGINEERING

Professor M. C. Hughes, Professors Bolton, Markle, Rode, Dillingham, Associate Professors Fouraker, Ward, Assistant Professor Haupt, Mr. Ray.

201. *Electricity and Magnetism.* (3-6). *Credit* 5. I, II

Lectures, recitations and problems in electricity and magnetism.

A laboratory investigation of the phenomena studied in the text-book. Prerequisite: Mathematics 102, 104.

204. *Electric Wiring and Repair.* (2-4). *Credit* 3. II

A study of elementary electric circuits. Practice in electric wiring and the repair and construction of simple electric appliances. Prerequisite: Physics 201.

208. *Direct Current Machinery.* (3-6). *Credit* 5. II

A study of the application of the fundamental laws of the electric and magnetic circuit to the design and operation of the direct current motor and generator.

The laboratory work includes practice in wiring up and the operation of D. C. dynamos and motors; the determination of characteristic and the measurement and calculation of losses, efficiencies and regulation. Prerequisite: Electrical Engineering 201, Mathematics 102, 104.

305. *Electrical Machinery.* (3-3). *Credit* 4. I, II

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 of the more important characteristics of both direct and alternating current machines. Prerequisite: Physics 204, Mathematics 204.

307, 308. *Electrical Machinery.* (3-3). *Credit* 4 *each semester.*

A study of the fundamental principles of direct and alternating current machinery, including electron tubes, 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, transformers, and electron tubes. Prerequisite: Physics 204, Mathematics 204.

310. *Communication Engineering.* (2-2). *Credit* 3. II

A study of the principles of electrical communication systems, including a basic study of sound speech and hearing, transmitters and receivers, exchange and toll service and systems, and telegraph systems.

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.

315. *Alternating Currents.* (3-6). *Credit* 5. I

Principles of alternating currents. The steady-state relations of voltage and current in simple circuits containing resistance, self inductance, mutual inductance and capacitance. Power and power factor, polyphase circuits. The practice consists of laboratory studies of the topics mentioned above. Prerequisite: Electrical Engineering 201 and Mathematics 204.

316. *Circuit and Field Theory.* (5-0). *Credit* 5. II

Transients in direct current and alternating current circuits; steady-state relations in more complicated networks; non-linear circuits; calculation of electric and magnetic field intensities and field mapping. Introduction to the subject of symmetrical components. Prerequisite: Electrical Engineering 303 and Mathematics 305.

318. *Electrical Measurements.* (0-6). *Credit* 2. II

Laboratory studies of the various instruments and methods available and the measurement of resistance, inductance and capacitance; voltage and current in AC and DC circuits; power, power factor and phase angle; frequency and wave shape; magnetic flux and iron losses. Prerequisite: Electrical Engineering 315.

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 316 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 316 or 308, registration in Electrical Engineering 401, 402.

405. *Electric Transmission.* (3-0). *Credit 3.* I
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 316.

406. *Electric Distribution and Transmission.* (2-2). *Credit 3.* II
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. *Radio Communication.* (3-3). *Credit 4.* I
An introduction to radio engineering, including a basic study of radiation and radiation devices, thermionic tubes and their application in radio receiving and transmitting circuits.

410. *Electron Tubes.* (2-3). *Credit 3.* II
An introduction to the theory and industrial application of electron tubes and devices, including thermionic, gaseous, light sensitive, and cathode ray tubes. The laboratory shall consist primarily of experimental studies of the performance characteristics of electron tubes.

416. *Motor Applications.* (3-0). *Credit 3.* II
The determination of the proper sizes and types of motors to be applied in 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.* (3-3). *Credit 4.* I
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 316 or 308 or 305.

428. *Communication Circuits.* (3-3). *Credit 4.* II
A study of the engineering principles used in telephone communication, including transmission theory, inductive interference, networks, and filters, loading, repeater and carrier systems. Laboratory investigations include transmission measurements on artificial lines and repeaters involving the use of vacuum tube measuring devices and impedance bridges. Prerequisite: Electrical Engineering 405.

431. *Engineering Administration.* (2-0). *Credit* 2. I

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. II

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. *Electrical Equipment for Buildings.* (3-0). *Credit* 3. II

The application of electrical equipment in building construction including a study of electrical material and method of installation; principles of electrical circuit design and wiring system commonly employed; electrical machinery; elevators; illumination both for interior lighting and floodlighting; and electrical acoustical aids. (Offered in alternate years. Not offered in 1937-38).

FOR GRADUATES

501, 502. *Advanced Alternating Currents.* (2-6). *Credit* 4 *each semester.*

The theory of transient phenomena; polyphase circuits; the study of transients with oscillograph.

503. *Electrical Machine Design.* (1-3). *Credit* 2. I

The design of electrical machines and the predetermination of their characteristics.

504. *Electrical Plant Design.* (1-3). *Credit* 2. II

The design of power plants with special emphasis on the electrical machinery.

507, 508. *Advanced Alternating Current Machinery.* (2-6).
Credit 4 *each semester*

A study of the complicated alternating current machines.

509. *Advanced Communication Engineering—Telephony.* (3-3). *Credit* 4. I

A study of the design and operation of telephone repeater and carrier systems, filters, networks, and transmission measuring devices; laboratory investigations to include frequency characteristics of telephone lines, and transmission measurements on typical networks, lines, and repeaters.

510. *Advanced Communication Engineering—Radio.* (3-3). *Credit* 4. II

A detailed study of the design and operation of sound amplifiers, and of radio frequency systems with particular reference to radiating devices. Oscillographic studies and field strength measurements are the major laboratory investigations.

512. *Application of Electrical Machinery to Industrial Operations.* (4-0).
Credit 4. II

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.* (4-0). *Credit* 4 *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.

516. *Acoustic Devices in Sound Reproducing Systems.* (3-3). *Credit* 4. II
A detailed study of microphones and loud speakers with an introduction to the basic theory of vibrating systems, and a brief study of architectural and physiological acoustics incident to the proper application of sound reproducing systems. Laboratory work includes measurements of speakers and microphones, noise surveys, and acoustical treatment of small auditoria.

517, 518. *Research in Electrical Engineering. Credit 2 to 6 each semester.*
Technical research projects approved by the head of the department.

520. *Advanced Illuminating Engineering.* (3-3). *Credit* 4. II
A study of fundamentals of illuminating engineering concepts; advanced design of various types of lighting installations; problems of a research character.

DEPARTMENT OF ENGINEERING DRAWING

Professor A. Mitchell, Assistant Professors Dent, Spencer, Mr. Breland, Mr. McGuire, Mr. J. P. Oliver, Mr. Loving

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, multiview projection, and pictorial drawing, technical sketching, dimensioning, drawing, principles and practice in working drawings.

112. *Mechanical Drawing.* (0-4). *Credit* 1. II
A continuation of course 111, including elementary parts of machines and engineering structures; details and assemblages; Patent Office Drawing, tracing, blueprinting. The course is varied to meet the practical needs of students in the different engineering departments. Prerequisite: Eng. Drawing 111.

124. *Descriptive Geometry.* (2-2). *Credit* 3. I, II
Problems relating to points, lines, planes; solids, intersections of planes and solids, intersections of solids, development of surfaces.

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. Special opportunities are available for projects relating to heating, ventilating, air conditioning, water treatment, and sewage treatment.

DEPARTMENT OF ENGLISH

Professor Summey, Professors Cofer, Spriggs, Mayo, Morgan, Associate Professors Gunter, Spahr, Assistant Professors Key, Abbott, Hays, Mr. Stone, Mr. Elmquist, Mr. Wilkinson, Mr. R. E. Clark, Mr. Hedgcock, Mr. Sakowitz.

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
Advanced composition; readings from nineteenth century and recent literature. Prerequisite: English 103, 104.

210. *Writing and Discussion.* (2-0). *Credit 2.* II
A study of basic thought processes and their application to written and oral discussion; practice in outlining, writing, and speaking; parallel readings. Prerequisite: English 103, 104.

NOTE: For English 210, students who have made an average grade of C in courses 103, 104, and 203 may substitute English 305, 310, 316, 325, or 328.

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.* II
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, 210, 231, or 232.

NOTE: For English 307, Agricultural and Veterinary Medicine students may substitute course 317. Agricultural students who have made an average of C 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. I
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. II
A study of the formation of English sounds and of usage in pronunciation. Prerequisite: English 231, 232, or 203, 210.

312. *Shakespeare.* (3-0). *Credit* 3. II
The life, environment, and major dramatic works of Shakespeare. Prerequisite: English 231, 232, or 203, 210.

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.
(Not offered in 1937-38.)

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.
(Not offered in 1937-38.)

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 C in the prerequisite course. Prerequisite: English 203 or 231.

328. *American Literature Since* 1870. (2-0). *Credit* 2. II
A study of recent American writing, chiefly prose, with attention to the intellectual and social movements reflected in the literature. Limited to students who have made an average grade of C in the prerequisite course. 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.

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.

(Not offered in 1937-38.)

415. *Contemporary Continental Drama.* (2-0). *Credit 2.* I

A study of representative plays (in translation) by Ibsen, Strindberg, Hauptmann, Sudermann, Schnitzler, Maeterlinck, Rostand, Hervien, Brieux, Benavente and Pirandello. Prerequisite: English 231, 232, or 203, 210.

416. *Contemporary English Drama.* (2-0). *Credit 2.* II

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.

431. *The Novel.* (3-0). *Credit 3.* I

Its origin and development and its reflection of life and personality. Reading, 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.

(Not offered in 1937-38.)

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.

204. *Insecticides and their Applications.* (2-2). *Credit 3.* II

The physical and insecticidal properties of arsenicals, fluorine compounds, lime sulphur, and nicotine mixtures. Preparation and application of dust and sprays, and methods of fumigation. Dusting, spraying and fumigating machinery are used in practice.

208. *Animal Parasites.* (2-2). *Credit 3.* II

A study of insects and other arthropods which are parasitic upon domestic animals or which are concerned in the transmission of diseases of live stock. Methods of eradication and control. Prerequisite: Entomology 201.

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.

305, 306. *Morphology.* (2-3). *Credit 3 each semester.*
A study of the external and internal anatomy of insects, with special emphasis on the structure of mouth parts. The second semester is devoted to a study of wing veination.

307. *Apiculture.* (3-2). *Credit* 4. I
A study of the life history of the honey bee, swarm control, division, feeding, wintering, and general management of an apiary.

308. *Apiculture.* (3-2). *Credit* 4. II
The anatomy and physiology of the honey bee; honey plants, bee diseases, and queen rearing are considered.

312. *Medical Entomology.* (3-2). *Credit* 4. II
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.
(Offered in alternate years. Not offered in 1937-38.)

401, 402. *Advanced Economic Entomology.* (2-4). *Credit 3 each semester.*
For students who desire knowledge of insect life histories; the physical and chemical properties of insecticides and the effects on insects, methods of entomological research. Prerequisite: Entomology 201 or 301.

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.

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.

412. *Entomological Literature.* (3-0). *Credit* 3. II
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. II
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.* (3-2). *Credit* 4 *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.* (3-3). *Credit* 4 *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.

503, 504. *Cotton Insects.* (3-3). *Credit* 4 *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.

505, 506. *Advanced Apiculture.* (3-3). *Credit* 4 *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.* (3-3). *Credit* 4 *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 most important crops. Cultural methods, trap crops, insecticides, and fumigation.

509, 510. *Microtechnique.* (3-3). *Credit* 4 *each semester.*

A study of insect tissue; methods of making microscopic slides, making sections and staining tissues.

511, 512. *Research Entomology.* (3-3). *Credit* 4 *each semester.*

A study of the distribution of insects and the ecological relationship to their environment. Prerequisite: Taxonomic work.

513, 514. *Morphology.* (3-3). *Credit* 4 *each semester.*

Study of the morphological characteristics which are of taxonomic value including wing veination, genitalia and other external characteristics.

DEPARTMENT OF GENETICS

Professor Humbert, Professor Godbey, Associate Professor Quisenberry

301. *Genetics.* (3-2). *Credit* 4. I, II

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; and introduction to biometrical methods; laboratory work with Drosophila. Prerequisite: Biology 101.

304. *Plant Breeding.* (3-2). *Credit* 4. II

Improvement of field, forage and horticultural crops by hybridization and selection. Prerequisite: Genetics 301.

306. *Animal Breeding.* (2-2). *Credit* 3. II

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. Genetic analysis of pedigrees. Prerequisite: Genetics 301.

403. *Eugenics.* (2-0). *Credit* 2. 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

A general study of eugenics and eugenic reform, and certain genetic principles underlying human heredity.

FOR GRADUATES

501, 502. *Advanced Plant Genetics.* (3-4). *Credit* 4 *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.* (3-4). *Credit* 4 *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.

505, 506. *Advanced Biometry.* (3-4). *Credit* 4 *each semester.*

The application of certain biometric principles to the interpretation of genetic data.

507, 508. *Genetic Studies in Cotton.* (3-4). *Credit* 4 *each semester.*

A detailed study of cotton genetics and breeding for students especially interested in cotton.

509, 510. *Research Problems. Credit* 1 *to* 4 *each semester.*

Technical research problems subject to approval of head of department.

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 proceedure; stapling; ginning. Students electing this course must first be familiar with the fundamentals of genetics and agronomy. Mr. Killough.

DEPARTMENT OF GEOLOGY

Professor Baker, Associate Professor Burt, Assistant Professor Turner, Mr. Goldich, Mr. Bacon

201. *General Geology.* (3-0). *Credit* 3. I

The agents and processes which have produced surface features of the earth and the structure of the earth's crust. Petroleum Engineering students should take this course at the same time as Geology 207. Prerequisite: Chemistry 101, or equivalent.

202. *Historical Geology.* (3-3). *Credit* 4. II

Hypotheses of the earth's origin. Principles of stratigraphy and paleontology. The physical and organic record of the earth's history. Prerequisite: Geology 201 and 207 or 401 and 207.

203, 204. *Mineralogy and Rock Study.* (3-4). *Credit* 4 *each semester.*

Systematic study of crystallography. Determination of minerals by physical properties and blowpipe analysis. Occurrence, associations, and origin of minerals. Mineralogical and chemical composition of rocks; their occurrence, origin, and alteration. Field classification of rocks. Prerequisite: Chemistry 104 and Mathematics 103, or equivalents.

207. *Mineralogy and Petrology.* (3-4). *Credit* 4. I

A brief course in mineralogy and petrology. Description and determination of common rock-forming minerals and rocks. Petroleum Engineering students should take this course along with Geology 201. Prerequisite: Chemistry 101, or equivalent.

301, 302. *Fundamentals of Geology.* (4-4). *Credit* 5 *each semester.*

Elementary climatology, interpretation and origin of land forms, dynamic and tectonic processes, stratigraphy and sedimentation, physical and organic history of the earth. Laboratory work and conferences on topographic and geologic maps. Prerequisite: Geology 204, Chemical Engineering 202 or Chemistry 207, Physics 202 or 204, and Biology 204 or 207.

303, 304. *Petrography and Petrology.* (3-4). *Credit* 4 *each semester.*

Principles of optical mineralogy. The identification and study of minerals in thin section by immersion media technique. The classification, occurrence, and origin of rocks. Prerequisite: Geology 204, Physics 202, or equivalents, and approval of head of department.

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 or 302, Biology 204 or 207, or equivalent, and approval of head of department.

312. *Structural Geology.* (3-4). *Credit* 4. I

The interpretation of rock structures caused by earth movements. The relation of rock structures to stratigraphic, physiographic, and economic problems. Prerequisite: Geology 202 or 302, and approval of head of department.

300s. *Field Geology.* (*Second summer term*). *Credit* 7. S

Geological observations and mapping in a mountain area exhibiting sufficient diversity of rock types, structures, and physiography. Credit is contingent upon student's preparing and submitting a full written report satisfactory to instructor, report to be submitted not later than October 15 of year in which course is taken. The field party will be organized not later than May 15. Prerequisite: Geology 202 or 302, and approval of head of department.

400s. *Field Geology. Second course.* (*First and second summer term.*) *Credit 7 each term.* S

Prerequisite: Geology 300s and approval of head of department.

401. *Geology for Engineers.* (2-3). *Credit* 3. II

An abbreviated study of general geology with special emphasis on erosion, deposition, underground water, rock structures affecting tunnel, foundation, and water supply projects, and other subjects relating to engineering work. The laboratory includes a study of common rocks and the interpretation of maps of typical geologic areas.

404. *Geology of Petroleum.* (3-0). *Credit* 3. II

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 hydro-carbons. Detailed studies of certain productive areas. A brief consideration of future problems related to this important mineral resource. Prerequisite: Geology 312 and approval of head of department.

405, 406. *Economic Geology.* (4-0). *Credit* 4 *each semester.*

Non-metallic and metallic mineral deposits including structural materials but not petroleum or natural gas. Prerequisite: Senior standing as geology major or fifth year ranking in geological engineering program, Geology 203 and 204, and a course in physical chemistry.

422. *Natural Structural Materials.* (3-0). *Credit* 3. II

Building stones and stone products, clays and clay products, their qualities, occurrence, uses, and processes of fabrication and manufacture with special reference to the great undeveloped wealth of Texas in these materials. Open to architectural and engineering students.

FOR GRADUATES

505, 506. *Special Geology. Credit 2 to 6 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. Prerequisite: Approval of head of department.

509, 510. *Advanced Field Geology. Credit 2 to 6 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.

511. *Economic Mineral Deposits.* (5-0). *Credit* 5. I
A study of the origin, classification, and exploitation of economic mineral deposits other than stone, clay, and fuels. Open to properly qualified seniors. Prerequisite: Geology 405.

513. *Earth Sculpture and Depositional Agencies.* (5-5). *Credit* 7. II
Advanced work in interpretation and origin of land forms (geomorphology and geomorphogeny). Laboratory work in the interpretation of modern topographic and other maps. Prerequisite: Approval of head of department.

514. *Advanced Stratigraphic and Historical Geology.* (5-2). *Credit* 6. II
Prerequisite: Geology 513.

516. *Micropaleontology.* (1-6). *Credit* 3. II
Study of microscopic fossils and their uses in correlation. Laboratory work in the examination of well samples. Prerequisite: Approval of head of department.

518. *Sedimentation.* (2-6). *Credit* 4 I, II
Investigation of processes of sedimentation with analytical laboratory work on sedimentary rocks. Seminar. Prerequisite: Approval of head of department.

DEPARTMENT OF HISTORY

Professor Gammon, Professor Sugareff, Assistant Professor Steen, Mr. Ludlum

105, 106. *History of the United States.* (3-0). *Credit* 3 *each semester.*
English colonization; the Revolution; adoption of the Constitution; growth of nationalism; cotton and the slavery problem; war for Southern independence; reconstruction; new social and industrial problems; World War; the New Deal. Full year continuous course.

211. *Comparative Government.* (3-0). *Credit* 3. II
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. Full year continuous course.

217, 218. *Development of Europe.* (3-0). *Credit 3 each semester.*

A survey of the political and social development of Western Europe, 550 A. D. to the present. The Middle Ages, the Renaissance; the Protestant Revolt; religious wars; emergence of modern states; the industrial revolution; rise of the middle classes; French Revolution and its consequences; imperialism; the World War and its aftermath. A continuous year course. Required of majors in History.

305. *American Government.* (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 government of Texas.

313. *The Latin-American Nations to* 1820. (3-0). *Credit 3.* I

The period when the Americas south of U. S. belonged to Spain and Portugal; discovery; colonial system; social and economic aspects; the wars of independence to the founding of the republics. A complete unit available for independent credit. Required of History majors.

(Offered in alternate years. Offered in 1937-38.)

314. *The Latin-American Republics to* 1937. (3-0). *Credit 3.* II

The twenty Latin-American republics since 1820; independence and the dictators; rise of the ABC states; Latin-American civilization after a century of independence; relations with Europe and with U. S.; the Pan-American movement; participation in world affairs. A complete unit available for independent credit. Required of History majors.

(Offered in alternate years. Offered in 1937-38.)

315. *The United States from Roosevelt to Roosevelt,* 1901-1936. *Credit 3.* S

A study of the United States history during the twentieth century. Emphasis is laid primarily on the development and application of progressive principles from the "square deal" of the first Roosevelt to include the "new deal" of the present administration; secondary emphasis is on the international relations of the United States as the nation became a world power, moved from isolation to leadership and back, followed by the development of the "good neighbor" policy toward Latin-America.

316. *The Institutional Background of Texas,* 1519-1845. (3-0). *Credit 3.* S

A study of the history of Texas from the Spanish period to annexation to the United States. Particular stress is placed upon the Spanish legal and administrative system, the Mexican administrative system, the establishment of Anglo-Americans in Texas, the revolution, the republic, and the fight for annexation. In each of these topics emphasis is placed upon principles and developments of this period which are reflected in the state's present-day society.

322. *Industrial History of United States.* (3-0). *Credit* 3. II

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.

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. Required of History majors.

(Offered in alternate years. Not offered in 1937-38.)

DEPARTMENT OF HORTICULTURE

Professor Adriance, Associate Professor Brison.

201. *Plant Propagation and Orcharding.* (2-2). *Credit* 3. I

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.

202. *Vegetable Gardening.* (2-2). *Credit* 3. II

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 soils and climatic requirements. Practice in planning, planting and cultivating a small garden, equipping, fertilizing, spraying, harvesting, erection of hot-beds and cold frames.

310. *Commercial Vegetable Production.* (2-2). *Credit* 3. II

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.

311, 312. *Fruits and Vegetable Products.* (1-3). *Credit* 2 *each semester.*

Methods of preservation of fruits and vegetables, including dehydration, canning, pickling, and freezing. Special attention will be given to the preparation of fruit and vegetable juices and to the processing of pecans.

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.

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.

404. *Systematic Vegetable Crops.* (2-2). *Credit* 3. I

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.

418. *Nut Culture.* (1-3). *Credit* 2. II

Early history; distribution of native nuts; development of native groves. 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.

422. *Subtropical Fruits.* (3-2). *Credit* 4. II

A study of subtropical fruits, with attention to citrus 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.

423. *Geography of Horticultural Industries.* (2-0). *Credit* 2. I

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. II

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. II

Fundamental problems in propagation of horticultural plants, principally fruit trees and ornamentals. Physiological responses in rooting of stem and leaf cuttings, 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.

FOR GRADUATES

501, 502. *Advanced Fruit Growing.* (3-3). *Credit* 4 *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.* (3-3) *Credit* 4 *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, or equivalent work.

507, 508. *Horticultural Problems.* (2-6). *Credit* 4 *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 Glenn

202. *Job 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.* (2-0). *or* (3-0). *Credit* 2 *or* 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). *or* (3-0). *Credit* 2 *or* 3. I
Organization of equipment and economical ways of securing materials as teaching aids, planning of daily programs; discipline and individual adjustment; grading; records and reports.

308. *A Study of Modern Industries.* (3-0). *Credit* 3. I
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). *or* (3-0). *Credit 2 or 3.* II
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.

320. *Aims and Objectives of Part-Time Schools.* (3-0). *Credit 3.* S
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 organizations 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, 112, 124, 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.

406. *Vocational Guidance.* (2-0). *Credit 2.* I
A survew of the recent development of educational and vocational guidance within and outside of the schools.

409. *Methods of Introducing Industrial Organization and Management into Industrial Schools.* (2-0). *Credit 2.* II
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.* S
The lesson, its purpose and aim; steps in lesson presentation; testing the effectiveness of instruction.

415, 416. *Practice Teaching.* (2-5). *Credit 4 each semester.*
Arrangements will be made for the student to do practice teaching in the Bryan High School Manual Training Department, or The A. and M. College Consolidated School.

418. *General Shop Methods.* (1-5). *Credit 3.* II
The student will organize material for general shop units and will practice these problems and projects which meet the requirements of the public school shop teacher.

419. *Laboratory of Industries Methods.* (1-5). *Credit 3.* I
The student will make a study of the units of industries as generally recommended for public school industrial arts and will select, plan, and design problems and projects to meet these requirements.

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

This course is to be conducted during the summer only and as a tour of inspection and research. Advanced 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. S

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. I

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. II

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. I

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. II

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. II

The organization of occupational information; educational and vocational guidance; counseling case problems. Prerequisite: I. E. 406 or a similar course.

515. *Research in Industrial Education.* (1-3). *or* (2-6). *Credit* 2 *or* 4. I

516. *Methods of Teaching High School Shop Work.* (2-3). *Credit* 3. II

A survey of the field of the particular shop activity in which the student is interested. Selecting, designing, building and organizing the instruction material for problems in the particular activities. This course to be conducted in cooperation with such departments as Mechanical Engineering and Agricultural Engineering, involving such shop activities as Machine Shop Practice, Pattern Making, and Foundry and Automotive Machinery. The theory part of this course to be handled by members of the staff of the Industrial Education Department and the practice by the members of the other departments concerned.

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 of 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 of Vocational Education.

DEPARTMENT OF LANDSCAPE ART

Professor Hensel, Professor McGinnis

301. *An Introduction to Landscape Art.* (3-4). *Credit* 4. I, II

A first course in landscape design, including a brief history of gardening. The planning and planting of the various outdoor areas including home and school grounds, small parks, and other public, semi-public, and private areas. Prerequisite: Horticulture 201.

303. *Elementary Forestry.* (2-2) *Credit* 3. I

A general survey of the field of forestry, with identification of the principal trees of this section, log, tree, and stand measurement; grazing as applied to forestry, the simpler forest operations.

304. *Landscape Construction.* (0-8). *Credit* 3. II

Detailed plans of arrangement; sketch plans, planting plans; landscape construction work; tree repair. Prerequisite: Landscape Art 301, Architecture 101, 102, 109, 110.

306. *Ornamentals.* (2-2). *Credit* 3. II

A study of the indigenous and exotic trees, shrubs and vines of Landscape value found growing in this section with special reference to their importance in planting design. A large propagating house, a rather extensive nursery, and a representative collection of shrubs, trees and vines in the College arboretum are accessible for student study. Prerequisite: Horticulture 201.

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. Major problems; landscape construction; detailed plans; professional practice. Prerequisite: Landscape Art 301, 304.

403. *Advanced Ornamentals.* (2-4). *Credit* 3. I

The propagation of the various ornamentals and their subsequent handling in the greenhouse, hot beds, cold frames, and nursery.

404. *Floriculture.* (2-2). *Credit* 3. II

Culture and use of the annuals, perennials, and bulbous plants especially adapted to our climatic conditions. Planned primarily for students in Landscape Design, but sufficiently broad to be of practical value to those who wish a working knowledge of this subject. Considerable attention is paid to general greenhouse practices for which purpose the College Greenhouses, hotbeds and cold frames, with a representative collection of the commoner conservatory and flowering plants are available. Prerequisite: Horticulture 201.

FOR GRADUATES

505, 506. *Landscape Design.* (2-12). *Credit 6 each semester.*

Advanced landscape problems; research consultations; criticism. Prerequisite: Landscape Art 301, 302, 401, 402.

DEPARTMENT OF MATHEMATICS

Professor Porter, Professors J. W. Mitchell, Halperin, D. C. Jones, Associate Professors Martin, Edmonson, Binney, Assistant Professors Nelson, J. W. Ross, Mr. Blumberg, Mr. McGee, Mr. Chaney, Mr. Hall, Mr. Finlay, Mr. Klipple, [3]Mr. Jackson, Mr. McDowell, Mr. Hurt, Mr. Kent, Mr. W. C. Mitchell

101. *Algebra.* (3-0). *Credit* 3. I, II

A rapid review of elementary topics, followed by the study of quadratic equations.

102. *Algebra.* (3-0). *Credit* 3. I, II

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.

[3] On leave, 1936-37.

104. *Analytics.* (4-0). *Credit* 4. I, II

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 and 103.

109. *Agricultural Mathematics.* (3-0). *Credit* 3. I, II

Mathematical operations, percentage, averages, linear equations in one unknown, ratio and proportion, systems of linear equations, areas, volumes, the right triangle, trigonometry, concrete work, lumber measure, measure of hay in stacks, measurements relating to silos, bar graphs, area charts, line graphs.

110. *Survey Course in Mathematics.* (3-0). *Credit* 3. II

Quadratic equations, binomial theorem, progressions, permutations and combinations, logarithms, trigonometric functions, straight line, parabola, hyperbola, empirical curves, derivatives of polynomials, integrals of polynomials.

202. *Mathematical Theory of Investment.* (3-0). *Credit* 3. II

Review of progressions, limits, series, logarithms; graphs; interest, annuities, amortization, bonds, sinking funds and depreciation, probability, life insurance. Prerequisite: Mathematics 110.

203, 204. *Calculus.* (4-0). *Credit* 4 *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.

303. *Theory of Equations.* (4-0). *Credit* 4. I

305. *Differential Equations.* (2-0). *Credit* 2. I

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.

405. *Vector Analysis.* (4-0). *Credit* 4. I

409, 410. *Advanced Calculus.* (4-0). *Credit* 4 *each semester.*

FOR GRADUATES

504. *Solid Analytic Geometry.* (4-0). *Credit* 4. II

506. *Theory of Probability.* (4-0). *Credit* 4. II

507, 508. *Theory of Functions of a Real Variable.* (4-0). *Credit* 4 *each semester.*

511. *Ordinary Differential Equations.* (4-0). *Credit* 4. I

512. *Partial Differential Equations.* (4-0). *Credit* 4. II

513, 514. *Differential Geometry.* (4-0). *Credit* 4 *each semester.*

515, 516. *Advanced Algebra.* (4-0). *Credit* 4 *each semester.*

517, 518. *Theory of Functions of a Complex Variable.* (4-0). *Credit* 4 *each semester.*

519. *Elliptical Integrals.* (3-0). *Credit* 3. I

520. *Fourier's Series and Allied Topics.* (4-0). *Credit* 4. II

DEPARTMENT OF MECHANICAL ENGINEERING

Professor Crawford, Professors Brewer, Faires, Associate Professor Long, Assistant Professors Truettner, Wingren. Trail, Mr. Downard, Mr. McCarter, Mr. Fleming, Mr. Hopper, Mr. Mertz, Mr. Parker

101, 102. *Engineering Problems.* (1-2). *Credit* 2 *each semester.*
Use of the slide rule, (dimensional equations), solution of problems involving engineering data; problems involving trigonometry; elementary statics; work, power, and energy.

105. *Bench Work in Wood.* (1-6). *Credit* 3. I
Designing and making layout of simple bench projects to be made by hand tools, wood turning, glueing, finishing; grinding and care of tools.

106. *Cabinet Making.* (1-6). *Credit* 3. II
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.

201. *Welding and Foundry.* (0-3). *Credit* 1. I, II
Simple pattern layouts and construction of patterns; pattern storage; costs and weights of patterns and castings, kiln-drying and moisture content of pattern woods, 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. Lecture demonstrations on both gas and electric welding and the use of sound motion pictures in this field.

202. *Welding and Foundry.* (0-3). *Credit* 1. II
A continuation of course 201, including advanced methods of pattern making, moulding, and welding.

212. *Engineering Mechanics.* (3-0). *Credit* 3. I, II

A study of forces and force systems, equilibrium, frame structures, center of gravity, and moment of inertia. Prerequisite: Mechanical Engineering 102. Must be preceded or accompanied by Mathematics 204.

213. *Dairy Mechanics.* (2-3). *Credit* 3. I

A study of elementary mechanics, power transmission, steam and steam boilers, pipes and pipe fitting, refrigeration and insulation, temperature measurement and control, electric motors, disposal of waste products, and similar mechanical problems as applied to dairying and dairy products manufacture.

220. *Engineering Mechanics.* (4-0). *Credit* 4. II

A study of the fundamental principles of mechanics as related to both statics and kinetics. A condensation of the material in Mechanical Engineering 212 and 313.

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: Mechanical Engineering 307, 313 and Civil Engineering 305.

307. *Kinematics.* (2-3). *Credit* 3. II

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. I, II

Practice in bench and machine tool work in metals. This includes chipping, scraping, filing, babbitting, pipe fitting, drilling, turning, boring, grinding, milling, machine work.

310. *Machine Shop.* (0-3). *Credit* 1. II

A continuation of course 309 including also tool making and heat treatment of steel; applicaton of factory production methods.

313. *Engineering Mechanics.* (3-0). *Credit* 3. I, II

A continuation of course 212, including kinematics, both graphical and analytical solutions of relative linear velocities and accelerations, Kinetics, dynamics of rotation, work, energy, impact, momentum and balancing.

320. *Thermodynamics.* (5-0). *Credit* 5. II

A study of the laws of thermodynamics as they are applied to the behavior of liquids, vapors, and gases. Emphasis 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. I

A modification of course 320, with the same prerequisites, especially arranged for non-mechanical engineering students.

324. *Steam and Gas Power.* (3-0). *Credit* 3. II

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. II

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.

335. *Mechanical Equipment of Buildings.* (3-0). *Credit* 3. I

The mechanical equipment of buildings; heating and ventilating, air conditioning, plumbing, water supply, working methods of design.

337. *Kinematic Drawing.* (0-3). *Credit* 1. I

Problems and drafting involving linkages, centros, relative linear velocities, cams and gears. Designed especially to supplement the kinematics of motion included in the course in dynamics for electrical engineers.

403, 404. *Engineering Laboratory.* (1-3). *Credit* 2 *each semester.*

Testing gauges, indicators, fans, pumps, boilers, engines and turbines; 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.

407. *Mechanical Refrigeration.* (3-0). *Credit* 3. II

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. I, II

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 semster.*

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. I
Problems involving material control, store accounts, business statistics and investments. Prerequisite: Senior classification in Mechanical Engineering; must be accompanied by Mechanical Engineering 419.

428. *Aerodynamics.* (3-0). *Credit* 3. II
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. II
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.

432. *Automotive Engineering.* (4-0). *Credit* 4. II
A study of the modern automobile, its power plant, fuels, performance, vibration, dynamic balancing, its electrical equipment, braking systems, construction etc. from an engineering standpoint.

434. *Airplane Design.* (1-6). *Credit* 3. II
Force, stress, and performance analysis of the complete airplane. Prerequisite: Mechanical Engineering 428.

436. *Advanced Heating, Ventilating and Air Conditioning.* (4-0). *Credit* 4. II
An advanced study of the thermodynamics of heating, cooling and conditioning of air of residence, office and factory. The calculations for and selection of heating, ventilating, and air conditioning equipment, piping and duct layouts. Prerequisite: Mechanical Engineering 320 or its equivalent.

438. *Marketing Industrial Products.* (3-0). *Credit* 3. II
The industrial marketing field, its magnitude, methods employed, fundamentals of marketing, the growth of demand for the sales engineer, the training of sales engineers, administration and control of sales operations.

440. *Physical Metallography.* (2-3). *Credit* 3. II
A basic course involving the fundamentals of the physical metallography of iron, steels and alloys, laboratory work in polishing, etching and preparation of specimens, making and studying photomicrographs.

FOR GRADUATES

501. *Advanced Machine Design.* (2-6). *Credit* 4. I
A detailed study of special problems in design, such as the theory and

practice of lubrication, the fatigue of metals, the deflections of machine elements, the balancing of moving parts.

502. *Design of Machinery.* (2-6). *Credit* 4. II

A further study of special problems in design, or the design of some complete machine (which may be a machine of the student's own choice), or the work may consist of a combination of special problems and actual design. The nature of the work can to some extent be governed by the inclination of the student.

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. Prerequisite: Mechanical Engineering 418.

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.

513. *Kinematics and Dynamics of Machines.* (4-0). *Credit* 4. I

Velocities and accelerations, with particular emphasis upon balancing. Prerequisite: Mechanical Engineering 304.

515. *Advanced Engineering Thermodynamics.* (4-0). *Credit* 4. I

An extended study of the theories of thermodynamics and their application to the more involved problems in engineering practice. Prerequisite: Mechanical Engineering 320.

516. *Heat Transmission.* (4-0). *Credit* 4. II

A study of the fundamental laws relating to heat flow, emphasis being laid on the application of these laws to engineering materials used in various industrial processes. Also a study of up-to-date developments by reference to current literature.

517. *Mechanical Vibrations.* (4-0). *Credit* 4. I

The subject of vibration as applied to mechanical engineering. Besides giving the general theory in a readily understandable form, the course covers in some detail the principal applications to water wheels, steam turbines, automobiles, airplanes, Diesel engines and electrical machinery. Prerequisite: Mechanical Engineering 313, Mathematics 305.

DEPARTMENT OF MILITARY SCIENCE AND TACTICS

Professor Colonel C. R. Lewis, Professors Lieutenant Colonel W. C. Washington, Major O. E. Beezley, Major D. R. Alfonte, Major W. R. Irvin, Major J. G. Drinkwater, Major J. W. Rice, Major L. S. Stickney.

Assistant Professors Major Raymond Orr, Major F. H. Wilson, Major R. E. Hill, Captain L. R. Garrison, Captain D. T. Johnson, Captain P. H. Enslow, Captain T. D. Roberts, Captain B. P. Heiser, First Lieutenant Martin Moses.

Assistants Technical Sergeant J. V. King, Staff Sergeant C. M. Halliburton, Staff Sergeant E. Seeger, Staff Sergeant V. M. Miller, Staff Sergeant E. R. Toliver, Sergeant H. Richards, Sergeant R. F. Snider, Sergeant J. H. Minnis, Sergeant C. R. Meisenheimer, Private First Class F. A. Whitmore.

INFANTRY UNIT

Professor D. R. Alfonte, Major Infantry
Assistant Professor Raymond Orr, Major Infantry
Assistant Professor F. H. Wilson, Major Infantry
Assistant Professor Martin Moses, First Lieut., Infantry
Assistant H. Richards, Sgt., D.E.M.L.
Assistant J. H. Minnis, Sgt., D.E.M.L.

101, 102. (1-2). *Credit* 1 *each semester.*

(a) Theoretical: Military Courtesy and Discipline, Infantry drill, hygiene, sanitation, rifle marksmanship, map reading, current history, military policy, organization and leadership.

(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, combat principles, infantry weapons, and military history.

(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 gun, map reading, aerial photographs, Howitzer Company weapons, combat principles.

(b) Practical: Command and leadership as sergeants, machine gunnery and Howitzer Company weapons.

Prerequisite: M. S. 201, 202.

401, 402. (3-2). *Credit 3 each semester.*

(a) Theoretical: Military History and Policy, Military Law, Company Administration and Supply, Reserve Officers' Regulations; Tanks, Mechanization. Offensive Combat, Defensive Combat, Combat Orders and Solution of Problems, Combat Principles of the various Small Infantry Units, Anti-aircraft Defense, Defense against Chemical Warfare.

(b) Practical: Principles of Leadership and Instructional Methods. Prerequisite: M. S. 301, 302.

FIELD ARTILLERY UNIT

Professor O. E. Beezley, Major, Field Artillery
Assistant Professor L. R. Garrison, Captain, Field Artillery
Assistant Professor P. H. Enslow, Captain, Field Artillery
Assistant Professor B. P. Heiser, Captain, Field Artillery
Assistant John V. King, Tech. Sgt., D.E.M.L.
Assistant C. M. Halliburton, Staff Sgt., D.E.M.L.
Assistant F. A. Whitmore, Pfc., D.E.M.L.

103, 104. (1-2). *Credit* 1 *each semester.*

(a) Theoretical: Military fundamentals including citizenship, military history and policy, current international situation; discipline and military courtesies; sanitation and first aid; military organization; elementary gunnery; ammunition and materiel.

(b) Practical: Dismounted drill, duties of cannoneers and firing battery, materiel, ceremonies, and leadership.

203, 204. (1-2). *Credit* 1 *each semester.*

(a) Theoretical: Map and aerial photograph reading, battery communications, care of animals and stable management, equitation and horsemanship.

(b) Practical: Dismounted drill, fire control instruments, orientation, battery communications, battery detail, driving and draft, equitation, and leadership. Prerequisite: M. S. 103, 104.

303, 304. (3-2). *Credit* 3 *each semester.*

(a) Theoretical: Use of battery detail, liaison, field artillery communications, equitation and gunnery including the preparation and conduct of fire.

(b) Practical: Use of battery detail, signal communications, driving and draft, preparation and conduct of fire, dismounted drill, leadership and pistol marksmanship. Prerequisite: M. S. 203, 204.

403, 404. (3-2). *Credit* 3 *each semester.*

(a) Theoretical: Tactics, military history and policy, military law and administration, and equitation.

(b) Practical: Duty as battery officers and instructors, command, leadership, and tactics. Prerequisite: M. S. 303, 304.

SIGNAL CORPS UNIT

Professor L. S. Stickney, Major, Signal Corps
Assistant R. F. Snider, Sgt., D.E.M.L.

105, 106. (1-2). *Credit* 1 *each semester.*

(a) Theoretical: Military courtesy and discipline, Infantry drill regulations, organization and administration of a company, hygiene and first aid, code practice, telegraphy, military telephones, military switchboards, and automatic pistol.

(b) Practical: Infantry drill, tent pitching, 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, guard duty, operation of field radio sets, care of personal equipment, map reading.

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.

(b) Practical: Infantry drill, leadership and command, message center operations, operations of telephone systems.

In addition to the above the student must complete E. E. 310.

Prerequisite: M. S. 205, 206, and continued enrollment in Electrical Engineering.

405, 406. (0-2, 3-2). *Credit,* 1, 3.

(a) Theoretical: Organization of Army, company administration, Signal Corps organizations, Signal communication for all arms, use and limitations of signal agencies, combat orders, tactics and technique of Infantry and Signal Corps, military history and policy.

(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.

Prerequisite: M. S. 305, 306, and continued enrollment in Electrical Engineering.

CAVALRY UNIT

Professor William R. Irvin, Major Cavalry
Assistant Professor T. D. Roberts, Captain, Cavalry
Assistant E. Seeger, Staff Sgt., D.E.M.L.

107, 108. (1-2). *Credit* 1 *each semester.*

(a) Theoretical: Military courtesy and discipline, National Defense Act and R.O.T.C. Regulations, Military history, current international situation, organization of the Cavalry, Cavalry drill to include the rifle platoon, elementary equitation and care of the horse, military hygiene and first aid, rifle marksmanship.

(b) Practical: Cavalry drill mounted and dismounted, rifle marksmanship.

207, 208. (1-2). *Credit* 1 *each semester.*

(a) Theoretical: Military history, Cavalry drill mounted and dismounted to include the rifle platoon, elementary equitation, scouting and patrolling musketry, combat principles, rifle and machine rifle, Cavalry marches and camps.

(b) Practical: Cavalry drill mounted and dismounted to include the rifle platoon, machine rifle and pistol, employment of Cavalry mounted and dismounted to include leadership of the squad, scouting and patrolling, and musketry.

Prerequisite: M. S. 107, 108.

307, 308. (3-2). *Credit 3 each semester.*

(a) Theoretical: Aerial photograph reading, care of animals and stable management, principles of leadership, equitation, machine guns, marches and security, offensive and defensive combat and organization of the ground, combat principles of the rifle and machine gun platoon, combat orders and the solution of problems.

(b) Practical: Cavalry drill, mounted and dismounted, command and leadership as sergeants, pistol marksmanship, the mechanics of the machine gun.

Prerequisite: M. S. 207, 208.

407, 408, (3-2). *Credit 3 each semester.*

(a) Theoretical: Military history and policy, military law, administration, supply and mess management, property, emergency procurement, Officers' Reserve Corps Regulations, Cavalry leadership and instructional methods, equitation, mechanization, combat principles of the rifle troop and machine gun troop, anti-aircraft defense, defense against Chemical Warfare and combat intelligence.

(b) Practical: Cavalry leadership, combat principles of the rifle troop, Cavalry drill to include the troop.

Prerequisite: M. S. 307, 308.

ENGINEER UNIT

Professor J. G. Drinkwater, Major, Corps of Engineers
Assistant Professor D. T. Johnson, Captain, Corps of Engineers.
Assistant E. R. Tolliver, Staff Sgt., D.E.M.L.

111, 112. (1-2). *Credit 1 each semester.*

(a) Theoretical: Organization of the Army, discipline, military courtesies, sanitation and first aid, National Defense Act, military history and policy, citizenship, current international situation, leadership, weapons, rifle marksmanship, and musketry.

(b) Practical: Military courtesy, Infantry drill, first aid, weapons, rifle marksmanship, musketry.

211, 212. (1-2). *Credit 1 each semester.*

(a) Theoretical: Organization and duties of Engineers, map and aerial photograph reading, military sketching and map making, drill and command, scouting and patrolling, combat principles.

(b) Practical: Drill and command. sketching, rigging, map making, scouting and patrolling, combat principles.

Prerequisite: M. S. 111, 112.

311, 312. (3-2). *Credit 3 each semester.*

(a) Theoretical: Interior guard duty, care of animals and stable management, military roads, military bridging (fixed and floating), military explosives, and demolitions, field fortifications, drill and command, combat training, mechanization.

(b) Practical: Command and leadership, technical exercises and map problems, use and care of explosives, location and construction of roads, design and construction of bridges, military field engineering.

Prerequisite: M. S. 211, 212.

411, 412. (3-2). *Credit 3 each semester.*

(a) Theoretical: Organization and duties of Engineers, construction in war, military bridges, combat training (organization of ground), military law, company administration, military history and policy, leadership.

(b) Practical: Command and leadership as officers and instructors, combat principles, design and construction of military bridges, organization of ground, construction in war.

Prerequisite: M. S. 311, 312.

COAST ARTILLERY UNIT (ANTIAIRCRAFT)

Professor William C. Washington, Lieutenant Colonel, C. A. C.
Assistant Professor R. E. Hill, Major, C. A. C.
Assistant N. M. Miller, Staff Sgt., D.E.M.L.

113, 114. (1-2). *Credit 1 each semester.*

(a) Theoretical: Organization of the army, organization of the Coast Artillery Corps, military discipline, courtesies and customs of the service, military sanitation and first aid, military history and policy, national defense act and R. O. T. C., military obligations of citizenship, current international situation, leadership, rifle marksmanship, Coast Artillery ammunition, and weapons and materiel.

(b) Practical: Infantry drill, first aid, care and use of rifle, small bore rifle practice, care and adjustment and drill on 155 mm. gun, 75 mm. antiaircraft gun and .30 caliber antiaircraft machine gun, cordage, and mechanical maneuvers.

213, 214. (1-2). *Credit 1 each semester.*

(a) Theoretical: Leadership, fire control and position finding for seacoast artillery, fire control and position finding for antiaircraft artillery, identification of aircraft, and characteristics of naval targets.

(b) Practical: Infantry drill, range section duties for harbor defense and antiaircraft artillery, and aiming and laying of all types of artillery.

Prerequisite: M. S. 113, 114.

313, 314. (3-2). *Credit 3 each semester.*

(a) Theoretical: Map and aerial photograph reading, combat orders, leadership, basic gunnery, fire control and position finding for seacoast artillery, and basic gunnery, fire control and position finding for antiaircraft artillery.

(b) Practical: Infantry drill and ceremonies, solution of map problems, fire adjustment problems, and computation of calibration and trial shot problems for aerial targets.

Prerequisite: M. S. 213, 214.

413, 414. (3-2). *Credit 3 each semester.*

(a) Theoretical: The law of military offenses, courts-martial, battery administration, military history and policy, leadership, motor transportation, harbor defense and anti-aircraft artillery tactics, orientation, materiel, and field engineering.

(b) Practical: Moot court-martial, official correspondence and paper work, infantry drill and ceremonies, tractor and truck driving, tactical map problems, meridian determination on Polaris, plane table and transit traverses, and reconnaissance and selection of battery positions for antiaircraft artillery

Prerequisite: M. S. 313, 314.

CHEMICAL WARFARE SERVICE UNIT

Professor James W. Rice, Major, C. W. S.

Assistant Claude R. Meisenheimer, Sergeant, D. E. M. L.

115, 116. (1-2). *Credit 1 each semester.*

(a) Theoretical: Military discipline and courtesy; organization of the army, National Defense Act; military history and policy; obligations of citizenship; current international events; military hygiene; weapons; interior guard duty; map reading.

(b) Practical: Leadership, map reading, pistol marksmanship, chemical warfare weapons.

215, 216. (1-2). *Credit 1 each semester.*

(a) Theoretical: Organization of the army and of the chemical warfare service; map and aerial photographic reading; supply and mess management; military history; chemical warfare weapons; chemical warfare agents; combat training; defense against chemical agents; communications.

(b) Practical: Leadership, chemical warfare weapons, protective appliances.

Prerequisite: M. S. 115, 116.

315, 316b., (3-2)(1-2). *Credit 3, 1.*

(a) Theoretical: Administration, military law, military history; combat principles, infantry and chemical warfare service; estimate of the situation and combat orders; tactics and technique of chemical warfare.

(b) Practical: Principles of leadership, instructional methods, chemical warfare weapons, identification of agents.

Prerequisite: M. S. 215, 216.

316a. *Military Chemistry.* (2-0). *Credit 2.* II

(a) Theoretical: Industrial and military toxics, physiological effects, first aid treatment, military explosives.

Prerequisite: M. S. 315, Chemistry 301.

415, 416b. (3-2)(1-2). *Credit* 3, 1.

(a) Theoretical: Military history; regulations of officers reserve corps; use and care of motor transport; mechanization; offensive and defensive combat principles including the battalion; signal communications; chemical weapons.

(b) Practical: Leadership and command; training methods; planning methods; chemical warfare weapons; duties of officers.

Prerequisite: M. S. 315, 316b.

416a. *Military Chemical Engineering.* (2-0). *Credit* 2. II

(a) Theoretical: Physics and transportation of gases; meterology; air analysis and measurement methods; theory of absorption; design of gas masks; design of ventilation system.

Prerequisite. Mathematics 203, 204, Physics 203, M. S. 316a, Chemistry 342 or Chemical Engineering 411.

DEPARTMENT OF MODERN LANGUAGES

Professor Campbell, Associate Professor Woolket, Mr. Bettger

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 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 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 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 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 reading.

103, 104. *Beginning German.* (3-0). *Credit 3 each semester.*
Grammar and reading.

105, 106. *Beginning Spanish.* (3-0). *Credit 3 each semester.*
Grammar and reading.

201, 202. *Intermediate French.* (3-0). *Credit 3 each semester.*
Grammar review. Reading of selected texts. Parallel reading.

203, 204. *Intermediate German.* (3-0). *Credit 3 each semester.*
Grammar review. Reading of selected texts. Parallel reading.

205, 206. *Intermediate Spanish.* (3-0). *Credit 3 each semester.*
Grammar review. Reading and conversation. Parallel reading.

205a. *Intermediate Spanish.* (5-0). *Credit* 3. I

Same as regular course 205 except for more intensive grammar review. This course will be taken by students entering with high school credit for two units in Spanish with a grade below B, and by other students in whose cases more than a year has lapsed since the completion of their high school Spanish or its equivalent.

222. *Architectural French.* (2-0). *Credit* 2. II

A practical course in reading and interpretation of available texts and periodicals of greatest value to architects. Prerequisite: Language 202 or equivalent. Open also to students who have completed Language 201 with grade of A or B.

Offered on demand when departmental schedule will permit.)

224. *Technical and Scientific German.* (2-0). *Credit* 2. II

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: Language 204 or equivalent. Open also to students who have completed Language 203 with grade of A or B.

(Offered on demand and when departmental schedule will permit.)

226. *Commercial and Industrial Spanish.* (2-0). *Credit* 2. II

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: Language 206 or equivalent. Open also to students who have completed Language 205 with grade of A or B.

(Offered on demand and when departmental schedule will permit.)

305, 306. *Modern Spanish Drama.* (3-0). *Credit 3 each semester.*

Drama of the nineteenth and twentieth centuries beginning with Moratin and concluding with contemporary Spanish and Spanish-American dramatists.

Open to students who have completed courses 205, 206, or 335, 336.

(Offered in alternate years. Offered in 1937-38.)

335, 336. *Modern Spanish Novel.* (3-0). *Credit 3 each semester.*

The study of representative Spanish and Spanish-American novels from the beginning of the nineteenth century to the present time.

Open to students who have completed courses 205, 206 or 305, 306.

(Offered in alternate years. Not offered in 1937-38.)

DEPARTMENT OF MUNICIPAL AND SANITARY ENGINEERING

Professor Steel

401. *Sewerage and Sewage Disposal.* (3-0). *Credit* 3. I

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 treatment plants. Prerequisite: Civil Engineering 311.

402. *Water Supply and Purification.* (3-0). *Credit* 3. II
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 treatment plants; water collection and distribution systems; water purification plants. Prerequisite: Municipal and Sanitary Engineering 401 or 402 or registration in either of these courses.

406. *Sanitation and Public Health.* (3-0). *Credit* 3. I
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 classification.

408. *Municipal Administration.* (3-0). *Credit* 3. II
City government, including the city manager plan; relation of City to state; administration of city departments; public utilities; city planning. Prerequisite: Junior classification.

412. *Sanitary Laboratory.* (1-5). *Credit* 3. II
Field and laboratory work on control and operation of sewage and water treatment plants and investigation of stream pollution. Prerequisite: Municipal and Sanitary Engineering 401 or 402.

FOR GRADUATES

501, 502. *City Management.* (4-0). *Credit* 4 *each semester.*
Development of 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 of 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.

505, 506. *Research. Credit* 2 *to* 6 *each semester.*
Research in sanitary engineering and municipal affairs; projects subject to the approval of head of department.

DEPARTMENT OF PETROLEUM ENGINEERING

Professor Vance, Associate Professor Stevens

204. *The Petroleum Industry.* (2-0). *Credit* 2. II

A general introductory study of the petroleum industry including historical development, exploration, development and production methods, refining, and the natural gas and natural gasoline industries. Prerequisite: Chemistry 101 and Geology 201.

303. *Petroleum Development.* (3-3). *Credit* 4. I

Petroleum Exploration, principles of oil field development, rotary and cable tool drilling methods, drilling fluids, oil field hydrology, cementing, well completion practice and well records. Prerequisite: Petroleum Engineering 204, Geology 201 and 207, Physics 204.

304. *Petroleum Production Methods.* (2-3). *Credit* 3. II

A study of the factors influencing the flow of oil into the well. Operation of flowing, gas lift and pumping wells. The separation of oil and gas and the methods of treating cut oil. Prerequisite: Petroleum Engineering 303.

401. *Oil Measurements and Transportation.* (2-3). *Credit* 3. II

The measurement, sampling and testing of crude oil, tank strapping and preparation of tank tables, oil storage, the prevention of loss by evaporation, fire and lightning protection. A study of the principles of pipe line design and construction. Prerequisite: Petroleum Engineering 303, 304.

402. *Oil Field Management.* (3-0). *Credit* 3. II

The management of oil field properties, taxes and insurance, organization, regulation and valuation of oil and gas properties. Prerequisite: Petroleum Engineering 303, 304, and 405.

403, 404. *Petroleum Problems.* (0-3). *Credit* 1 *each semester.*

Practical investigation of oil field problems, subject to approval of head of department. Prerequisite: Petroleum Engineering 303, 304, and registration in 405.

405. *Equipment and Applications.* (3-0). *Credit* 3. I

A study of the drilling and production equipment used in oil field practice. Prerequisite: Petroleum Engineering 303, 304.

406. *Natural Gas and Gasoline.* (2-3). *Credit* 3. I

Theory and practice of gas measurement, orifice meters, positive displacement meters, pitot tubes, orifice well testers, etc., The transportation of gas and the manufacture of natural gasoline. Prerequisite: Petroleum Engineering 303, 304.

407, 408. *Production Research.* (0-8). *Credit* 3 *each semester.*

Original investigation of some problem within the field of petroleum production. Prerequisite: fifth year standing.

FOR GRADUATES

501, 502. *Petroleum Engineering Problems.* (3-3). *Credit* 4 *each semester.*
An advanced course in Petroleum Engineering Problems, with special reference to the application and design of equipment.

DEPARTMENT OF PHYSICAL EDUCATION

Professor Norton, Professors Penberthy, Rollins, Associate Professor McQuillan, Assistant Professor Sikes, Mr. Dimmitt

The work of the Department of Physical Education is given in the following divisions:

I. Physical Education and Corrective Gymnastics.
II. Intramural Athletics.
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 athletic proficiency. Practically all students take part in some form of intramural 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. Freshmen teams are fostered in football, basketball, baseball, and track.

IV. 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, golf, and swimming.

V. Courses in Physical Education.

101, 102. *Physical Education for Freshmen.* (0-2). *No credit.*
Grades of S (Superior), P (Passed), and F (Failed) will be given. The grade of S will carry one grade point per semester.

207. *Health Education.* (3-0). *Credit* 3. I
Health education in schools; personal and community hygiene; symptoms and control of common school diseases. Prerequisite: Sophomore standing and approval of instructor.

208. *Athletic Training.* (3-0). *Credit* 3. II
Details of training and conditioning individuals and teams; care and prevention of injury and care of athletic equipment. Prerequisite: Sophomore standing and approval of instructor.

305, 306. *Public School Physical Education.* (3-2). *Credit* 4 *each semester.*
Practice in teaching games used in public school physical education programs; organization of physical education programs in public schools. Prerequisite: Junior standing and approval of instructor.
(Offered in alternate years. Not offered in 1937-38.)

311, 312. *Fundamentals of Athletic Coaching.* (3-2). *Credit* 4 *each semester.*
Fundamentals of football, basketball, track and baseball. Individual technique. Prerequisite: Junior standing and approval of instructor.
(Offered in alternate years. Not offered in 1937-38.)

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: Junior standing and approval of instructor.
(Offered in alternate years. Offered in 1937-38.)

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 administration of physical education and athletic sports. Prerequisite: Junior standing and approval of instructor.
(Offered in alternate years. Offered in 1937-38.)

DEPARTMENT OF PHYSICS

Professor Silvey, Associate Professors Vezey, Sanders, McCorkle, Assistant Professor E. G. Smith, Mr. Schoepfle

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.

203, 204. *General Physics.* (4-3). *Credit* 5 *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 102, 104.

207, 208. *General Physics.* (3-3). *Credit* 4 *each semester.*
This course is identical with course 203, 204, except for the omission of electricity and magnetism. Prerequisite: Mathematics 102, 104.

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.

302. *Properties of Matter.* (3-3). *Credit* 4. II

Universal gravitation, elasticity, surface tension, diffusion, viscosity and the mechanics of fluids. Prerequisite: Physics 202, 204, or 208, and Mathematics 204.

305. *Light.* (2-0). *Credit* 2. I

The wave theory of light, optical instruments, dispersion, spectroscopy, aberrations, 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, interference, polarization and the theory of optical instruments. Prerequisite: Physics 202, 204, or 208, and Mathematics 204.

402. *Electricity and Magnetism.* (3-3). *Credit* 4. II

Electric fields, potential, capacitance, current, resistance, electrolysis, primary and secondary cells, thermoelectric phenomena, magnetism, electromagnetic induction, electronics and Roentgen rays. Prerequisite: Physics 202, 204, or 208, and Mathematics 204.

407. *Geophysics and Geophysical Methods.* (3-0). *Credit* 3. I, II

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.

409. *Theoretical Acoustics.* (3-0). *Credit* 3. I

A study of the fundamental theory of acoustic sound waves; theory of horns, including relations between acoustic and electrical impedence; Acoustic transmission; acoustic measurements and instruments; atmospheric acoustics. Prerequisite: Mathematics 203, 204, 305.

FOR GRADUATES

501, 502. *Analytical Mechanics.* (4-0). *Credit* 4 *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.* (4-0). *Credit* 4 *each semester.*

A study of the underlying principles of alternating electric 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. A study of electrostatic

and electromagnetic fields, the electromagnetic theory of light, thermal and electrical conduction in magnetic fields.

505, 506. *Theory of Thermodynamics and Thermal Radiation.* (4-0). *Credit* 4 *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. *Kinetic Theory.* (4-0). *Credit* 4. I

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. Open to undergraduate students who have a grade of A or B in Physics 301, 302.

508. *Electron Theory.* (3-0). *Credit* 3. II

A study of the conductivity of electricity through gases, mobility and diffusion of gaseous ions, measurement of the elementary electric 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.

510. *Electron Theory.* (0-3). *Credit* 1. II

This course may be taken by students who are enrolled in Physics 508 and those who have credit in this course or its equivalent.

511, 512. *Advanced Optics.* (4-0). *Credit* 4 *each semester.*

The electromagnetic theory of light, spherical and chromatic abberrations, interference, diffraction, crystal optics, optical properties of metals, emission, absorption, dispersion and dispersion formulae, resonance; line and band spectra and their use in the study of the nature of atoms and molecules.

DEPARTMENT OF POULTRY HUSBANDRY

Professor Reid, Associate 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.

301. *Market Poultry.* (2-2). *Credit* 3. I

Pen fattening, crate fattening, fattening on range, fattening the turkey flock, special feeds for ducks and geese, management of a feeding station,

culling the market flock, candling and grading eggs, care of hatching eggs, operating an incubator, preparing eggs for cold storage, feeds that affect the keeping quality of eggs, getting the best price for poultry products.

The practice includes mixing fattening rations, the feeding of broilers, roasters, turkeys, ducks, and geese, also candling and grading eggs, care of hatching eggs; and operation of an incubator.

302. *Feeding and Brooding.* (3-2). *Credit* 4. II

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, methods of pedigree breeding, anatomy of the common fowl, identification of digestive and egg production organs. Prerequisite: Poultry Husbandry 201.

303. *Turkey Production.* (2-0). *Credit* 2. I, II

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.

306. *Game Propagation and Management.* (2-3). *Credit* 3. II

This course includes the history of game conservation in Texas. The habitat, habits, methods of rearing, incubation, mating and protecting Texas game. The principal enemies, parasites, and diseases of Texas game. Equipment needed and financial return probable from game propagation by the Texas farmer. Text book will be numerous references, books, and bulletins now in possession of the department.

Practice work will consist of numerous field trips to surrounding posted farms and fish ponds. Also the construction of artificial cover, the planting of feed crop for game, and various equipment needed for game propagation.

401. *Culling and Management.* (3-2). *Credit* 4. I

The underlying principles of poultry culling, study of the literature, management of a large poultry flock on commercial poultry farms, also large farm flocks, selecting the breeding stock, important 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; and culling practice, incubation, and hatchery management. Prerequisite: Poultry Husbandry 201.

402. *Poultry Farming.* (3-2). *Credit* 4. II

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, battery brooding methods, teaching and demonstrating plans. The course includes a study of the literature relating to poultry breeding principles and practices. 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.

408. *Poultry Meats.* (1-3). *Credit* 2. II

Theory: The essentials of good dressing practice for poultry; proper refrigeration for poultry; methods of sticking and optimum temperatures of water used in dressing poultry.

The practice includes sticking, picking, scalding, singeing, drawing different kinds of poultry. It also includes cutting up poultry for different purposes as broilers, roasters, fricasse, also a study of the effects of different methods of refrigeration.

410. *Advanced Wild Life Studies.* (2-3). *Credit* 3. II

The lectures will outline methods of studying wild life. Special features for the attraction of each species of game and song birds, ways of studying the real status of predators, methods of increasing wild life on given areas. Studies of how to increase the economic value of game and fur-bearing animals to farmers. The practice work will consist of an intensive study of a given area, mapping, the area as to food, cover, and removal of harmful factors. Planning improvements and planting food and cover. The study of at least four coveys of bobwhite quail, their habits, history, and losses. Collection and identification of food and cover plants.

FOR GRADUATES

501, 502. *Research Problems.* (3-4). *Credit* 4 *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.* (3-4). *Credit* 4 *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 vitamins necessary for growth; vitamins necessary to avoid malformation and to secure good growth; minerals essential to good growth. Results of vitamin deficiency in rations.

505. *Embryology of the Chick.* (2-6). *Credit* 4. I

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.

571. *Cooperative Study of Poultry Nutrition. Credit 2 to 6.* I

The history of the scientific study of poultry nutrition, including life, animal heat, nutrients, vitamins, etc., and the contributions of the important research workers in the field. A series of written reports, a three-hour weekly conference with the instructor and the carrying out of an Experiment Station porject in animal nutrition will be required.

573, 574. *Research on Wildlife Problems. Credit 2 to 6.*

Field and Laboratory problems in wildlife research, including game or non-game species, with special regard for the interrelationships between organisms and their environment, and interdependence of plants and animals. Written progress reports, weekly conference with instructor, and the carrying out of a specific project in wildlife research will be required.

DEPARTMENT OF PSYCHOLOGY

Professor Winkler

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.* I, II

The application of psychology to the problems of teaching. The nature and operation of the laws of learning; transfer of training; nature; measurement and significance of individual differences, and the conditions that influence efficiency of learning.

302. *Mental Efficiency.* (2-0). *Credit* 2. II

A study of the more general factors which influence mental efficiency; the significance and importance of mental hygiene in modern life.

323. *The Psychology of Adolescence.* (3-0). *Credit* 3. I

The psychological problems of the normal teen-age individual, including the consideration of the ways and means of aiding youth to meet these problems constructively.

DEPARTMENT OF RURAL SOCIOLOGY

Professor Russell, Mr. D. R. Davis

201. *Introduction to Social Problems.* (3-0). *Credit* 3. I

An introduction to 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. II

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.

306. *Rural Social Work.* (3-0). *Credit* 3. II

The organization of rural public welfare work; a critical analysis of the present relief work in the small towns and rural communities; a study of rural rehabilitation, rural work center, rural colonization, and part time subsistence farming; a study of case work standards relating to orphan, delinquent, dependent, and neglected children, family welfare work, health, and mental hygiene work. Prerequisite: Rural Sociology 201 or 312.

311. *Social Psychology.* (3-0). *Credit* 3. I

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. II

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. II

A study of community life in 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.

407. *Rural Sociology.* (2-2). *Credit* 3. I

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, II

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 the Publicity Department of the Extension Service cooperate in the course.

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. I
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 emphasis 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. II
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 country 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, Assistant Professor Powers.

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.

205. *Cotton Exchanges.* (3-0). *Credit* 3. I
History and purpose of cotton exchanges, operation and details.

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.

218. *Foreign Cotton Markets.* (3-0). *Credit* 3. II
A study of the production and marketing of cotton in foreign countries.

301, 302. *Yarn Manufacture.* (2-3, 0-2). *Credit* 3, 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.* (3-6, 3-3). *Credit* 5, 4.
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.

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.* (1-3, 0-3). *Credit* 2, 1.
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. II
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.
(Offered in alternate years. Not offered in 1937-38.)

DEPARTMENT OF VETERINARY ANATOMY

Professor Burns (in charge), Assistant Professor Sawyer, Mr. Thaxton.

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.

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.

213. *Histology.* (2-4). *Credit* 3. I
A lecture and laboratory course.

214. *Embryology.* (2-4). *Credit* 3. II
A standard course dealing mainly with the embryology of farm and pet animals with the view of qualifying students for the study of animal breeding and veterinary obstetrics.

302. *Anatomy and Psysiology of Domestic Animals.* (2-2). *Credit* 3. II

An introduction to the study of veterinary medicine. The course treats the fundamental processes of animal nutrition in detail, so that each student may be prepared to meet the problems that rise in the economic production of beef, pork, and dairy products.

304. *Topographical Anatomy.* (2-4). *Credit* 3. II

A course for students who wish to take advanced work in the surgical anatomy of farm and pet animals.

FOR GRADUATES

511, 512. *Veterinary Anatomy.* (2-4). *Credit* 3 *each semester.*

DEPARTMENT OF VETERINARY MEDICINE AND SURGERY

Professor Marsteller, Professors Dunn, Lenert, Mr. Coleman

I. B. Boughton, Veterinarian, Agricultural Experiment Station, Lecturer on Parasites of Domestic Animals; W. T. Hardy, Veterinarian, Agricultural Experiment Station, Lecturer on Diseases of Sheep; T. W. Workman, Veterinarian, Agricultural Experiment Station, Lecturer on Virus Diseases of Domestic Animals; R. D. Turk, Veterinarian, Agricultural Experiment Station, Lecturer on Diseases of Cattle; P. L. Piercy, Veterinarian, Agricultural Experiment Station, Lecturer on Protozoan Diseases.

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 unsoundness.

371, 372. *Clinics.* (0-7, 0-12). *Credit* 2, 4.

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

Prevention and control of diseases of domestic animals of the farm and ranch with special reference to sanitation. Prerequisite: Veterinary Anatomy 302.

451. *Diseases of Small Animals and Fowls.* (3-0). *Credit* 3. I

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. I
Symptoms, treatment and control of infectious diseases.

461. *Obstetrics.* (3-0). *Credit* 3. I
Accident of breeding, diseases incident to pregnancy, parturition and post-partum conditions. Attention is also given to diseases of the newly born.

462. *Operative Surgery.* (3-4). *Credit* 4. II
Castrating, spaying, dentistry, lameness, shoeing. Surgical exercises are required.

471, 472. *Clinics.* (0-7). *Credit* 2 *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.

DEPARTMENT OF VETERINARY PATHOLOGY

Associate Professor Wharton, Mr. Milliff

H. Schmidt, Chief Veterinarian, Agricultural Experiment Station, Lecturer on Special Pathology.

242. *General Pathology.* (3-2). *Credit* 4. II
The elementary disease process and their causes, including a study of the gross and minute appearance of the diseased tissue. Such processes as inflamation, necrosis, gangrene, atrophy, hypertrophy, ulceration; the various degenerations, infiltrations, pigmentations and tumor formations are considered. Practice consists of the microscopical study of these processes and instruction in laboratory technique. Prerequisite: Veterinary Anatomy 213.

341, 342. *Special Pathology.* (1-4, 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 post-mortem technique. Prerequisite: Veterinary Pathology 242.

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.

441. *Immunology and Serum Therapy.* (2-2). *Credit* 3. I

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.

442. *Food Hygiene.* (2-2). *Credit* 3. II

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.

444. *Laboratory Diagnosis.* (2-2). *Credit* 3. II

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.

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.

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.

DEPARTMENT OF VETERINARY PHYSIOLOGY AND PHARMACOLOGY

Professor Burns, Mr. Edds

B. L. Warwick, Animal Husbandman, Agricultural Experiment Station, Lecturer on Physiology of Reproduction; F. P. Matthews, Veterinarian, Agricultural Experiment Station, Lecturer on Poisonous Plants.

121, 122. *Physiology of the Domestic Animals.* (3-0, 2-0). *Credit* 3, 2.

The physical and chemical processes involved in the physiological functioning of the bodies of the domestic animals; physiology of the circulatory, respiratory, muscular, and reproductive systems.

221, 222. *Physiology of the Domestic Animals.* (3-2, 2-4). *Credit* 4, 3.

Digestion, absorption, secretion, excretion; physiological chemistry, with special reference to digestive juices, enzymes, hormones, urine, and chemical composition of the body. Physiology of the endocrines and nervous system. The practice consists of studying blood, urine, and other body fluids; action

of natural and artificial digestive juices on food; graphic records of the functioning of the muscular, nervous, respiratory, and circulatory systems. Prerequisite: V. P. P. 121, 122.

333, 334. *Pharmacology.* (3-4, 3-2). *Credit* 4 *each semester.*

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 drug 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; action of drugs on experimental animals.

341. *General Physiology.* (3-4). *Credit* 4. I

Structure of the human body; physiology of the skeletal, muscular, nervous, circulatory, and respiratory systems. Prerequisite: Biology 203, 204, or 211, 212.

Elective for students in Science and Physical Education. (Previously designated Biology 341).

342. *General Physiology.* (3-4). *Credit* 4. II

Physiology of digestion, nutrition, metabolism, secretion, excretion, endocrines, and reproduction. Prerequisite: Chemistry 301, 302 or Chemistry 206; V. P. P. 341.

Elective for students in Science.(Previously designated Biology 342).

432. *Toxicology.* (1-4). *Credit* 2. II

Causes, symptoms, lesions, prevention, and treatment of organic poisons, inorganic poisons and poisonous plants. Practice consists of analysis of the more common organic and inorganic poisons; actions and treatment of poisons on experimental animals.

FOR GRADUATES

501, 502. *Advanced Practical Physiology.* (2-4). *Credit* 3 *each semester.*

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. Prerequisite: Chemistry 206.

505, 506. *Advanced Poisonous Plants.* (3-4). *Credit* 4 *each semester.*

Original investigations and detailed studies of the poisonous plants affecting domestic animals. Prerequisite: Biology 101, 102.

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. Prerequisite: V. P. P. 333, 334.

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 Apicultural 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, 1937, the Station System received $279,830 State appropriations; and $164,682.38 Federal funds for the year ending June 30, 1937.

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 disease affecting horses, 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 Ser-

vice; 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 Surveys: The division of Soil Survey is operated in cooperation with the Bureau of Chemistry and 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 Feeding Stuff Law regulates the sale of concentrated commercial feeding stuffs and the materials from which they are manufactured and provides for defining them; for prohibiting their adulteration; for correct weighing and marketing; 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 materials of which it is made, or which does not conform to the standards, and after ten days' 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.

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 foulbrood 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 the 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 also 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 of 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 Substation No. 5, Temple, in the blacklands, as well as at the 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 farmers cotton market, and farm taxation. The chief objective of the research program of the 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 the development and growth in children. Nutrition may affect not only the growth and development but also the health of the individual, and studies of diet in relation to the well-being 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 as an important relation to the utility of cotton fabrics but also promises to develop information as to the possibility of deterioration of cotton fibers in the field before harvesting.

Apiculture Research: The division of Apiculture has a specially equipped laboratory for beekeeping investigations, located near San Antonio, in Bexar county. The 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 the 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 for 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. (2-6).

Animal Husbandry 571, 572. Wool and Mohair Research. (3-4).

Animal Husbandry 573, 574. Research in Animal Breeding. (3-4).

Animal Husbandry 575, 576. Research in Animal Nutrition. (3-4).

Biology 573, 574. Research in Plant Pathology. Credit 2 to 6.

Chemistry 571, 572. Special Topics in the Chemistry of Animal Nutrition. (2-6).

Chemistry 573, 574. Special Topics in the Chemistry of Animal Nutrition. (2-6).

Chemistry 575, 576. Special Topics in the Chemistry of Soils. (2-6).

Chemistry 577, 578. Special Topics in the Chemistry of Soils. (2-6).

Genetics 571, 572. Research in Cotton Breeding. Thesis.

Poultry Husbandry 571. Cooperative Study of Poultry Nutrition. Credit 2 to 6.

Poultry Husbandry 573, 574. Research on Wildlife Problems. Credit 2 to 6.

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 Exeperiment Station.

Forty-three 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, College Station, Texas.

THE EXTENSION SERVICE

H. H. WILLIAMSON, Director

The Cooperative Extension Service, a Federal-State-County agency for "diffusing useful information in agriculture and home economics" to all the people living in the open country and in towns and villages up to 2,500 in population, has its headquarters on the campus and is administered by A. and M. College.

The work of this Service is established on a demonstration basis and is carried on in the counties by 273 agricultural agents and 189 home demonstration agents. Supervision is exercised by the administrative officials and by twelve district agricultural agents and twelve district home demonstration agents. Subject matter specialists aid the county agents in the development of demonstrations in better farming, ranching, and home making. Supervisory officers and specialists together total approximately 70 persons.

The Extension Service carries to the farm and ranch people of Texas the practical results of the research work of the United States Department of Agriculture, the State Colleges of Agriculture and like institutions. It teaches rural people how to apply these to the practical problems of the farm and home, both in production and marketing.

Teaching through demonstration methods makes it a self-education process which has as its aim the development of a self reliant and thinking rural constituency capable of its own leadership in bringing about a comfortable, prosperous cultured country life.

The Extension Service also supervises a similar work among the negroes carried on in cooperation with Prairie View Normal and Industral College. Three men and two women in administrative positions with a field force of 72 agricultural and home demonstration agents constitute the personnel of the negro work.

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, cooperations, 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 land 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-Student's Association of A. and M. College to be used as a student loan fund. A fifth State Forest of 118 acres was acquired in 1935 through a gift of the citizens of Houston County. 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 $93,255.00 of State funds and $41,160.00 of Federal funds are available for carrying on the designated activities of the office. The personnel comprises 11 technical foresters, 2 educational assistants, 1 law enforcement agent, 1 maintenance engineer, 1 draftsman, 3 inspectors, 59 patrolmen, 7 lookout men, 13 smokechasers, 70 emergency patrolmen, 66 forest guards, and 2 forest foremen.

DIVISION OF FOREST PROTECTION

This division has charge of activities relating to the protection of timber from fires, 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.

PUBLICATIONS

Twenty-five bulletins have been issued, dealing with practically all phases of forestry, and in additions, 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 dissemination 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 and sampled for analysis, the samples are analyzed, and the results are 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 state as clearly as possible what information they are seeking and request further information and instructions for sampling before taking any samples, 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.

THE TEXAS COOPERATIVE WILDLIFE SERVICE

WALTER P. TAYLOR, Senior Biologist, In Charge

The Texas Cooperative Wildlife Service was brought into being through the signature of Memoranda of Understanding by authorized representatives of the Bureau of Biological Survey, United States Department of Agriculture, Agricultural and Mechanical College of Texas, Texas Game, Fish and Oyster Commission, and American Wildlife Institute.

The objectives of the Service, as set forth in the Memoranda of Agreement, are as follows:

1. To investigate and correlate the production and conservation of wildlife and to study the local and regional problems involved.
2. To demonstrate the feasibility in land use of practical game management in obtaining a maximum population of game and fur-bearing species and increasing the population of other desirable species of wildlife.
3. To make readily available to game officials, land owners, and others, the facts and methods found through investigation best suited to local and state conditions.
4. To provide comprehensive and inclusive sources of technical information for public, private, and scientific use through the exchange of data with other regional laboratories coordinated through the agency of the Bureau of Biological Survey.

THE FIREMEN'S TRAINING SCHOOL

H. R. BRAYTON, Director

Since 1930 the College has conducted a Training School for Texas firemen. This was established at the request of the volunteer fire departments of the State and is conducted under the direction of a member of the Department of Chemistry and Chemical Engineering.

Inaugurated as a summer short course, the work has been expanded as rapidly as has been made possible by additional appropriations and now includes three closely coordinated main divisons.

SUMMER SHORT COURSE

Each summer a five day session is held at the College in which are enrolled firemen, drill-masters, chiefs and fire marshals from the various cities of Texas. These men are given intensive training along lines of fire extinguishment, control and prevention, building construction and inspection, first aid and methods of instruction. Through legislative appropriations a complete fire fighting equipment is available for instructional purposes. The instruction given in classroom and by drills with apparatus and equipment is conducted by drill-masters, chiefs, and specialists from the larger cities, national organizations, and the College staff. Completion of this work including a written examination, qualifies the cities represented to receive 3 per cent credit on their local insurance key rate, granted by the Texas Insurance Commission Continuation of this credit requires annual attendance at the Training School and systematic drills during the year in the local communities.

EXTENSION INSTRUCTION

Each quarter during the year, outlines covering drills and class room work to be used the following three months are mailed to the four hundred and eighty-seven fire departments in the State. These outlines give each department an organized course of training throughout the year and standardize the work of all departments in the State in the most modern approved methods.

To further assist the various cities in improving the work of their local fire departments, the Training School maintains an experienced chief as full time field instructor, who visits the various cities and towns and assists their local authorities in conducting drills and schools of instruction. He carries the instruction of the summer short course into the local communities and makes it available for the entire department. When requested by local departments, the field instructor also assists schools and city officials in their fire prevention work.

The entire efforts of the Training School are directed toward reducing in Texas the annual loss of life of some four hundred human beings and a property loss of approxiamtely twenty millions of dollars as a result of fire.

FIRE DEPARTMENT INSTRUCTORS' CONFERENCE

Each year all Texas fire department chiefs and drillmasters who serve as instructors during the Summer Short Course are called together for a three day conference session at the College. Latest developments in fire-fighting and fire-prevention are discussed in classroom and new apparatus and equipment are tested on the drill field. This group of instructors decide as to any changes in drill evolutions to be used during the Summer Short Course and these recommended improvements are in turn submitted to all Texas fire departments.

The purpose of this conference is the standardization of all Texas fire department drills, evolutions and operations and the coordination of instruction given these departments at the College and through field extension.

RADIO BROADCAST

STATION WTAW

E. P. HUMBERT, Program Director

Since 1922 the College has maintained the radio broadcast station. The original station which had a rating of only 28 watts, was built by the students and staff of the Electrical Engineering Department. The Station has been enlarged and improved from time to time and at present is a modern Station operating on 500 watts and a frequency of 1120 Kcls.

The Station maintains a regular schedule of programs. These programs consist largely of talks and discussions of an educational nature given by representatives from all divisions of the College staff. On occasion music and entertainment features by special groups are included in the program.

Each day except Sunday from 11:30 A. M. to 11:50 A. M. WTAW joins the Texas Quality Network to broadcast a program from the studios in the Y.M.C.A. building. The Texas Quality Network includes, WFAA, Dallas; KPRC, Houston; and WOAI, San Antonio and gives a complete coverage of the State. These programs are confined to educational, agricultural and economic topics of timely interest.

In addition to proving a source of accurate and timely information to the citizens in the State, and particularly to the rural population, the Station serves as a means of vitalizing courses in Communication Engineering in the College and of aiding the Engineering Experiment Station in its research problems.

SUMMER SESSION

C. H. WINKLER, Director

The Summer Session consists of two terms of six weeks each. The 1937 Summer Session opens Tuesday, June 8, and closes Saturday, August 28. Students may enroll for the full session or for either term.

The general purpose of the Summer Session is to extend the activities of the teaching division of the College throughout the year and thereby provide instruction for regular students in the various Schools and for those engaged during the winter in teaching an opportunity to pursue courses for college credit and for further professional improvement. Courses for both graduates and undergraduates are offered by practically all departments of the College. Men and women are admitted to summer session courses.

The Summer Session Catalog may be obtained by addressing your request to the Director of Summer Session, or the Registrar, College Station, Texas.

Part VI

REGISTER OF STUDENTS

Session 1936-37

GRADUATE STUDENTS

Adams, Cyril S. ..... Civil Engineering ..... College Station
M. S., Agricultural and Mechanical College of Texas, 1933.

Allen, Leonard Quentin ..... Rural Sociology ..... Austin
B. S., East Texas State Teachers College, 1926.

Apple, Spencer Butler ..... Horticulture ..... College Station
B. S., Agricultural and Mechanical College of Texas, 1935.

Ashby, Gerald K. ..... Chemistry ..... Evansville, Ind.
B. S., Agricultural and Mechanical College of Texas, 1934.

Baggett, Roosevelt T. ..... Agricultural Economics ..... College Station
B. S., Agricultural and Mechanical College of Texas, 1926.

Bain, D. C. ..... Liberal Arts ..... College Station
B. A., University of Tennessee, 1936.

Barker, O. T. ..... Industrial Education ..... Ector
B. S., East Texas State Teachers College, 1930.

Bass, Henry Titdin ..... Animal Husbandry ..... Greenville
B. S., Agricultural and Mechanical College of Texas, 1936.

Bevan, Stewart ..... Geology ..... El Paso
B. S., College of Mines, 1933.

Bickel, Leonard Aldis ..... Mechanical Engineering ..... Dallas
B. S., Agricultural and Mechanical College of Texas, 1925.

Blumberg, Albert Asa ..... Mathematics ..... College Station
B. A., University of Texas, 1929.

Bourg, Louis Joseph ..... Animal Husbandry ..... Jeanerette, Louisiana
B. S., Southwestern Louisiana Institute, 1936.

Brewer, Alexander Van ..... Mechanical Engineering ..... Bryan
B. S., Purdue University, 1913.

Brown, William Lacy ..... Biology ..... Arborvale, West Virginia
B. A., Bridgewater College, 1936.

Campbell, R. L. ..... Chemistry ..... Nacogdoches
B. S., Stephen F. Austin State Teachers College, 1935.

Carter, Charles A. ..... Accounting and Statistics ..... Nacogdoches
B. A., Stephen F. Austin State Teachers College, 1935.

Chalk, Alfred Franklin ..... Economics ..... McAllen
B. A., Baylor University, 1934.

Chaney, J. Gerald ..... Mathematics ..... Bryan
M. S., University of Texas, 1930.

Chaney, Preston Earl ..... Chemical Engineering ..... Anahuac
B. S., Agricultural and Mechanical College of Texas, 1936.

Chenault, Tandy Prewitt ..... Biology ..... Mount Sterling, Ky.
B. S., Morehead State Teachers College, 1936.

Christy, Donald ..... Agricultural Engineering ..... College Station
B. S., Kansas State College, 1933.

Coston, Ocie ..... Accounting and Statistics ..... Winnsboro
B. S., East Texast State Teachers College, 1932.

Couch, James Russell ..... Chemistry ..... College Station
M. S., Agricultural and Mechanical College of Texas, 1934.

Crawford, Jack ..... Accounting and Statistics ..... Nacogdoches
B. S., Stephen F. Austin State Teachers College, 1935.

Czarowitz, Philmore H. ..... Economics ..... Bartlett
B. A., Southwestern University, 1933.

Dana, Baron Richard ..... Animal Husbandry ..... College Station
B. S., Iowa State College, 1935.

Danforth, Joe Jeff ..... Agricultural Economics ..... Bryan
B. S., Agricultural and Mechanical College of Texas, 1933.

Darley, William G. ..... Electrical Engineering ..... Cleveland, Ohio
B. S., Agricultural and Mechanical College of Texas, 1930.

Daugherty, Malcolm Stewart ..... Dairy Husbandry ..... Lindsey, Louisiana
B. S., Louisiana State University, 1935.

Driskill, Frank A. ..... Economics ..... Crockett
B. A., Southwestern University, 1932.

Dunn, James H., ... Mechanical Engineering ..... Dallas
B. S., Agricultural and Mechanical College of Texas, 1925.

Edds, George Tyson ..... Veterinary Medicine ..... College Station
D. V. M., Agricultural and Mechanical College of Texas, 1936.

Ehlert, M. H. ..... Education ..... Brenham
B. S., San Marcos State Teachers College, 1928.

Elkins, Rollin Lafayette ..... Economics ..... College Station
M. S., Agricultural and Mechanical College of Texas, 1935.

Ellisor, Wilson ..... Economics ..... Willis
B. A., Agricultural and Mechanical College of Texas, 1936.

Elms, Morris A. ..... Education ..... McGregor
B. A., Baylor University, 1935.

Gaines, J. C., Jr. ..... Entomology ..... Bryan
M. S., Alabama Polytechnic Institute, 1926.

Gandy, Woodrow W. ..... Mathematics ..... Bryan
B. S., Agricultural and Mechanical College of Texas, 1936.

Giles, Dorris David ..... Animal Husbandry ..... Nacogdoches
M. S., Agricultural and Mechanical College of Texas, 1929.

Glenn, Edgar Wilson ..... Agricultural Engineering ..... Bryan
M. S., Agricultural and Mechanical College of Texas, 1931.

Goodenough, Herbert Francis ..... Mechanical Engineering ..... Tulsa, Oklahoma
B. S., Agricultural and Mechanical College of Texas, 1925.

Goodrum, Phil D. ..... Biology ..... Trinity
B. S., Sam Houston State Teachers College, 1929.

Goodwin, John Milton ..... Electrical Engineering ..... Houston
B. S., Agricultural and Mechanical College of Texas, 1933.

Graham, Samuel Stanley ..... Agricultural Economics ..... Huntsville
M. S., Iowa State College, 1932.

Griffin, W. Raymond ..... Mathematics ..... Waco
B. A., Baylor University, 1936.

Guest, Paul Lynn ..... Horticulture ..... Mercedes
B. S., University of Illinois, 1936.

Hale, George M. ..... Animal Husbandry ..... Clarksville
B. S., Texas Technological College, 1932.

Hall, Dan ..... Mathematics ..... Bryan
M. A., University of North Carolina, 1928.

Harper, Roy Ernest ..... Genetics ..... College Station
B. S., Agricultural and Mechanical College of Texas, 1936.

Hazel, Lanoy Nelson ..... Animal Husbandry ..... Spur
B. S., Texas Technological College, 1933.

Hiett, Thomas A. ..... Chemistry ..... Denton
B. S., North Texas State Teachers College, 1933.

Holland, Bryant R. ..... Chemistry ..... Midlothian
B. A., North Texas State Teachers College, 1936.

Holmes, William Worth ..... Civil Engineering ..... Shamrock
B. S., Agricultural and Mechanical College of Texas, 1934.

Howell, Eugene Jody ..... Agricultural Economics ..... College Station
M. S., Agricultural and Mechanical College of Texas, 1932.

Jackson, Robert Lee ..... Rural Sociology ..... Overton
B. D., Southern Methodist University, 1931.

James, Lee Eynor ..... Animal Husbandry ..... Pendleton
B. S., Agricultural and Mechanical College of Texas, 1936.

Johnston, Thomas Frazier ..... Electrical Engineering ..... Ferriday, Louisiana
B. S., Agricultural and Mechanical College of Texas, 1930.

Kuhn, Willet ..... Electrical Engineering ..... Weatherford
B. S., Texas Technological College, 1934.

Lankford, Leonard Avera ..... Municipal and Sanitary Engineering ..... Dallas
B. S., Southern Methodist University, 1934.

Lay, Daniel W. ..... Biology ..... Huntsville
B. S., Agricultural and Mechanical College of Texas, 1936.

Lee, Addison Earl ..... Biology ..... Nacogdoches
B. S., Stephen F. Austin State Teachers College, 1934.

Lee, Kus Chen ..... Agronomy ..... Shu-Lim Li, China
B. S., Central University of China, 1930.

Lee, Yung Chen ..... Agricultural Economics ..... Kiading, China
B. S., National University, 1916.

Lilly, Bob T. ..... Industrial Education ..... Huntsville
B. S., East Texas State Teachers College, 1933.

Livesay, P. Craig ..... Civil Engineering ..... Toledo, Iowa
B. S., Iowa State College, 1934.

Longley, James Weldon ..... Economics ..... San Saba
B. S., Agricultural and Mechanical College of Texas, 1936.

Loving, Robert O. ..... Electrical Engineering ..... Pine Bluff, Arkansas
B. S., Agricultural and Mechanical College of Texas, 1936.

McFadden, Edgar S. ..... Genetics ..... College Station
B. S., South Dakota State College, 1918.

McGee, Roger V. ..... Mathematics ..... Bryan
B. S., Agricultural and Mechanical College of Texas, 1922.

Manley, Jesse W. ..... Accounting and Statistics ..... Fort Worth
B. S., Agricultural and Mechanical College of Texas, 1934.

Manly, Clarence Edward, Jr. ..... Agricultural Economics ..... College Station
B. S., Agricultural and Mechanical College of Texas, 1936.

Marek, Jerry William ..... Chemical Engineering ..... Brenham
B. S., Agricultural and Mechanical College of Texas, 1935.

Matthys, Walter Charlie ..... Agricultural Education ..... Riesel
B. B. A., Baylor University, 1930.

Mertz, Earl Richard ..... Mechanical Engineering ..... College Station
B. S., Missouri School of Miles, 1933.

Minzner, Walter Richard ..... Electrical Engineering ..... Metheun, Mass.
B. S., Northeastern University, 1936.

Morrow, Homer Nicholas ..... Chemical Engineering ..... Brownsville
B. S., Agricultural and Mechanical College of Texas, 1934.

Mosesman, Max Abe ..... Chemical Engineering ..... Dallas
B. S., Agricultural and Mechanical College of Texas, 1936.

Nau, Robert H. ..... Electrical Engineering ..... College Station
B. S., Iowa State College, 1935.

Nelson, John Charles ..... Civil Engineering ..... Dallas
B. S., Agricultural and Mechanical College of Texas, 1935.

Nixon, Sam A. ..... Civil Engineering ..... Fabens
M. S., Agricultural and Mechanical College of Texas, 1929.

Norton, Obie William ..... Agricultural Economics ..... Dallas
B. S., Texas Technological College, 1935.

Oliver, John Eoff ..... Accounting and Statistics ..... Stephenville
B. B. A., University of Texas, 1929.

Orr, Joseph Anderson ..... Civil Engineering ..... College Station
M. S., Agricultural and Mechanical College of Texas, 1933.

Palmer, Carl C. ..... Electrical Engineering ..... Houston
M. S., Agricultural and Mechanical College of Texas, 1935.

Parhiala, Leime I. ..... Geology ..... Syracuse, N. Y.
B. A., Syracuse University, 1937.

Parker, Robert Franklin ..... Mechanical Engineering ..... Anderson
B. S., Rice Institute, 1934.

Phillips, Oscar M. ..... Horticulture ..... Commerce
B. S., East Texas State Teachers College, 1935.

Pollard, George Dandridge ..... Agricultural Economics ..... Aycett, Virginia
M. S., Virginia Polytechnic Institute, 1930.

Price, Chester Allen ..... Agronomy ..... Baton Rouge, Louisiana
B. S., Louisiana State University, 1936.

Ragsdale, William Earl ..... Chemistry ..... Santa Anna
B. S., Hardin-Simmons University, 1935.

Rambo, Earle Kensington ..... Agricultural Engineering ..... Ninety-Six, S. C.
B. S., Clemson College, 1936.

Rasmussen, A. A. ..... Mechanical Engineering ..... Seadrift
B. S., Agricultural and Mechanical College of Texas, 1920.

Ray, William Oliver ..... Electrical Engineering ..... College Station
B. S., Agricultural and Mechanical College of Texas, 1934.

Richmond, Thomas Rollin ..... Biology ..... College Station
B. S., Agricultural and Mechanical College of Texas, 1931.

Roberts, Lewis M. ..... Genetics ..... Terrell
B. S., Agricultural and Mechanical College of Texas, 1936.

Rougeou, Clyde Lee ..... Dairy Husbandry ..... Lecompte, Louisiana
B. S., Southwest Louisiana Institute, 1936.

Scharnberg, Curtis ..... Dairy Husbandry ..... Lubbock
B. S., Texas Technological College, 1936.

Schoch, H. Bernard ..... Chemistry ..... Indianapolis, Indiana
B. S., Butler University, 1936.

Schunior, George E. ..... Education ..... Bryan
B. S., Agricultural and Mechanical College of Texas, 1932.

Scofield, James Arthur ..... Agricultural Economics ..... Bryan
B. S., Agricultural and Mechanical College of Texas, 1913.

Sellner, Edward ..... Civil Engineering ..... Kansas City, Kansas
B. S., Case School of Applied Science, 1935.
Shannon, Ivan Maurice ..... Rural Sociology ..... Normangee
B. S., Agricultural and Mechanical College of Texas, 1933.
Sharpe, Ralph H. ..... Horticulture ..... Luceyville, Pennsylvania
B. S., Pennsylvania State College, 1934.
Shone, Louis A., II ..... Landscape Art ..... College Station
B. S., Agricultural and Mechanical College of Texas, 1934.
Siegler, Hilbert Richard ..... Biology ..... Bangor, Wisconsin
M. A., Wisconsin University, 1936.
Simpson, William M. ..... Civil Engineering ..... Norman, Oklahoma
B. S., University of Oklahoma, 1936.
Sims, Ellis M. ..... Mechanical Engineering ..... College Station
B. S., Agricultural and Mechanical College of Texas, 1936.
Smith, Elmer Gillam ..... Mechanical Engineering ..... College Station
M. S., Agricultural and Mechanical College of Texas, 1925.
Smith, Morrell Bishop ..... Agronomy ..... Troup
B. S., Agricultural and Mechanical College of Texas, 1935.
Smith, Manning Farr ..... Chemistry ..... College Station
B. S., Centenary College of Louisiana, 1935.
Sonnier, Zachary ..... Dairy Husbandry ..... Scott, Louisiana
B. S., Southwest Louisiana Institute, 1936.
Stevens, Albert B. ..... Petroleum Engineering ..... Bryan
M. S., University of Southern California, 1932.
Strandtmann, Russell William .. Science ..... Maxwell
B. S., Southwest Texas State Teachers College, 1935.
Tanner, B. Maurice ..... Civil Engineering ..... Wichita Falls
B. S., Agricultural and Mechanical College of Texas, 1930.
Thompson, Lee Price ..... Physics ..... Holbrook, Arizona
Turk, Richard D. ..... Veterinary Medicine ..... Bryan
D. V. M., Kansas State, 1933.
Turner, Millard Thad ..... Agronomy ..... Marlin
B. S., North Texas State Teachers College, 1934.
Upchurch, Melvin L. ..... Agricultural Economics ..... Canyon
B. S., Agricultural and Mechanical College of Texas, 1936.
Vertrees, William C. ..... Horticulture ..... College Station
B. S., Agricultural and Mechanical College of Texas, 1931.
Walker, Ray ..... Agronomy ..... Wolfe City
B. S., Agricultural and Mechanical College of Texas, 1931.
Wang, Kwei Wu ..... Agronomy ..... Wang Pin Pa Chiao, China
B. S., National Central University of China, 1933.
Wenmohs, John R. ..... Agricultural Economics ..... Marble Falls
B. S., Agricultural and Mechanical College of Texas, 1932.
Wiley, William Henry ..... Poultry Husbandry ..... College Station
B. S., Agricultural and Mechanical College of Texas, 1936.
Wilkes, Floyd Mack ..... Animal Husbandry ..... Floydada
B. S., Texas Technological College, 1935.
Wilkins, Charlie Smith ..... Agricultural Economics ..... Stephenville
M. A., University of Texas, 1929.
Williams, Kenneth G. ..... Physics ..... Sherman
B .A., Austin College, 1936.
Zalmanzig, Fred Dodge ..... Municipal and Sanitary Eng. .. San Antonio
B. S., St. Mary's University, 1934.

UNDERGRADUATE STUDENTS

ABBREVIATIONS

AA—Agricultural Administration
Agr—Agriculture
AgEd—Agricultural Education
AgEng—Agricultural Engineering
Arch—Architecture
ArchEng—Architectural Engineering
ChE—Chemical Engineering
CE—Civil Engineering
EE—Electrical Engineering
GE—Geological Engineering
IE—Industrial Education
Land—Ladscape Art
LA—Liberal Arts
ME—Mechanical Engineering
PetE—Petroleum Engineering
Pre-Vet—Pre-Veterinary Medicine
RE—Rural Education
Sci—Science
TE—Textile Engineering
VM—Veterinary Medicine
CM—Two-year Course in Cotton Marketing and Classing
5—Fifth Year
4—Junior
3—Junior
2—Sophomore
1—Freshman
Spec—Special

Abbe, Gilber C., 1 ME....Beaumont
Abbott, Henry Gee, 4 ChE....Dallas
Abbott, Olen W., 4 ChE....McAllen
Abernathy, Arthur Henry, Jr., 2 ME....Monterrey, Mexico
Acker, Voscoe, 2 PetE....Velasco
Adair, Robert Edward, 4 PetE....Crockett
Adams, Billy Joe, 1 AgEng....Forney
Adams, Charles B., 1 Agr....Alpine
Adams, George Barton, 4 CE....Bryan
Adams, Gayle Darwin, 3 AgEd....Comanche
Adams, Harold Irving, 2 ChE....Waco
Adams, Horace Lee, 2 Agr....La Feria
Adams, Joseph Bartholomew, 3 VM, Bryan
Adams, John Charles, 3 AgEng....Bryan
Adams, Jay H., 3 Arch....San Antonio
Adams, Jack Lindon, 1 Agr....Quemado
Adams, Jesse Marshall, 1 AgEd....Lovelady
Adams, Rob Lee, 1 PetE....Mabank
Adams, Robert M., 1 ChE....Jacksonville
Adams, Samuel L., 4 EE....Beaumont
Adams, William Andrew, 1 EE....College Station
Adams, William Arnold, 4 Agr....El Paso
Adamson, Arthur Douglas, 1 LA....Houston
Adkisson, G. W., Jr., 2 AA....Conway, Ark.
Adkisson, James Foster, 2 PetE....Greenville
Adler, Vernon Tommins, 4 Sci....Boerne
Adrian, Jim L., 2 VM....Girvin
Aguilo, Andres Velez, 1 Sci....Ponce, Puerto Rico
Aiken, William Hamblen, 4 ChE....Salado
Ainsworth, Ira Vaughn, 1 Arch....Wichita Falls
Ainsworth, Paul Harvey, 2 LA....Beaumont
Airhart, Wallis Hendricks, 3 AA....Blue Ridge
Akin, Joseph Charles, 1 AA....Nash
Albrecht, Arthur Bobbie, 2 LA....Yoakum
Albrecht, William Charles, Jr., 3 PetE....Yoakum
Aldrich, Clarence Henry, 2 Agr....Wichita Falls
Aldrich, Earle Warren, 1 Sci, San Antonio
Aldrich, Johnnie Lee, 3 AA....Temple
Aldrich, Oliver Cromwell, 1 ME....Edinburg
Aldridge, Edwin Ernest, Jr., 1 PetE....San Antonio
Alexander, Joe Marshall, 2 PetE....Damon
Alexander, James Y., 3 LA, College Station
Alexander, Ulysses McDonald, Jr., 3 ChE....Ft. Worth
Alexander, William Douglas, 1 ME....Marrowbone, Kentucky
Allen, Alvis Harvey, 2 Agr....Eddy
Allen, Augustus Jared, 2 CE....Willis Point
Allen, Benjamin A., 1 AA....Millican
Allen, Carroll E., 2 Agr....Bertram
Allen, Frank William, 1 PetE....Houston
Allen, Homer Bryan, 1 Sci....Brownwood
Allen, Johnson Butler, 2 Agr....Hull
Allen, John Gilbert, 3 AgEd....Prairie Hill
Allen, James Howard, Jr., 1 PetE....Beaumont
Allen, Jack Jerald, 1 ChE....Wichita Falls
Allen ,Richard Clark, 3 LA....Burkburnett
Allen, Tinsley Donald, 1 AgEd....Garland
Allen, Wilbur Buford, Spec Agr....Leander
Allen, William Emil, 1 Sci....Hallettsville
Allen, Woodrow Radford, 3 Agr....Cuthbert
Allert, Robert Rothwell, 1 ChE....Galveston
Allison, George Edwin, 1 PetE....Ranger
Allison, George Thomas, 1 AA....Carthage
Allotto, Joe Henry, 1 PetE....Longview
Alsobrook, Arthur David, 2 AA....Brenham
Altick, Frank J., 3 Sci....Dallas
Altman, Benny, 3 PetE....Mexia
Alviset, Florian Harold, 1 ME....Houston
Ammon, Estle Gordon, 4 AgEd....College Station
Amsler, Dan Wood, 3 Sci....Hempstead
Anderson, Curtis Andrew, 2 PetE....Beaumont
Anderson, Dan James, 3 VM....Royse City
Anderson, Harold Monroe, 1 IE....Lometa
Anderson, John J., 4 EE, Leesville, La.
Anderson, Jack Perishing, 1 ME....Amarillo
Anderson, Lamar Weldon, 2 CE....Dallas
Anderson, Mads Clarence, 1 CE....Danevang
Anderson, Paul W., 2 AA....Marshall
Anderson, Robert Hicks, 4 EE..Stephenville
Anderson, William Kermit, 1 Sci....College Station
Anderson, William Leslie, 2 ME....Ft. Worth
Anderton, Ernest Blair, 1 AgEd....Garland
Andrews, Castleman Mazuk, 1 PetE....Greenville
Andrews, James Duke, 1 AA....Longview
Andrews, Theo Henderson, 3 Agr....Caldwell
Andrews, Walton Winn, 1 IE....Corsicana
Andrus, Washburn Hal, 2 Pre-Vet....Villard, Minnesota
Angel, Harold P., 1 EE....Plano
Angell, David Stokes, 2 LA....Jasper
Anthis, Belvin J., 2 AA....Hebronville
Anthony, William Glenn, 1 AgEd....Naples
Appelt, Osborne West, 3 ME....Gonzales
Appling, William Dexter, 1 ME....El Campo

Archer, Roy Frank, 1 Sci.....Kirbyville
Arcularius, Harry Robert, 3 ChE....Marfa
Arendale, John Morris, Jr., 2 Sci..Houston
Arledge, William Fisher, Jr., 2 ME....Dallas
Armbruster, Herman, 1 ME.....Buda
Armistead, Jack Dana, 1 LA.....Houston
Armistead, Willis William, 3 VM....Houston
Armstrong, Clifton Elliott, 2 Agr....El Paso
Armstrong, Donald Elmo, 3 Agr....Cleburne
Armstrong, George Daniel, 1 Agr....Hartley
Armstrong, Lowell Rogers, 2 AgEd..Sidney
Armstrong, Roger Woodson, 2 Agr..El Paso
Arneson, Edwin P., Jr., 3 CE....San Antonio
Arney, Thomas Earl, 1 AgEd.....Thornton
Arnold, Edwin Yates, 2 AA.....Greenville
Arnold, Jeffie Jim, 1 PetE.....Bellville
Arsuaga, Alfonso, 2 AgEng.....
.....Miramar, Puerto Rico
Ashford, John Thomas, 3 PetE....Longview
Ashworth, John Bruce, 1 EE.....La Feria
Askew, William Clark, 3 Agr.....Coolidge
Aston, Herbert P., 2 PetE....Farmersville
Atchison, John Cooke, 1 Agr.....Harlingen
Atkins, Benjamin Earl, 1 Agr.....Bryan
Atkins, Claude James, 4 AgEd.....
.....College Station
Atkinson, Charles Wallace, 2 PetE..Houston
Atkinson, Robert Leon, 1 LA.....
.....Carrizo Springs
Atkinson, Robert Mount, 2 CE.....Houston
Atkinson, William Henry, 2 Agr..Crockett
Atlee, Thomas Gilbert, 2 EE.....Kaufman
Audish, William, 1 Agr.....Brenham
Aughtry, James Davis, Jr., 2 AgEd.....
.....Valley View
Austin, Harry Guiden, 3 EE .....Belton
Austin, Merton Edward, 1 PetE....Palestine
Austin, Oren Lyle, 2 PetE.....Houston
Austin, William Lawrence, 1 EE.....
.....San Angela
Aycock, Joe Wilson, 1 ChE.....Sweetwater
Aycock, T. P., 1 Agr.....Rosebud
Ayers, John Walter, 4 Agr.....Chillicothe
Ayers, Robert Edgar, 1 ME.....Slaton
Ayers, Wallace Rey, Jr., 1 PetE....Galveston
Babb, Bennie William, 4 AA.....Comstock
Bacque, Odon L., 2 AgEng..College Station
Badgett, W. Howard, Spec ME.....
.....College Station
Baggett, Rochard Lewis, 2 AA.....Holland
Baggett, William Ramsey, Jr., 3 Agr..Ozona
Bailey, Andrea Pernie, 1 Agr.....Ballinger
Bailey, Daniel T., Jr., 1 AgEng....Marshall
Bailey, Edgar Eugene, 1 EE.....Irving
Bailey, John Arthur, 2 ME.....Ft. Worth
Bailey, John Thomas, 3 ChE.....Pharr
Bailey, J. W., Jr., 1 Agr.....Lancaster
Bailey, John William, 1 ME.....Sherman
Bailey, Lewis Edwin, 1 Sci....Ft. Stockton
Bailey, R. M., 3 GE.....Houston
Bailey, Walter Leroy, 1 CE.....Carthage
Bailey, Wilburn Rice, 1 EE.....Moody
Bain, Beecher Teal, 1 EE.....Waco
Baird, Charles Finley, 1 Agr.....Carlton
Baird, Robert Emmett, 2 Arch.....Dallas
Baird, Robert Miller, 1 ME.....Shamrock
Baker, Alfo Leroy, 1 ChE.....Abilene
Baker, Alva Otto, 3 Agr.....Comstock
Baker, Lillo Munger, 1 IE.....Abilene
Baker, Ross Conklin, 1 EE..Alexandria, La.
Baldwin, Ben A., 2 ME.....Dallas
Baldwin, Samuel Johnson, 1 AgEng..Dallas
Balfour, Burette Henry, 2 CE.....Tyler
Ball, Frank E., 2 Agr.....Pattonville
Ball, William Armour, 1 EE.....Uvalde
Ballerstedt, Richard Herman, 3 Sci..Bryan
Ballowe, Charles Bridges, 1 LA..Palestine
Balmer, Thomas Albert, 1 EE.....Beaumont
Balser, Leroy Adolph, 2 CE.....Lockhart
Bancroft, Donald Huntley, 4 PetE.....
.....Shreveport, Louisiana
Banister, John A., 2 ChE.....Mt. Vernon
Bank, William C., 1 Pre-Vet....Chicago, Ill.
Baram, George Gregory, 4 PetE.....
.....Mexico City, Mexico
Barber, James Barton, 1 AA....San Marcos
Barfoot, Leverette Hale, 4 CE....Stephenville
Barham, George Stephan, 4 LA.....
.....Nacogdoches
Barker, Albert Coleman, 3 ME..San Antonio
Barley, William Allison, 1 ME....Corsicana
Barlow, Lindsey Marcus, 1 Agr..Smithfield
Barnard, Lester Leon, 1 PetE.....Donna
Barnard, Ralph A., 2 CE.....El Paso
Barnes, Bobbie David, 2 EE.....Brenham
Barnes, Frank L., Jr., 1 Agr.....Waco
Barnes, George W., 3 CE.....Bryan
Barnes, R. C., Jr., 2 AgEng.....Belton
Barnes, William D., 2 ME....Port Arthur
Barnes, William W., Jr., 4 CE....Fort Worth
Barnett, Price M., 2 AA.....Palacios
Barnett, Wendell H., 2 AA.....Kaufman
Barr, Clinal Eugene, 1 AA.....Bonham
Barr, Robert Randle, 1 ChE.....Freeport
Barrier, Cozell Dean, 1 Agr.....Canton
Barron, Horace Truette, 1 Pre-Vet....Bryan
Barry, George William, 1 Agr.....Quanah
Bartel, Arthur, 2 Arch.....Comfort
Barthelow, Adam Joseph, 2 ChE.....
.....San Antonio
Bartlett, Ernest E., 2 IE.....San Antonio
Bartlett, Leonard, 1 Agr.....Mart
Barton, John Carroll, 1 Agr.....Rockwood
Barton, Jesse Kirby, 1 Agr.....Rockwood
Barton, Joel R., Jr., 3 Agr....Sterling City
Barton, Jimmie Wilson, 3 VM.....Temple
Barton, Warren Douglas, 2 AA.....Dallas
Bartosh, Dan Valentine, 1 ME.....Granger
Basler, Lloyd Kenneth, 1 AgEng.....
.....College Station
Bass, Harold Franklin, 1 PetE....Victoria
Bass, Samuel Dennis, Jr., 4 EE....Greenville
Basse, Wallace Frazier, 2 Agr.....
.....College Station
Bassett, A. C., 2 IE.....Stanton
Bastion, John McCauley, 3 ME..Port Arthur
Bate, Carl Dinman, 1 LA....San Augustine
Bate, Herman C., 1 ME....San Augustine
Bateman, Bill Frank, 1 LA.....Joinerville
Bates, Charles Richard, 1 Sci.....
.....Shreveport, Louisiana
Bates, Gus, 1 Pre-Vet.....Fort Worth
Batjer, Joseph Harris, 2 AgEng....Houston
Batte, John S., 1 Agr.....Cameron
Batts, Joseph Woodyard, Jr., 3 Sci..Bryan
Bauer, Austin P., 1 PetE.....Houston
Baugh, Charles Robert, 4 EE.....
.....Pauls Valley, Oklahoma
Baugh, James Harold, 2 ChE.....Temple
Baugh, Maxwell, 1 EE.....Dallas
Baugh, Rey Randall, 1 VM.....Rogers
Baumgarten, Arthur Monroe, 1 Pre-Vet.....
.....Passaic, New Jersey
Baushausen, Henry Vincent, 2 PetE..Bryan
Baylor, James Etheridge, 1 Agr.....
.....Carrizo Springs
Baylor, Raymond Vreeland, Jr., 1 ME.....
.....Mont Belvieu
Beadle, Frank Forest, 1 PetE.....Houston
Bean, Joseph Patrick, 1 Pre-Vet.....
.....Los Angeles, Calif.
Bean, Raymond Franklin, 3 Agr.....
.....Gladewater
Beard, Charles Allen, 1 PetE.....
.....Bethany, Louisiana
Beard, Leldon Fox, 1 PetE.....Rosenburg
Beasley, George Benton, 1 AA.....Ennis
Beasley, William A., Jr., 2 PetE..Greenville

Beck, Robert Clinton, 2 CE.....Harlingen
Becka, John Clarence, 3 ME.....Temple
Beckcom, Edwin A., 3 VM.....Jacksonville
Becker, George, Jr., 4 AA.....Kaufman
Beckham, Charles Addison, 1 GE....Dallas
Beckham, Vance Wesley, 1 PetE..Brenham
Beckmann, Alfred Giles, 2AA....San Antonio
Beeler, Greig Bernis, 1 ME.....Houston
Beene, Jesse Herman, 4 Agr.....Comanche
Beeson, George Thompson, 1 Agr....Paradise
Beeson, John Pierce, 1 ME....Brownsville
Beeson, Leigh C., 2 PetE.....Canyon
Behrman, James Milton, 2 Agr.....Naples
Beinhorn, William Alvin, 3 LA.....Houston
Belcher, William Alvis, 1 Agr.....Del Rio
Belden, Leonard, Spec La..College Station
Belinsky, Joseph, 1 Pre-Vet.....
.....Pawtucket, Rhode Island
Bell, Charles Henry, 4 AgEd....Brownwood
Bell, Harvey C., 2 LA.....Caldwell
Bell, James Hall, 1 ChE.....Hereford
Bell, John Payne, 1 LA.....Houston
Bell, J. Ross, 1 LA.....Childress
Bell, Richard A., 2 Agr.....Tornillo
Bell, Thomas Burke, 2 AA.....Bryan
Bell, Woodrow Morris, 3 PetE....Greenville
Bell, William Thomas, 3 VM.....Jasper
Bellamy, Jess Dee, 4 RE....Grand Prairie
Bender, Charles Robert, 2 PetE....La Porte
Beneke, Milton Nelson, 4 AA.....Houston
Berinson, Joseph, 1 Pre-Vet.....
.....Brooklyn, New York
Benner, Archie V., Jr., 3 ArchEng..El Paso
Bennet, Richard McCoy, 2 EE....Harlingen
Bennett, Benjamin Holloway, 1 Agr..Baird
Bennett, Clarence Kinsey, 2 VM.....
.....Hennessey, Oklahoma
Bennett,Horace Hudson, 4 AgEd....Decatur
Bennett, John D., 2 ME.....Derby
Bennett, Joe Fred, 2 AgEd.....Coolidge
Bennett, James Wilson, 2 AA.....Mart
Bennett, Malcolm G., 2 GE.....
.....Carrizo Springs
Bennett, Percy Berten, 1 Agr....Waxahachie
Bennett, Thomas Alton, 2 EE....Fort Worth
Bennett, William Hugh, 4 AgEd..Cleburne
Bentley, George E, 4 CE.....Dallas
Berg, Hatto Max, 1 AgEng....Fredericksburg
Berg, Lothar Edward, 3 ME..Fredericksburg
Bergman, Clayton Maynard, 1 Agr.....
.....Corrigan
Bergmann, Charles H., Jr., 2 Agr....Goliad
Bering, August C., III, 4 AA.....Houston
Berlocher, S. Harry, 3 PetE.....Houston
Bernhard, William Edward, Jr., 1 PetE....
.....Wichita Falls
Berry, Willis Elton, 2 AA.....Edgewood
Best, James Albert, 4 AgEd.....Ratcliff
Best, W. C., 3 PPE.....Fort Worth
Betanzo, Robert A., 3 AgEng.....
.....Mexico City, Mexico
Betlach, Edward Ralph, 2 Pre-Vet.....
.....Blooming Prairie, Minn.
Betts, A. Lester, 3 EE.....Hico
Bevan, David H., 2 EE....College Station
Beville, John R., 1 Agr.....Amarillo
Beville, Perry Allen, 2 AA.....Amarillo
Bewley, Frank, 4 PetE.....Sour Lake
Bibb, John Carter, 1 ME.....Edinburg
Bibb, James Richard, Jr., 2 CE....Houston
Bibb, William Ericson, 1 AgEd.....
.....Munford, Tennessee
Bielstein, Walter Joe, 3 PetE.....Baytown
Biggs, Marshall Lewis, 2 Arch....Fort Worth
Bigham, Charles Wilson, 1 Pre-Vet....Troy
Bills, Ralph Carmack, 1 AA.....Dawson
Bills, William Mayo, 1 ME.....Hubbard
Bing, Byron Udell, 1 Agr.....Oakwood
Bingham, George Marion, 1 ChE.....
.....Normangee
Bird, Clayton Arthur, 2 PetE.....Texon
Bird, George Tillotson, 2 EE.....Donna
Birdson, Searcy, Jr., 3 Sci.....Longview
Birnbaum,Irvin Sanford, 2 AA.....
.....San Antonio
Birnbaum, Joseph, 2 AA.....San Antonio
Biron, Jules, 1 CE.....Galveston
Birt, Bryan Benton, 2 ME.....Harper
Bischoff, H. A., 2 LA.....San Antonio
Bishop, Fred Alden, 3 Agr.....Mason
Bishop, George Finley, 2 ChE.....Temple
Bishop, James Benton, 2 Agr....Georgetown
Bishop, Joseph Jackson, 1 AgEd....Cumby
Bistrow, Elvin Israel, 1 PetE.....Houston
Black, George Lee, 1 ME.....Waxahachie
Black, Henry Jack, 1 Agr....Breckenridge
Black, Jean Jaures, 3 VM.....Ames, Iowa
Black, James Leslie, 1 Agr.....Big Lake
Black, Joseph M., Jr., 4 VM.....Marshall
Black, Robert George, 1 ArchEng....Austin
Black, Robert Sigman, Jr., 4 CE.....
.....Clifton, Arizona
Black, William H., 1 CE.....Jewett
Blackwell, Charles Arlie, 1 PetE.....
.....El Dorado, Arkansas
Blair, George B., 2 AA.....Lubbock
Blair, Philip Joseph, 3 AA....College Station
Blair, William Robert, 2 CE.....El Paso
Blake, Gene Frederick, 2 Arch.....Hearne
Blakemore, William Saunders, 1 ME.....
.....Greenville
Blakeney, Thomas Gill, 3 AgEng....Bowie
Bland, Robert Oscar, 2 AgEd.....Rusk
Blankenship, Dolman A., 2 Agr.....
.....Stephenville
Blankenship, Guy, Jr., 2 Sci.....
.....Crockett
Blanks, Jimmie M., 2 Agr.....Aubrey
Blaschke, Lester Emil, 1 ME.....Ingleside
Blasingame, Jesse Joe, 4 EE.....Ennis
Blevins, Jess Guye, Jr., 4 TE.....
.....College Station
Blocker, William Edward, 1 Agr....Encinal
Blodgett, Robert Wayne, 4 AA.....Wickett
Blohm, George Lee, 1 PetE.....Houston
Bloodworth, William Allen, 4 Agr....Silver
Blume, Walter, 2 PPE.....San Antonio
Blumenthal, Jacob, 2 Pre-Vet.....
.....Roselle, New Jersey
Blunt, Paul Boren, 3 VM....San Antonio
Boaz, Delmar F., 1 PetE.....Mexia
Bobbitt, Bryan W., 1 Agr.....Hillsboro
Bobbitt, Edward H., 1 Agr....College Station
Bockhorn, Harold Fred, 2 AA.....Brenham
Bocquet, Philip Edmund, 1 ChE....Beeville
Bodine, Claude Lewis, Jr., 1 ChE.....
.....Lake Charles, Louisiana
Boettcher, Reinhardt Bruno, Jr., 3 AA.....
.....East Bernard
Bohning, William G., 1 Agr.....Lometa
Bokenkamp, Freeman Harold, 1 LA.....
.....Houston
Boland, Robert Norman, 2 Agr....Atlanta
Boling, Jack A., 4 AA.....Temple
Bolling, David Randolph, 1 Pre-Vet.....
.....Palacios
Bond, Edmond Van, Jr., 3 PetE....Victoria
Bond, Royce W., 1 PetE.....Houston
Bone, John Henry, 3 AA.....Wichita Falls
Bone, James Robert, 1 Me.....Waco
Bone, Lealon C., 4 AgEd.....Nacogdoches
Bonner, William P., Jr., 3 Agr.....Athens
Booher, Rudolph D., 1 AgEd.....Ector
Bookman, Ronald Westmoreland 2 PetE....
.....Houston
Bookout, Roderick Edward, 1 Agr.....
.....Crystal City

Booth, Woodrow Leon, 4 ChE....Fort Worth
Borden, David Richard, 1 Pre-Vet.....Hartford, Connecticut
Borders, William Earnest, 1 EE....Ft. Worth
Bornefeld, Herman Arthur, 1 ME.....Galveston
Bosse, Billie, 3 Agr.....Beaumont
Boston, Jody F., 4 Agr.....Kress
Boswell,Henry Kimes, 4 ChE.....Barry
Boswell, Harry Rex, 2 ChE.....Vickery
Boswell, James Nelson, 4 Agr....Plainview
Boswell, Robert Poque, 2 Agr.....Kenedy
Botard, Ernest John, 2 Agr.....Alice
Bounds, Eugene Bunyon, 4 AgEd.....Tehuacana
Bowen, Clifton Capel, 2 AA....San Antonio
Bowen, Charles John, 1 LA..Pamona, Calif.
Bowen, Don B., 1 Agr.....Sterling City
Bowen, Marion Ernest, 2 VM.....Austin
Bowers, John Lowry, 4 Agr.....Troy
Bowers, Lee Jackson, 1 Pre-Vet.....Troy
Bowie, Robert Gerald, 4 ME.....El Paso
Bowie, Ted Allen, 4 ME.....San Benito
Bowman, Earl E., 4 PetE.....Houston
Bowman, Howard Louis, 1 CE.....Cherokee
Bowman, Roland John, 1 Agr..San Antonio
Bownds, William Aubrey, 1 Agr....Houston
Bowyer, John McDonald, 1 Agr....Abilene
Box, Joe Walter, 1 LA.....Rosebud
Boyce, Donald McCabe, 1 Agr.....Dallas
Boyd, G. T., Spec LA.....College Station
Boyd, Joe Milton, 1 LA.....Dallas
Boyd, Lynn Albert, 1 ME.....Fort Worth
Boyd, Micheal A., 3 Agr.....Amarillo
Boyd, William Knight, 3 Agr.....Amarillo
Boyd, William Oscar, Jr., 2 LA....Gilmer
Boyle, Gaines Maness, 2 Agr.....Paris
Boyle, Richard Bernard, 4 TE....Fort Worth
Bracewell, Joseph Searcy, 3 LA....Houston
Bracher, Clint Wilbert, 1 AgEng.....Port Lavaca
Braddy, William Lloyd, 2 Agr....Fort Worth
Braden, David Patrick, 1 PetE....Kerrville
Bradford, Winston Jack, 2 Arch.....Sweetwater
Bradley, George V., 1 Agr.....Dublin
Bradley, James C., 2 EE.....Sweetwater
Bradley, John P., 2 ME.....San Antonio
Bradley, Joseph Weldon, 3 Agr.....Dublin
Bradley, Ralph, 4 AgEd.....Stephenville
Bradley, Wright, 2 PetE.....Palestine
Bradshaw, Donald Kenneth, 2 ME....Houston
Bradshaw, Joseph Kenton, 3 AgEd.....Springtown
Bradshaw, Thomas Eugene, 3 ME....Houston
Braikovich, Andrew Christopher, 4AA.....Galveston
Brain ,David Carey, 2 Sci.....Dallas
Bransom, George Edward, 2 ME..Burleson
Brassell, Richard Wiley, 1 ME.....Mineral Wells
Braswell, D. Ernest, 3 EE.....Dallas
Bratton, Alvis Truman, 4 Agr....Comanche
Brauchle, Robert Rudolph, 3 AgEd.....San Antonio
Braunig, Hubert Edwin, Jr., 1 PetE.....Beaumont
Braunig, William A., 1 PetE.....Yorktown
Brautigam, Victor Baldwin, 1 ChE..Tomball
Bravenec, Victor Anton, 1 AA.....Temple
Bray, William Randall, 1 ME.....Houston
Brazelton, William Buchanan, 2 GE....Waco
Breaux, Fred Randolph, Jr., 1 AA....Houston
Breeding, Luther Earl, 4 AgEd.....McLean
Breeding, Ralph Dohoney, 1 ME.....Gainesville
Breedlove, Sam R., 4 ChE.....Stratford
Breithaupt, Claude Vernon, Jr., 1 AgEng.....Corsicana
Breland, James Edward, Spec CE.....College Station
Brennan, Harry William, 2 PetE....Cisco
Brennan, William Philip, Jr., 3 ME.....Crystal City
Brent, Edwin, 2 Sci.....Bonham
Brewster, James Ed, III, 3 Agr.....Temple
Brewster, Olin Findley, 1 Agr.....Temple
Brewton, Earle M., 1 ME.....Trinidad
Bridges, James McCoy, 1 PetE.....Houston
Brigance, Joe H., 1 PetE.....Brazoria
Brigham, Jim Stanford, 1 LA....Big Springs
Brinkoeter, Raymond William, 1 PetE.....New Braunfels
Bristley, Leon P., Jr., 2 Sci.....Liberty
Britain, David W., Jr., 1 PetE.....Amarillo
Britt, Adolph Rankin, 1 RE.....Ranger
Britton, Nathaniel, 3 Agr.....Stephenville
Broach, Fred Samuel, 1 AA.....Munday
Brock, Gunther Adolph, 2 VM.....Dallas
Brockschmidt, Robert Frederick, 3 ChE.....Dallas
Brod, Robert Nelson, 2 ME....Corpus Christi
Brodnax, Cox William, 2 VM.....Bryan
Bronstein, Joseph B., 1 AgEng..Big Spring
Brookover, W. D., Jr., 1 LA....Brownwood
Brooks, Barnard B., 2 ChE.....Gorman
Brooks, Henry Wellington, 1 ME....Shafter
Brooks, Joe Myers, 3 AA.....Denton
Brooks, Tom Ray, 2 AA.....Denton
Brooks, Walter Atwood, 3 PetE.....Corpus Christi
Brooks, Willard C., 2 VM.....Prairie Grove, Arkansas
Brotemarkle, Norman Irvin, 1 PetE.....Palacios
Broussard, George Patout, 2 VM.....College Station
Broussard, Paul Denis, 3 AA.....Freeport
Browder, Charles DeWitt, 2 PetE.....Dallas
Brown, Alexander Allen, 2 AA.....San Antonio
Brown, Arthur King, 4 PetE....Fort Worth
Brown, Allen Ted, 1 Agr.....Pasadena
Brown, Charles Arthur, 1 PetE.....Wink
Brown, Charles Sumners, 2 Agr....Mathis
Brown, Donald Henry, 3 PetE.....Decatur
Brown, Edgar D., Jr., 4 Arch.....Cint
Brown, Ewing E., 4 RE.....College Station
Brown, Edwin S., 2 Agr.....Beeville
Brown, G. W., Jr., 1 ME.....Fort Worth
Brown, Harry George, Jr., 2 CE.....Oklahoma City, Oklahoma
Brown, Joseph Clifford, 1 ChE....Hartley
Brown, Jim Griffis, 3 ME.....Waco
Brown, John Henry, Jr., 1 ME....Corsicana
Brown, Joe L., 4 LA.....San Antonio
Brown, John M., 2 EE.....Paradise
Brown, James Nelson, 4 VM.....Aberdeen, Mississippi
Brown, Jack Tyra, 4 AA.....Luling
Brown, Lewis, 1 Agr.....Henrietta
Brown, Miller French, 2 Agr.....Beaumont
Brown, Neville S., 1 ME.....Galveston
Brown, Raymond Herbert, 1 Pre-Vet.....Kerrville
Brown, Ryse La Hunter, 1 PetE.....Somerville
Brown, Thomas Markham, 3 PetE....Houston
Brown, Thomas Norman, 3 EE.....Houston
Brown, Walter Douglas, 2 Agr....Beaumont
Brown, Winfred Wayne, 1 CM.....Hobby
Browning, James Marvin, 1 Agr.....Losita
Brownlee, John Herring, 1 EE.....College Station
Bruce, Paul Hendrix, 1 ChE....Gladewater
Bruckner, John, 2 Agr....Chicago, Illinois
Brumble, George Heath, 2 VM.....Richmond, Virginia

Brundrett, Frank Wilford, 4 VM.....Dallas
Brundrett, Warner Morris, 1 PetE....Dallas
Bryan, John, 3 Agr.....San Angelo
Bryant, James Harry, 2 AA.....Corsicana
Bryson, Bernard Glenn, 2 VM.....Shreveport, Louisiana
Bryson, Charles E., 2 RE.....Hamlin
Bryson, Charles Guinn, 1 PetE.....Tyler
Buchler, Peter Plasiworth, 1 Pre-Vet.....New Orleans, Lauisiana
Buckley, John Neely, 1 PetE.....Houston
Buckley, Wilson Bane, 3 Agr.....Holland
Buckley, Wilson Berriman, 1 CE.....Weatherford
Budewig, William Alvin, 2 Sci.....Liberty
Buford, William Ragsdale, 4 EE....Terrell
Bugh, Chester Leroy, 3 ME.....Houston
Buie, Davis W., 4 AA.....Gilmer
Buie, Robert Chalmers, 1 Agr....Waxahachie
Buie, William Clark, 1 PetE.....Mertens
Bukowski, Ted John, 1 ChE.....Bryan
Bullard, Roy James, 1 ME.....Galveston
Bullington, Grover Cleveland, Jr., 1 AA.....Wichita Falls
Bullock, Quenton Smith, 1 ChE.....Bryan
Bullock, Thomas Albert, 2 PetE.....Bryan
Bumpers, Lemuel Pierce, 1 Agr.....Albany
Bunnell, Jimmy Frank, 1 PetE..Brownwood
Buntin, Lewis Doss, 1 Agr.....Plainview
Burch, Charles Austin, 1 ME....Big Spring
Burch, Foster Cochran, 1 ChE....Hempstead
Burch, Frank Wilson, 1 AA....Wichita Falls
Burch, George Riley, Jr., 3 VM.....Wichita Falls
Burchfield, Roy Wade, 2 LA.....Bonham
Burden, Robert Darrel, 4 Agr.....Chester
Burgess, Edgar Beaumont, 3 Agr..Ft. Worth
Burgess, V. N., 2 PetE.....Dallas
Burk, Donnie Gainer, 1 AA.....Rochelle
Burk, Jack, 2 PetE.....Port Arthur
Burk, Orval Lee, 3 AgEd.....Eden
Burkes, John Tom, Jr., 1 Agr.....Reagan
Burkett, Albert LeRoy, 2 AgEng.....College Station
Burkett, Joseph Elwood, 1 Agr.....Tyler
Burleson, Larry Lee, 1 Agr.....Mart
Burnett, Paul Cliff, 1 Sci.....Marshall
Burnett, Roy Edwin, 1 AgEd.....Bonham
Burnett, Samuel Hampton, 1 Agr..Corsicana
Burnett, William George, 4 EE.....Dallas
Burney, Charles Roy, 2 PetE.....Houston
Burnham, David Reed, 2 AA.....Waco
Burns, Bert Harrell, 1 ME.....PortArthur
Burnside, Neil Delmont, 2 Agr.....Bellaire
Burow, Martin, 3 Sci.....Comfort
Burrus, Joe H., 4 EE .....Houston
Burrus, Marvin Mahlon, 1 Pre-Vet....Byers
Burtner, B. Parrish, 1 CE.....Roxton
Burton, Bill, 2 Agr.....El Paso
Burton, William Arthur, 2 CE..Mt. Peasant
Busby, Jack Elmer, 1 ME.....Houston
Bush, Forest Woodrow, 2 Arch.....Houston
Bush, Robert Ewell, 2 Sci.....Palestine
Bussey, James Tilden, 2 CM.....Childress
Buster, Wilson B., Jr., 1 Agr.....Junction
Butcher, Charles Edward, 2 LA....Houston
Butler, Elwin DeWitt, 3 AgEng....Graham
Butler, Hayden Glenn, 1 LA.....Dallas
Butler, Jerry, 1 ME.....Freeport
Butler, Ogbourne, Duke, Jr., 2 Agr..Orange
Butler, Weldon C., 4 CE.....Saginaw
Butler, W. J., 1 ChE.....Greenville
Butler, William Jarvis, 2 AA.....Orange
Button, Chris Taylor, 1 CE.....Little Elm
Buttrill, Carrol Oliver, 3 ChE....Port Arthur
Buttrill, Henry Burns, 1 AA.....Decatur
Buttrill, Wilbur D., 1 AgEd.....Denton
Bynum, Rufe S., 3 PetE.....San Antonio
Byrd, Cecil Ellard, 2 VM.....Colorado
Byrd, Charles Lively, 4 Agr.....Mesquite
Byrd, Lawrence Herman, 4 ChE.....Jacksonville
Byrd, William Murphy, 4 AgEd....Colorado
Byrne, Joe Pat, 1 ME.....Austin
Cabaniss, Bert Adron, 1 EE.....Lockhart
Cabaniss, Joe Edward, 2 Agr.....Mathis
Cabaniss, Jack Knisley, 3 CE....Fort Worth
Cabaniss, Walter Mark, Jr., 1 ME.....Chattanooga, Tennessee
Caffrey, James Sentell, 1 ME.....Cisco
Cain, Ben Frank, 1 Agr.....Shamrock
Cain, Charles Mathews, 2 LA.....Uvalde
Cain, James Carl, 1 Agr.....Kemp
Cairo, Louis Joseph, 1 Sci..Rio Grande City
Cajka, Daniel Lynell, 2 Agr.....Wheelock
Caldwell, Roy, 1 LA.....McKinney
Calhoun, Jack, 1 Agr.....Sherman
Calhoun, Zadoc Abell, 1 AA....Mineral Wells
Calk, Eldon T., 1 Sci.....Coleman
Callan, Wilton Leon, 1 AA.....Wheeler
Callaway, George Denton, 4 ChE....Newgulf
Callaway, Herbert, 4 PetE.....Crockett
Calvert, Hugh White, 1 CE.....Brady
Calvert, Wilbert Adair, 3 LA....Archer City
Calvin, Charles Burton, 3 Sci....San Antonio
Cameron, Robert G., 3 AA....San Antonio
Camp, John Thomas, 1 ME.....Beaumont
Camp, Lynn Butler, 2 Agr.....Lockhart
Camp, Walter, 2 Agr.....Wellington
Campbell, Bruce B., 3 ME.....Sabinal
Campbell, Ed Roberts, 2 Agr.....Brady
Campbell, Gordon Miller, 2 CE.....Tyler
Campbell, Joe Haskell, 3 PetE.....Midland
Campbell, Jason L., 3 ME.....Dallas
Campbell, Joe Riley, 3 AA.....Hillsboro
Campbell, Luther Lee, 1 CM.....Taft
Campbell, Thomas Grayson, 2 AgEng.....San Antonio
Campbell, Thomas McCormick, 2 ChE.....Houston
Campbell, Tom Roberts, 1 Sci....Knox City
Campbell, William Gibbs, 2 Agr.....San Antonio
Campion, James Timothy, 1 ME.....Dallas
Canady, Millard Erastus, 1 ChE.....Sulphur Springs
Canfil, Lloyd Weldon, 2 ME....Sweetwater
Cannon, James Thomas, 2 PetE....Angleton
Cantini, Francis Oscar, 1 LA....Galveston
Cantrell, Joy Culberson, 1 LA.....Neches
Capote, Orfilio Ruben, Spec Agr.....Cienfuegos, Cuba
Caraway, Prentice Alvin, 3 Sci..Goldthwaite
Caraway, Vestal Henry, 1 PetE.....Houston
Carden, Darrell D., 1 AgEng.....Killeen
Carey, Earl, 1 PetE.....Wichita Falls
Carey, Marion Byron, 1 AgEng..White Deer
Cargill, Charles Wayne, 1 IE.....Pasadena
Carlisle, John M., 2 Sci.....Kaufman
Carll, E. William, 2 LA.....Waco
Carnahan, Bailey G., 4 Agr...San Antonio
Carney, Harold Powell, 1 PetE....Denton
Carpenter, Albert Lewis, 1 PetE....Bellville
Carpenter, Claude Cecil, 3 AA....Littlefield
Carpenter, Guy Everett, 1 Agr..Mt. Vernon
Carpenter, Hugh Curlee, 3 AgEng....Dallas
Carpenter, Henry Dunphe, 2 VM....Bryan
Carpenter, Robert William, Jr., 3 AA.....Frisco
Carrington, DeWitte Cameron, Spec Chem..Marquez
Carrington, Joe C., Jr., 2 Sci.....Austin
Carroll, Jim Magill, 4 EE.....Denton
Carroll, Paul Macrae, Jr., 1 PetE....Houston
Carroll, Robert Everette, 2 VM.....Abilene
Carroll, William Robert, 2 PetE....Houston

Carson, Keyes Facett, 1 Agr.....Cuero
Carson, Ray, Jr., 1 ME.....Holliday
Carstens, Joe E., Jr., 1 PetE.....Houston
Carter, Claude Westley, 3 AgEd.....Novice
Carter, Eugene Rawlings, 3 AgEd.....Stephenville
Carter, Frank Stephen, 1 PetE.....Wichita Falls
Carter, Hugo Charles, 1 EE.....Caldwell
Carter, James D., 3 Agr.....Poolville
Carter, John Harvey, 1 Agr.....Childress
Carter, Preston M., 2 PetE.....Texarkana
Carter, Roland Hill, 1 PetE.....Dallas
Carter, Wendell Carl, 1 Sci.....Austin
Carter, Winford Woodrow, 3 AgEd.....Decatur
Caruthers, Edward B. B., 3 ME.....San Antonio
Caruthers, Robert Eldon, 2 RE.....Moody
Casad, Humboldt, Jr., 3 AgEng..Canutillo
Casbeer, Thomas Jefferson, Jr., 4 Agr.....Lampasas
Case, Charlie Harmon, 2 AgEng.....Carrizo Springs
Casey, Theron Delon, 1 Arch.....Longview
Casey, Tommy Wendell, 1 EE.....Irving
Cash, Foster Lawson, 1 ChE.....Pioneer
Cassin, William, 1 ChE.....San Antonio
Castleberry, Edmond W., 4 AA.....Paris
Castleberry, J. Harold, 3 Sci.....Albany
Castro, Fred Edward, 1 Pre-Vet.....San Francisco, Calif.
Cate, Robert Marvin, 2 PetE.....Cleburne
Cates, Homer Alton, 1 ME.....Dallas
Caughran, Morgan B., 2 ArchEng....Munday
Cavender, William Dennis, Jr., 1 EE.....Dallas
Caylor, Robert Eugene, 1 ME.....Austin
Cazell, Gabriel Francois, 4 LA.....Bryan
Cazell, Robert Barnard, 2 LA.....Amarillo
Cecil, William Walter, 1 AA.....Freeport
Cely, Jack Cleveland, Jr., 4 AgEd.....Frankston
Cely, Tom R., 4 Sci.....Frankston
Cerna, Othon Jauier, 2 ChE....Eagle Pass
Cervenka, Landis E., 3 ME.....Rowena
Chadwick, Charles William, 2 VM.....College Station
Chadwick, Vernon Davis, 3 VM.....College Station
Chamberlain, Clifton Henry, 1 PetE.....Marlin
Chamberlain, Nugent Francis, 4 ChE.....Henderson
Chamberlain, Paul, 1 EE.....El Paso
Chambers, Kenneth, 2 LA.....McKinney
Chambless, Rodney Frank, 4 AgEd.....Madisonville
Champagne, Roy Noah, 1 ME..San Antonio
Chandler, Darrell Edison, 3 PetE....Gilmer
Chapman, Alvin Rue, 2 PetE.....Smackover, Arkansas
Chapman, Charles Calvin, 4 ChE....Forney
Chapman, Elton Garland, 1 Agr.....Avoca
Chapman, Lee Roy, 2 VM.....Roscoe
Chapman, Robert Lee, 1 ME....Greenville
Chase, Albert Lee, 1 EE.....Waco
Chase, Jack B., 2 PPE.....Dallas
Chastain, Claude Bryson, 1 ChE.....Rising Star
Chastain, Garvin Dunn, 2 AA.....Ranger
Chatmas, James C., Jr., 4 AA.....Marlin
Chauvin, Philip Hale, 2 Agr.....Little Rock, Arkansas
Chedester, Ernest Mitchell, 1 Pre-Vet.....Cordell, Oklahoma
Chedester, Louis Dixon, 1 Pre-Vet.....Cordell, Oklahoma
Cheek, Andrew Roy, 3 Agr.....Cherokee
Chenault, Maxey Cleburne, 4 ArchEng....Snyder
Cherry, Joe W., 2 ME....Shreveport, La.
Chesnutt, Sam Denver, Jr.,, 2 ChE.....Kenedy
Chevaillier, Lewis Beall, 2 AgEng.....Marshall
Chick, Lewis William, 3 ME....Twin Sisters
Christian, Ben Emory, 3 Arch.....Claude
Christian, Bernard Gaston, 2 LA.....Dallas
Christian, Levelle Jeff, 1 Agr.....McLean
Christian, Paul, 2 VM.....Waco
Christopherson, Elmer Melvin, 1 Pre-Vet..Fosston, Minn.
Church, Warren Elan, 2 Agr.....Colorado
Clark, A. L., Jr., 1 ME.....Port Neches
Clark, Everett Cleveland, 3 CE.....Devers
Clark, Fred W., Jr., 3 EE.....Van Horn
Clark, James E., 3 Agr.....Liberty
Clark, Jack Whalen, 2 ME.....San Benito
Clark, Nathan Ray, 3 ME.....Burleson
Clark, Robert Maurer, 2 VM.....Bryan
Clarke, Alexander, Jr., 1 PetE....Coleman
Clary, Jim C., 3 AA.....El Paso
Clary, Sidney Ray, 1 AA.....Greenville
Clay, Albert William, 1 PetE.....Houston
Claybourn, George Edwin, 1 Arch.....Palestine
Clayton, Jesses Davis, 1 AgEng....Hereford
Clearman, Hugh Lee, 3 Agr.....Lamesa
Clemens, Frank Carter, II, 2 ME....Houston
Clements, John Felix, 1 ChE.....Crowley
Clements, Robert Lee Roy, 1 PetE.....Princeton
Clendenin, Cecil, 4 AgEd.....Bluff Dale
Clepp, Joseph Herbert, 1 Agr.....Waco
Cleveland, Dale Powell, 3 AA....Granbury
Clonts, Joe J., 3 AA.....Thornton
Clopton, Thomas Steele, 2 PetE....Amarillo
Cloud, Bruce Benjamin, 1 CE....San Antonio
Cloudt, Chester Roger, 2 AA....Rocksprings
Cloudt, Frank Otis, 3 Agr.....Rocksprings
Cloudt, Otto Bismarck, Jr., 2 Agr.....Rocksprings
Cloudt, Walter Oto, 2 AA.....Rocksprings
Clubb, Randolph Larance, 1 Agr..Beaumont
Cobb, Ralph York, 1 AA.....Bryan
Coburn, George Carlton, 2 VM.....Bryan
Cochran, Chud Ben, 2 ME....San Antonio
Cochran, Woodrow Nash, 3 LA.....Lufkin
Cockrell, Joseph E., 3 PetE.....Dallas
Cody, James Robert, 1 LA....Farmersville
Coe, Thomas Buchannan, 2 AgEd....Kountze
Coffey, Lee Clayton, 1 Agr.....Zephyr
Coffey, Murray B., 4 AgEd.....Richland Springs
Coffin, William Arthur, 2 Agr.....Mathis
Coffman, Anthony Kevil, 2 ChE.....Goree
Cohen, Stanley Edward, 2 Pre-Vet.....Easton, Pennsylvania
Cohn, Harry, 2 ME.....Dallas
Coker, Kelley A., 1 PetE.....Magnolia
Coker, Robert Truitt, 1 Agr....Mt. Pleasant
Cokinos, Geneos Pete, 2 PetE.....Beaumont
Cokinos, Jimmie Pete, 1 Sci.....Beaumont
Colbath, Dan Louis, 1 PetE.....Dallas
Colburn, William Lee, 1 Agr.....Winters
Cole, Ross Hill, 1 Agr.....Little River
Cole, Thomas E., 3 Agr.....Eddy
Coleman, Paul H., 3 CE.....Bonham
Coleman, William David, 1 Pre-Vet..Graham
Colgin, Clarence Homer, 1 ChE..Brownsville
Collard, Frank, 1 CM.....Honey Grove
Collensworth, Rampy Blesdal, 1 Agr.....Winters
Collerain, Joseph Bernard, 4 AA....Houston
Colley, Roland Lee, 2 VM.....Alvin

Collie, Robert Monroe, 3 CE.....Pecos
Collier, Fred Allan, 4 LA.....Giddings
Collier, Jesse Wilton, 3 Agr.....Killeen
Collier, Robert E., 1 AA.....Abilene
Collins, Alfred Clark, 1 CE.....Crockett
Collins, Carl Leroy, 1 LA.....Cleburne
Collins, James Watts, 2 PetE..Cross Plains
Collins, Robert Ervin, 2 ChE.....Dallas
Collins, Tom F., 2 Agr.....Garden City
Collins, William Denny, Jr., 4 AgEd.....Crockett
Colquitt, Rawlins Murrell, Jr., 1 LA..Dallas
Colson, William Nolan, 2 AA.....Bryan
Colvert, Warren P., 2 ME...San Antonio
Comnas, Peter Harold, 2 AA.....Cuero
Compton, Joe W., Jr., 4 Sci.....Palestine
Conley, George De Bard, 1 ME....Houston
Conley, James Stuart, 1 ME.....Texon
Conly, John Charles, 3 EE.....Laredo
Conly, Paul Thomas, 1 ME.....Laredo
Connally, Clarence, Jr., 2 ChE.....Waco
Connally, Clem Brandon, 3 ME.....Waco
Connolly, Richard Noble, 4 AA.....Corpus Christi
Connolly, William S., 1 AA.....Whitner
Connor, James Michael, 1 ChE.....Midland
Connor, John Royace, 3 Agr.....Hubbard
Conolly, Sidney McLean, 2 LA.....Corpus Christi
Contella, Carl Joseph, 1 AA.....Caldwell
Cook, David Andrew, 3 ME....Waxahachie
Cook, Emmet Edward, 1 ME....Fort Worth
Cook, Everett E.., 4 Sci.....Bushland
Cook, John Albert, Jr., 2 LA.....Cotulla
Cook, John Charles, 1 AgEng....Franklin
Cook, James Gwin, 2 LA.....Sinton
Cook, John Melvin, 1 LA....Carrizo Springs
Cook, Jack Robert, 1 Sci.....Big Spring
Cook, Julius Walker, 2 AA.....Jonesboro
Cook, Maurice Ulric, 1 PetE.....El Dorado, Arkansas
Cook, Thomas E., 2 AA.....Gilmer
Cook, Truman F., 3 ChE.....Houston
Cooke, Milton M., 4 PetE.....Dallas
Coon, Reagan Patterson, 4 Agr..Wills Point
Cooper, Jack G. W., 2 PetE.....Dallas
Copeland, James D., 1 Agr..College Station
Copeland, J. E., Jr., 1 ME.....Pettus
Coquet, Lucien James, 3 EE.....Abilene
Cordell, Barton Daniel, 3AA.....Fort Worth
Corder, Frank Henderson, 1 Agr.....Rocksprings
Corgey, Louis Terrell, 1 Agr.....Edge
Corley, Donald Wesley, 1EE.....Pittsfield, Massachusetts
Corley, James Delbert, 1 LA....Breckenridge
Corley, John, 1 PetE.....Terrell
Cornell, Drew, 1 PetE.....Houston
Corrin, William Garrett, 1 PetE..Ft. Worth
Corry, Willard E., 2 VM.....Bryan
Coston, Fred Monroe, 1 LA.....Dallas
Coston, John Borden, 4 Agr....Harlingen
Couch, J. B., 2 VM.....Grandview
Couch, John Pinkney, 1 GE.....McKinney
Couch, Robert Carlton, Jr., 1 Agr..Haskell
Coulson, Edward Donald, 3 LA.....Houston
Coultas, John Rogers, 1 Sci.....Brownsville
Coulter, Harry Orestus, 1 Agr.....Moody
Counselman, Orville Lewis, 2 ChE....Conway
Counts, Melbourne C., 1 Agr....Ft. Worth
Counts, William Madison, 3AA...Ft. Worth
Courreges, Emile Joseph, 2 AA Mineola
Coursey, Joe, 1 ChE.....Lubbock
Courtade, Arthur Henry, 3 AgEd....Riesel
Courtney, Thomas, Jr., 1 ME.....Shreveport, Louisiana
Cousins, Otie C., 1 ME.....Bryan
Cousins, Sidney Ivan, 4 ME.....Bryan
Covington, Homer Baker, 2 Arch.....College Station
Covington, Joe C., 1 EE.....Mineola
Cowan, William Bryant, Jr., 3 AgEd.....Stephenville
Coward, James Webster, 1 ME....Jourdanton
Cowey, Robert Allen, 1 ME.....Galveston
Cowsert, Alonzo A., 1 AA....Rocksprings
Cox, Claud V., 1 AgEd.....Dublin
Cox, Earl H., 2 AgEd.....Raymondville
Cox, Lowell Lewis, 1 PetE.....Tomball
Cox, N. A., 4 VM.....Ralls
Cox, Raymond Edward, 2 EE.....Amarillo
Cox, Thomas Marion, 1 AA.....Palmer
Cox, Valton V., 2 VM.....Ralls
Cox, Wilburn Clyde, 1 EE.....Waco
Cox, X. B., Jr., 4 Agr.....San Angelo
Coyle, Emmanuel F., 3 VM....College Station
Cozart, William Adolph, 3 Agr.....Abilene
Crabtree, Lloyd George, 2 Sci.....Daisetta
Crabtree, Martin P., 2 CE.....Decatur
Craig, Bobby N., 4 AgEng.....Panhandle
Craig, Jack, 2 GE.....Houston
Cramer, Maurice Boyd, 4 Sci.....Pharr
Crase, Harold James, Jr., 5 Arch.....College Station
Craven, James David, 4 LA.....Laredo
Cravens, Edward Eugene, 4 AgEng.....San Antonio
Cravens, Gerald McAdoo, 2 EE.....San Antonio
Crawford, James Noble, 1 LA....Greenville
Crawford, James W., 1 ME.....Amarillo
Crawford, William N., 1 EE.....Navasota
Crews, James Franklin, 4 CE.....Dallas
Crews, Lloyd Inge, 3 ChE.....Trinidad
Crews, Logan Walter, 2 Agr.....Lindale
Crews, Sam, Jr., 1 ME.....Crowell
Crews, Sim Harlton, 4 PetE.....Tyler
Crichton, Jack Alston, 4 PetE.....Crichton, Louisiana
Crisman, Orvil Wayne, 3 PetE.....Overton
Crist, James L., 2 Agr.....Sweetwater
Criswell, Dallas Lupton, 2 ME.....Calvert
Criswell, James Wilson, 1 AA.....Forney
Critz, James Stubbs, 2 GE.....Teague
Crockett, Jack Edward, 2 Agr....San Saba
Croft, Loyd Wash, 1 EE.....Hallsville
Cron, Lawrence Everett, 4 AA.....Alamo
Crook, Charles B., 4 TE.....Granbury
Crook, George Melvin, 2 AgEd.....Nixon
Crosnoe, Thomas Cline, 1 ME....Hope, Ark.
Crouch, Leroy W., 1 Agr.....Roanoke
Crouse, Forest D., 1 Agr.....Mart
Crow, Cecil W., 3 LA.....Dallas
Crow, Joe Boone, 2 ME.....Waco
Crow, Lawrence Milton, 3 LA.....Waco
Crow, Ulrich Wilson, 2 AA.....Normangee
Croxton, Joe Henry, 1 PetE.....Fort Worth
Crumley, John Thomas, 1 Agr.....Petty
Crump, James Francis, 2 AA....Paducah
Crump, James M., 2 EE.....Dallas
Crump, Walter Pershing, 1 AA.....Dallas
Cruse, Aubrey Randolph, 1 AA....Pasadena
Crutchfield, J. Clifford, 3 Agr....Singleton
Cuffman, Joe R., 3 Agr.....Allen
Culbertson, William O., Jr., 3 Agr....Dalhart
Cullers, Elmer W., 1 Sci.....Megargel
Cullinan, Robert Joseph, 1 LA.....Houston
Cullom, Thomas Leslie, 2 PetE.....Dallas
Cullum, Felder Wilson, 2 ME.....Dallas
Cummer, William Francis, 2 ChE....Houston
Cummings, Carroll J., 1 LA.....Ivanhoe
Cummings, Leslie L., 3 PetE.....Bryan
Cunningham, Arthur Lee, 1 EE....Crockett
Cunningham, Atlee Marion, 2 CE....Calallen
Cunningham, Calvin Perry, 1 Sci.....Tyler
Cunningham, Earl C., 2 PetE.....Waco

Cunningham, George H., 2 Agr....Corsicana
Cunningham, Joseph Anderson, 4 AgEd....Bryan
Cunningham, Thomas Homer, 4 AgEd.....Bonham
Cunningham, William Robert, 1 PetE.....Houston
Cupp, Louis Roger, 3 LA.....Tyler
Curington, Henry Wisdom, 3 CE.....Albany
Curley, Wallace Stephen, 3 AA....Bridgeport
Curry, Bill Jack, 2 PetE.....Texon
Curry, Ivan M., 4 AA.....Mart
Curry, Lee, 2 Agr.....Brenham
Curtis, Alton Floyd, 1 Agr.....Goliad
Curtis, Russell C., 4 ChE.....Abilene
Curts, K. M., 3 VM.....Kansas City., Mo.
Cusi, Francisco A., 4 ChE.....Mexico City, Mexico
Custer, George B., 2 LA.....Longview
Cutcher, H. E., Jr., 2 Sci.....Lockhart
Daffron, Phillip Logan, 4 AA.....Plano
Daggett, Walter Merrell, 4 Agr....Ft. Worth
DaHarb, Frank Ewing, 1 ChE.....Parsons, Kansas
Dahl, Max G., 3 GE.....Savanna, Illinois
Dahl, Tyrus V., 1 VM.....Pettus
Dahman, Lawrence Albert, 1 Agr..Dallas
Dail, Henry K., Jr., 1 Agr.....Melvin
Dalby, Robert Leonard, 3 LA....Texarkana
Dale, Charles Reid, 1 PetE.....Hull
Dale, John Talley, 1 PetE....Wichita Falls
Dallas, Jean Edmund, 1 AA.....Houston
Dallas, William W., 2 PetE.....Houston
Daniel, Eugene Rudolph, 1 Agr.....Wylie
Daniel, Palo Robert, 1 LA.....Mexia
Daniel, Theo Smith, III, 2 Agr.....Kernes
Danner, Frank Leonard, 1 Agr....Amarillo
Dansby, Durant Martelle, 4 LA.....Bryan
Dansby, Guy Martin, 3 AgEd.....Bryan
Darnell, James Nickless, 1 AgEd....Poolville
Darrow, Thomas Stephen, 2 AA.....Bryan
Dashoff, Abe Daniel, 2 VM.....Bryan
Daughtrey, Jewel, 3 Agr.....Colorado
Davenport, Paul Quenton, 1 AgEd..Sherman
Davenport, Sam Perry, 1 ME.....Dallas
Davenport, Seth Rogers, 3 Agr.....Uvalde
Davidson, Duval Adams, Jr., 3 PetE.....Edinburg
Davidson, John King, 4 CE....Eagle Lake
Davidson, Roy Hayes, 1 Agr.....Clint
Davidson, Woodrow, 1 AgEng....McKinney
Davis, Bruce Arvel, 1 ChE.....South San Antonio
Davis, Berry Frederick, 1 EE.....Dallas
Davis, C. T., Jr., 3 AA.....Amarillo
Davis, Damon Allen, 4 CheE.....Fort Worth
Davis, David John, 1 LA.....Peurto Castilla, Honduras
Davis, Doyle Truitt, 3 ME.....Ennis
Davis, Everett, 3 ME.....Eastland
Davis, Eldridge Eugene, 1 EE....Port Arthur
Davis, Franklin Lee, 1 Sci.....Pendleton
Davis, G. R., 1 Agr.....Georgetown
Davis, Howard Alvis, 1 AA.....Houston
Davis, Jack, 4 Agr.....Waxahachie
Davis, Jim, 1 AA.....Dallas
Davis, James Burns, 2 Agr.....Mt. Pleasant
Davis, Jack Gray, 3 Agr.....Royse City
Davis, James Walter, 4 Agr.....Plainview
Davis, Orval Lee, 1 Agr.....Lamesa
Davis, Paul Clendenen, 3 EE.....Dallas
Davis, Richard Harvey, 1 VM.....Puerto Castilla, Honduras
Davis, Thomas E. Bridwell, 3 AA.....Huntsville
Davis, Thomas Hale, 4 ChE.....Ennis
Davis, William Edward, 1 LA....Galveston
Davis, Will Howsley, 2 AgEd..Throckmorton
Davis, William Leigh, 2 ChE....Fort Worth
Davis, William Russell, 2 GE....San Antonio
Davisson, W. C., 2 Agr....Carrizo Springs
Dawson, Aryles Howard, 4 Agr.....Tulia
Day, Ben Ro, 3 AgEng.....Plainview
Day, Glenn Leonard, 1 PetE.....Kilgore
Day, James Earl, 2 EE.....Dalhart
Deal, James C., Jr., 2 ME....San Angelo
Deam, Andrew Prather, 2 EE.....Dallas
Dean, Captain, 1 AgEd.....Wingate
Dean, Jesse Jackson, 2 ME.....Houston
Dean, James Marion, 1 Sci.....Fort Worth
Dean, William Valentine, 4 ChE....San Saba
DeArmond, Graves Leverett, 4 LA.....McKinney
Deavenport, John Leslie, 2 ChE....Stanton
Deberry, Seab Gaines, 1 Agr.....Austin
Deblanc, Lawrence Hubert, 2 Agr.....Lawrence, Louisiana
Decker, Howard Grant, 1 Arch....Greenville
Decker, Maurice Burnett, 1 AA.....Vernon
Decker, William Franklin, 1 GE.....Shreveport, Louisiana
Dedman, George R., 4 ME.....Houston
Dees, Billy G., 2 PetE.....Kaufman
DeGarmo, Edward Ball, 1 TE....Cleburne
de la Torre, Jose Antonio, 2 ChE.....Mexico City, Mexico
De Lay, Roy Earle, 4 ChE.....Dallas
DeLong, David E., 2 Agr.....Eldorado
DeLong, Paul Richard, 1 CE.....Woodson
DeLucia, Kenneth Joseph, 1 Pre-Vet.....New York, New York
DeMaret, Jack Skains, 2 Sci.....Franklin
Dempwolf, Edward Newton, 3 ChE.....Cleburne
Denham, Wilburn H., 1 AgEd....Georgetown
Dennis, Franklin Honeycutt, 3 Agr.....Cleburne
Denny, Otway Broad, 2 PetE.....Shreveport, Louisiana
Denny, William Francis, 1 CM.....Shreveport, Louisiana
Dent, James J., Jr., 3 LA.....Kerrville
Denton, Velpeau Curlee, 1 IE.....Pahokee, Florida
Deodati, Joseph B., 2 ME.....San Antonio
Derryberry, George A., 4 Agr.....Bryan
Dershimer, John Edward, 3 CE.....San Antonio
Deshotels, Jesse Douglas, Jr., 1 PetE..Gulf
Devine, Jean F., 3 PetE.....Pharr
Devine, Pat Sarasfield, 1 CM.....Pharr
Devine, Robert Prentiss, 2 ChE.....Pharr
Devlin, Joseph Parks, 2 AA.....Deport
DeWaal, Roland Constant, 2 ME....Houston
DeWare, Charles Allen, Jr., 2 LA..Brenham
DeWees, Russell Joseph, 2 LA.....Dallas
Dewey, Brownrigg Hefferron, Jr., 3 AA.....Bryan
Dexter, John Forsytte, 1 ChE.....Dallas
Diaz, Garay Martin Ruben, 1 ChE.....Mexico City, Mexico
Dibrell, Charles F., 3 LA.....San Antonio
Dickie, Joe Alex, 4 Agr.....Woodson
Dickinson, James E., 4 Agr.....Gonzales
Dickson, Ray Esther, Jr., 2 Agr.....Spur
Dickson, Robert Earl, 2 AA.....Mart
Dickson, Robert M., 2 AA.....Lexington
Dieb, John Mitchell, 3 ChE.....Fort Worth
Dietz, Jesse C., 2 ME.....Dallas
Dillon, Ben Ellis, 1 AA.....Lampasas
Dillon, Olan William, 1 Sci....San Antonio
Dillon, Paul Cox, 1 AgEng....San Antonio
Dillon, William Sheriden, 4 CE....Longview
Dinsmore, James, 1 EE.....Greenville
Dinwiddie, William Deibert, 1 Agr..Barstow
Ditman, Robert Otto, 1 Agr.....Doss

Dittman, Henry, 2 LA.....Goose Creek
Dittmar, Martin M., 2 ChE....San Antonio
Dixon, General Franklin, 1 LA.....
.....Blue Ridge
Dixon, Jack Harold, 1 ChE.....Lewisville
Dixon, John Mitchell, 1 AA.....Lewisville
Dixon, Levi Lockett, 2 Agr....Corpus Christi
Doak, Ira Kennedy, 1 ME.....Galveston
Dobyns, Rollie Paul, 2 PetE.....Stamford
Dodd, Carlos Lester, 1 ME.....Redwater
Dodge, John Henry, 4 ME....College Station
Dodson, Beldum, 1 PetE..... ....San Saba
Dodson, Frederick Wilkins, 3 Sci....Amarillo
Dodson, John Lester, Jr., 1 ME....Del Rio
Doerr, Herbert Lee Funston, 1 AA.....
.....Carmine
Doggett, Ennard Gordon, 2 Agr.....Joshua
Dolberry, Lee Albert, 1 PetE.....Eastland
Dominy, C. B., Jr., 1 ME....Pennington
Donahue, Don Paul, 3 ME.....Vernon
Donaldson, Eldon Dial, 1 ME.....Bonham
Donalson, James Lee, 1 Agr....Prairie Lea
Donelson, Henry, 3 VM.....Stanton
Donley, Gerald A., 1 LA.....Beeville
Donnelly, Charles Guyon, 1 LA.....
.....Cedar Bayou
Dooley, Will D., Jr., 2 AgEd.....Iola
Dopslauf, Donald Louis, 1 AgEng.....
.....Fairbanks
Doran, Joe Bernard, 1 ME.....Waco
Doran, Jack Kennedy, 1 CE....San Angelo
Dorman, Herschel Dodd, 2 VM.....Orange
Dorsett, Theodore Monroe, 2 ME..Galveston
Dougherty, Charles Francis, Jr., 3 ChE....
.....Kilgore
Douglass, Frank J., 1 Pre-Vet.....
.....New Orleans, Louisiana
Douglass, Joseph Earl, Jr., 3 AA.....
.....Gainesville
Dowling, Alfred Pete, 4 LA.....Houston
Downer, William Webster, 1 PetE.....
.....Shreveport, Louisiana
Downs, James Cade, 1 LA....San Augustine
Downs, John Wesley, 1 CE.....Waco
Doyal, John William, 1 AgEd.....
.....Grand Prairie
Doyle, Clarence Ray., 2 CE....Wichita Falls
Doyle, James Joe, 2 ChE.....Houston
Doyle, William Vincent, 4 EE.....Slidell
Drake, Ezra Wilbur, 3 PetE.....Liberty
Drake, Richard Odom, 2 Agr....San Angelo
Drane, Merritt Arthur, Jr., 1 EE..Corsicana
Draper, Charles M., 2 AA.....Commerce
Draper, Jessie Cleveland, 1 AgEd.....
.....Queen City
Dreiss, Edward, 1 PetE.....San Antonio
Dreiss, Paul M., Jr., 1 ChE....San Antonio
Drennan, Lynn William, 1 PetE.....
.....Benton, Arkansas
Drennan, Weldon Bailey, 2 LA....Cleburne
Drew, Jack Handley, 2 Sci.....Livingston
Drinkard, John Ed., 3 AA.....Mart
Drollinger, Clarence Orville, 2 AA....Dallas
Droloskey, Edward Anthony A., 1 Pre-Vet.
.....Queens Village, N. Y.
Drow, Donald Lee, 2 ME.....San Antonio
Dube, Arnold Louis, 1 LA.....La Pryor
DuBose, Robert Trafton, 1 Pre-Vet..Dallas
Dubuisson, Emile Bernard, 2 Agr....Vidor
Duck, Ira Bragg, Jr., 3 Agr.....Abilene
Duckworth, William Harrill, 2 LA.....
.....Caldwell
Dudley, Alden Clarence, 3 ME.....Dallas
Dudley, Carl Clinton, Jr., 1 LA....Houston
Dudley, Rex, 1 Pre-Vet.....Daingerfield
Duesenberg, Denny Donald, 2 ME....Bryan
Duhon, Carl Howard, 1 ME.....Victoria
Duhon, Lamar M., Jr., 3 PetE....Victoria
Duke, Burnie G., 3 AA.....Forney
Duke, Earl Taylor, 4 Agr.....Claude
Duke, Frank Robert, 2 AA.....Livingston
Duke, Thomas Edny, 1 AgEd.....Livingston
Duke, Hubert Tom, 3 Agr.....Claude
Dulaney, Fred A., Jr., 4 LA.....Carthage
Dullnig, Adolph Cleveland, Jr., 3 GE.....
.....San Antonio
Dunagan, David Lenoir, 1 Agr.....Paris
Dunagan, Francis Marion, 1 EE.....Paris
Dunahoe, Willis James, 1 PetE.....
.....Galena Park
Duncan, Ashley Kelley, 3 PetE....Gonzales
Duncan, Glenn Emile, 1 ME.....Houston
Duncan, Harry Nurman, 3 LA.....Frisco
Duncan, Harold Vane, 2 LA.....Kingsville
Duncan, John Frank, 1 ChE.....Houston
Duncan, John Henry, 1 AA.....Lindale
Duncan, Mack Hayes, 1 EE.....Houston
Duncan, Robert, 1 LA.....Henderson
Duncan, William Max, 1 LA.....Henrietta
Duncan, Wayne Oral, 3 Agr.....Troup
Dunlap, Robert Wallace, 1 Agr.....Millican
Dunlap, Samuel Milton, 1 Agr.....Millican
Dunn, Jesse Eugene, 1 PetE....Harlingen
Dunn, William M., 1 AA.....Luling
Dunnam, Joseph Arthur, Jr., 2 AA.....
.....Alden Bridge, Louisiana
Dunnet, Donald Charles, 1 Pre-Vet.....
.....Rockville, New York
Dunwoody, Brant Cullen, 3 PetE....Tyler
DuPont, George Elbert, 1 ME.....
.....New Iberia, Louisiana
Dupre, Albide Joseph, 1 CE....Eagle Pass
DuPuy, James Albert, 4 Agr.....
.....Tennessee Colony
Durham, Orville Oliver, 1 EE.....Simms
Durrett, Edward Gather, 1 Sci.....Waco
Dwire, Vernon Joseph, 1 ChE....Fort Worth
Dwyer, Charles Festes, Jr., 1 PetE.....
.....San Antonio
Dwyer, Sam Joe, 1 PetE.....El Paso
Dwyer, William Henry, Jr., 1 ME.....Dallas
Dye, Roy Lee, Jr., 2 Agr.....Claude
Dyer, Joe Parks, 1 ME.....Bryan
Dyke, Harold Howard, 1 EE....San Antonio
Eads, Edwin M., 4 Arch.....Fort Worth
Eads, Richard Bailey, 2 LA.....Houston
Earley, Douglas Charles, 1 Agr..Brownsville
Early, Robert Gould, 4 LA.....Waco
Easley, Gregg P., Jr., 2 AA.....Caldwell
Eastham, Henry Clay, 1 LA.....El Paso
Eastham, John Moise, 2 LA.....Beaumont
Easton, Donald Ralph, 1 ME.....
.....Alexandria, Louisiana
Eaton, David Franklin, Jr., 2 Agr..Decatur
Eaves, Charles Curry, 1 Sci.....Lubbock
Echegaray, Julio Augustin, 1 Pre-Vet.....
.....Lares, Puerto Rico
Echols, Walter Harlan, 3 PetE....San Angelo
Echols, Woodrow, 4 Agr.....Dallas
Eckert, Richard Phil, 2 ME.....Mason
Ector, Walter H., 4 ChE.....New Boston
Edens, Lawrence Larry, 1 AA....Beckville
Edge, Alfred A., 2 LA.....Bryan
Edge, Clarence Lamonte, 1 LA.....Bryan
Edge, Gordon, 1 AgEd.....Bryan
Edge, John Evans, 1 Sci.....Bryan
Edge, Milton Caryl, 4 Sci.....Bryan
Edge, Richard Dealose, 1 Pre-Vet.....
.....Lancaster, Wisconsin
Edmonds, John Robert, 4 EE.....Dallas
Edmonds, James William, 1 PetE....Dallas
Edmonds, W. S., 2 AA....College Station
Edmondson, Thomas Leonard, 3 AgEd.....
.....San Saba
Edwards, LeRoy William, 2 Agr....Weslaco
Edwards, Stacy W., 1 CE.....Miles
Eeds, C. D., 2 PetE.....Lockhart
Egger, Samuel Levi, 4 EE.....Vernon

Ehrke, Robert Howard, 2 ChE..Brownwood
Eignus, William Trumbo, 1 PetE..Angleton
Eiland, James Donald, 1 AgEd..Wellington
Elberson, Thomas Wallace, 2 ME.....Lafayette, Louisiana
Elder, Donald Everett, 3 Agr.....Dayton
Elder, Gerald Parker, 2 ME.....Greenville
Eldridge, Lawrence Miller, 3 PetE.....New Gulf
Elliott, Fred Ben, Jr., 1 ME.....Vernon
Elliott, Paul Eugene, 1 PetE.....Palestine
Elliott, Rawleigh S., 3 Agr.....Kress
Ellis, Gus A., 4 AA.....Bryan
Ellis, John Marion, 2 Sci.....Mt. Pleasant
Ellison, Charlie Jessie, 2 Agr.....Van
Ellzey, John Green, 1 AgEd.....Cuero
Elmore, Robert E., 2 EE.....Fort Worth
Elrod, Henry Exall, 1 Arch.....Houston
Elrod, Roy Holland, 1 Sci.....Muleshoe
Elston, Joe Harrell, 2 LA.....Elm Grove, Louisiana
Elston, Joseph Walker, 1 LA.....Shreveport, Louisiana
Elwell, C. D., 1 Sci.....San Angelo
Elwell, Richard Clark, 2 AA....San Angelo
Emery, Duncan Macnab, 3 ME.....College Station
Emmons, Clyde Holt, 1 AgEng....Plainview
Enge, Clifford Oray, 2 VM.....Bryan
Enge, Percy Clifford, 2 VM.....Bryan
Ensey, George Webster, 1 AA.....Mineral Wells
Epperson, James Everett, 1 Agr.....Rocksprings
Erck, Allen William, 1 LA....San Marcos
Eriksen, Merrill Kiellin, 3 EE.....Houston
Erisman, Robert Elmore, 4 VM.....Bryan
Erwin, Hugh Milton, 2 TE.....Dallas
Estrada, Ramon Conrado, 2 AA.....Laredo
Eubank, Gordon Robert, 2 AA.....Whitney
Evans, Andrew J., Jr., 3 PetE.....Wichita Falls
Evans, Francis Lanham, 2 Sci.....Seymour
Evans, Harold T., 2 VM.....Dallas
Evans, Jess Eldridge, 3 AgEd.....Neches
Evans, Joe Ellery, 2 AA.....Neches
Evans, Jesse Weldon, 3 ChE.....Handley
Evans, Joe Walter, 1 AgEng.....Donna
Evans, John Whitley, 1 EE.....Commerce
Evans, John Willis, 3 VM.....Bryan
Evans, Lynn A., 5 Arch.....Houston
Evans, Paul C., 4 PetE.....Fort Worth
Evans, Robley David, 1 Agr.....Seymour
Evans, Travis Noble, 1 ME.....Teague
Evans, William Rual, 2 AgEng.....College Station
Evers, Ernest Joseph, 1 EE....San Antonio
Evridge, Rufus Ben, 1 LA.....Comanche
Ewing, Hunter Hal, 2 ChE.....Mission
Ewing, Henry P., 1 ArchEng.....Corpus Christi
Ewing, John Donald, 2 AA.....McAllen
Ewing, Ned Philip, 1 PetE.....McAllen
Ezell, Bert Phillips, 1 Agr.....Holland
Fagan, Frank Marion, 1 ME.....Grand Prairie
Fahring, Thomas Lloyd, 4 Sci.....Anahuac
Fail, Welton Ruel, 4 AgEd.....Marquez
Fajardo, Ermelindo, 1 ArchEng.....Santoree, Puerto Rico
Fallwell, John, Jr., 1 ChE.....Dallas
Fambrough, Truman Elmer, 3 Agr.....Breckenridge
Fannin, Casey C., 3 PetE.....Madisonville
Farguhar, James Thomas, 3 CE....Jonesboro
Farguhar, Neeley B., 3 CE.....Ennis
Farmer, Billy Walter, 1 PetE..San Antonio
Fasken, Robert Andrew Murray, 3 LA.....Midland
Faubion, Jerry Tolbert, 2 ChE.....Freeport
Faubus, Alfred Overton, 1 AA .....Waco
Faust, Herbert Reed, 1 Pre-Vet.....Comfort
Featherston, Baxter, 1 PetE.....Novice
Fein, Ralph Leo, 2 CE.....Honey Grove
Felts, Wallace Martin, 2 PetE....Fort Worth
Fender, Ernest Leonard, 1 Pre-Vet.....Harlingen
Fenner, John Sherrod, 1 CE.....Beeville
Ferguson, Charles Douglas, 1 ME.....Beaumont
Ferguson, Chauncey Dwight, 1 EE.....Leesville, Louisiana
Ferguson, John Gilbert, 4 EE.....Leesville, Louisiana
Ferguson, Marvin H., 2 Agr.....Buda
Fernandez, Roberto S., 4 ChE.....Monterrey, Mexico
Fertitta, Sam Joseph, Jr., 1 Sci....Beaumont
Ffrench, Lawrence A., 2 ChE.....Tampico, Mexico
Fickessen, Jack Walton, 2 CE.....Waco
Fields, Franklyn Thomas, 3 AA....Gonzales
Fike, Travis Lawrence, 2 AA.....Mart
Finch, Roy Dale, 1 Agr.....Edgewood
Fink, Carl, 3 VM.....College Station
Finkelstein, Leon 2 IE.....Houston
Finlay, Robert Jordan, 3 AgEng.....Fife
Finley, Dee Solon, Jr., 1 AA....Fort Worth
Finley, John Browning, 1 ChE.....Crowley, Louisiana
Finley, James Herbert, 3 AA.....Knox City
Finney, Reginald H., Jr., 2 AA.....Paris
Fischer, Walter Ernest, 3 EE.....Marlin
Fisher, Edwin E., 2 Sci.....Longview
Fisherman, Frank, 2 Pre-Vet....Big Spring
Fite, John Martin, 1 PetE....San Antonio
Fitz, Doyle James, 1 AgEng.....Marquez
Fitzhugh, Harold M., 3 AgEd.....Tolar
Fitzhugh, Parker Preston, 1 Agr.....Tolar
Fitzhugh, Thomas Champe, 2 LA.....Waco
Fix, Robert Eugene, 3 ChE.....Dallas
Flache, Truett Wilson, 2 AgEng.....Brownfield
Flacke, Henry John, 2 AA.....Houston
Flanagan, Christopher John, 2 PetE.....Houston
Fleming, Tom Aubrey, 1 AA.....Lindale
Floore, John Wilson, 4 Arch.....Ft. Worth
Floyd, Junius Merman, 1 Sci.....Flatonia
Flynn, Cecil F., 2 Agr.....Chillicothe
Foerster, Alfred J., 2 ChE.....Paige
Folk, Bob Gates, Jr., 1 ME.....El Paso
Fonville, Charles Albert, 1 Sci....Gainesville
Foote, Daniel Avery, 2 AA....San Antonio
Forbes, Harry Council, 1 Agr..Waxahachie
Ford, James Allen, 1 ChE....San Antonio
Ford, Joseph Avril, 4 LA.....Longview
Ford, John Taylor, 1 ME.....Crockett
Ford, Seth Maurice, 3 AgEd.....Santa Anna
Forehand, Clyde Ernest, 1 PetE.....Palmer
Forehand, Tommie Lee, 2 PetE....Houston
Forester, Oscar Franklin, 3 PetE.....Smithville
Forman, C. W., 4 ChE.....Plano
Formby, Donald Exton, 1 AA.....Italy
Forrest, Caswell Underwood, 4 CE....Dallas
Forrester, Vernon Archie, 1 Arch.....Fort Worth
Forsyth, Valoris Lawrence, 4 PetE.....Fort Worth
Fortenberrry, Guy, 2 Agr.....Greenwood
Fortenberry, Henry Harper, 2 VM.....Greenwood
Fortson, Tom Elliott, 1 Sci....Wichita Falls

Foster, Charles Bradford, 3 CE.....College Station
Foster, Elred L., 3 Agr.....Heidenheimer
Foster, G. A., 4 ChE.....Bryan
Foster, Newton Headrick, 1 Agr....Stratford
Foster, Robert Henry, 1 AgEng....Calvert
Foster, Thomas Grady, 2 Agr....Pecan Gap
Foster, W. Carroll, 1 Agr.....Tulia
Foster, William Lester, 1 Agr.....Sterling
Fouts, James Fremont, 1 ChE.....El Paso
Fowler, Allen Tatum, 2 PetE.....Ennis
Fowler, B. B., Jr., 1 AgEd.....Rockwood
Fowler, Henry Florey, 1 PetE..Mt. Pleasant
Fox, James Calvin, 4 Agr.....Bangs
Fox, Marshall D., 3 AgEd.....San Saba
Francis, Cecil M., 4 PetE.....Temple
Francis, James Harrison, 2 Agr....Houston
Francis, Thomas R., 1 AgEng.....Merkel
Franke, Theadore Kenneth, 2 AgEd.....El Campo
Franklin, Ted Eugene, 2 VM.....Amarillo
Franklin, Thomas Earl, 2 AgEd....Decatur
Franks, Robert Dean, 3 VM.....College Station
Frazier, Burton Randolph, 3 EE.....Dallas
Freasier, Buck Waymen, 1 AgEd.....George West
Frederick, Daniel Cecil, 4 VM....Jacksonville
Freeborn, Elmer Irving, 1 ArchEng.....San Antonio
Freeman, Lawrence, 2 Agr.....Temple
Freeman, Lloyd Atmer, 3 AgEng....Trinity
Freeman, William B., 2 ChE.....Telephone
Freeman, William Clyde, 1 AA.....Bryan
Freiberger, Louis Dale, 2 LA.....Point
French, Edwin Charle, 2 Arch.....El Paso
French, Guy Douglas, 1 LA.....Waco
French, William Allen, 4 PetE.....Abilene
Freund, Chester Lambert, 1 Agr....Austin
Fridkin, Frank Edwin, 3 AA.....Tyler
Friedline, John Walters, 2 ME.....Grand Saline
Friedline, Stanley, 1 ME.....Grand Saline
Friedmann, Clarence John, 2 ChE.....Brownsville
Frisch, Lawrence Frank, 1 EE.....San Antonio
Fritsch, Curtis Paul, 3 ChE....San Antonio
Fritts, John William, 1 ChE.....Beaumont
Frizzell, J. B., Jr., 1 PetE.....Athens
Fry, Jud Gordon, 2 Arch.....Fort Worth
Fry, Noel Christle, 2 Agr.....Dublin
Fryer, John Douglas, 2 Agr.....Fairfield
Fugate, Jack Lee, 1 PetE.....Houston
Fuller, Hurley Edward, 1 CE....San Antonio
Fullwood, Edward Fenton, 1 EE....Hereford
Fulton, George Wesley, 2 ME....Waxahachie
Funderburgh, John W., 2 AA.....McKinney
Furr, Ellis Edward, 4 Agr.....Olney
Fussell, Jesse Eugene, 1 EE.....San Augustine
Fussell, Wesley Carl, 1 CM....San Augustine
Gaddis, Luman Lynn, Jr., 2 EE.....Barger
Gaffney, J. B., Jr., 1 ME.....Freeport
Gage, Charles Vinton, 3 AgEd....Sherman
Gaida, Edwin W., 2 AgEng.....Yorktown
Gainer, Benjamin Frank, 1 AA....Menard
Gaither, Thomas Howard, 3 AgEd.....Pendleton
Gaither, William Augustus, 3 ChE....Dallas
Gallaway, Frank David, 2 CE.....Waco
Gallimore, James Durward, 2 Agr....Alice
Gamard, Edward Wilbet, 2 ME.....San Antonio
Garcia, Gilberto M., 2 PetE....San Antonio
Garcia, Hector M., 1 ChE.....Brownsville
Gardner, John Riley, 1 Agr.....Junction
Gardner, Thomas Edward, Jr., 2 Agr.....Dallas
Gardner, William H., 4 Agr.....Carrizo Springs
Garner, Edwin C., 3 AA.....Vernon
Garner, Jack Wolfe, 1 PetE.....Houston
Garney, Clifford Patrick, 1 PetE.....Waco
Garrett, Edward Guy, 1 AA.....Marlin
Garrett, Leonard Edwin, 2 ME....Pittsburg
Garrett, Roy Curtis, 3 AgEng.....Bryan
Garrett, Samuel Eugene, 1 Agr.....Kerens
Garrett, Thomas Arthur, 1 AgEng.....Richland Springs
Garrison, Clarence Edward, 1 Agr.....Channing
Garrison, Otis Leroy, 2 Agr.....Spur
Garrison, Roger William, 1 Agr.....Spur
Garvey, Noble, Jr., 1 AA.....Cleveland
Gary, Arthur Edward, 2 CM....San Marcos
Garza, Alfredo Marshall, Jr., 2 ME.....Eagle Pass
Gaskell, Roy Lee, Jr., 3 ChE.....Dallas
Gates, Jacob Mayer, 1 AgEd.....San Antonio
Gates, Leslie Charles, 3 AgEd...Pearsall
Gates, William Baylor, 1 LA.....La Pryor
Gattis, James Loyd, 1 AgEng....Pottsboro
Gavrisheff, Mike B., 1 GE....San Antonio
Gay, George Henry, Jr., 1 ME.....Houston
Gayden, John H., 4 Agr.....Groesbeck
Gayle, Lea Maxwell, 1 EE.....Houston
Gearhart, Ben Franklin, 3 VM.....Marfa
Gee, Howell Aminald, 1 AA.....Tennessee Colony
Geelan, Charles William, 1 IE.....Stowell
Gensberg, Frank, 4 Sci.....Big Spring
Gent, Chris Frank, 1 EE.....Moody
Gent, Owen F., 1 Agr.....Moody
Gentry, Frank Ross, 3 AgEng, Chillicothe
Gentry, William Elbert, 4 Agr.....Tyler
George, Edward Christian, 1 LA....Houston
Gerdes, Walter F., 3 EE.....Port Arthur
Gerhardt, Edgar L., 2 ChE....Wichita Falls
Gerlich, Rheinhardt William, 1 EE...West
Geyer, Glenn Eugene, 1 LA..College Station
Gholson, James F., 1 AA.....Del Rio
Gibbs, Asa Ben, 4 EE.....Beaumont
Gibbs, Donald W., 2 Agr.....Mabank
Gibbs, Leon Wilford, 2 Agr.....Fort Worth
Gibson, Fred Amos, 1 AgEd.....Golden
Gibson, James Benjamin, 1 Agr....Trinity
Gibson, John Owen, Jr., 1 GE.....San Antonio
Gibson, James Vernon, 2 EE.....Childress
Gibson, Radford Burns, 1 EE.....Jasper
Giesecke, Walter Kennedy, 2 LA....Angleton
Giesen, Bernard William, 4 EE.....New Braunfels
Gilbert, Ralph Walker, 1 GE.....Trinity
Gilbert, Sol Moses, 4 EE.....Fort Worth
Gilbreath, Lois, 1 AgEd.....Dublin
Gilbreth, Joe Clyde, 4 CE.....Sulphur Springs
Gilchrist, Frank U., 3 EE....Jacksonville
Gililland, Jack William, 2 VM.....Hereford
Gililland, Lonnie Alfred, 3 Agr....Saint Jo
Gill, William Roscoe, 2 Agr.....Ponta
Gillespie, Andrew Jackson, 2 Agr....Alleyton
Gillespie, Henry Troy, 2 Agr.....Coleman
Gillespie, James Edward, 1 Sci.....Taylor
Gillette, Roy William, Jr., 1 PetE.....Columbus
Gilmore, Horace D., 3 AgEd..Turnersville
Gilmore, Morris L., 1 AgEd.....Gatesville
Given, Sherman Bernard, 2 ME....El Paso
Glasgow, Robert B., 4 LA.....Abilene
Glass, Walter William, 3 Sci....Port Arthur
Glenn, James Clarence, 2 ChE....Fort Worth
Glover, Bill Woolsey, 1 EE.....Venus
Glover, Joe Marion, 4 Agr.....Baird

Goates, James Henry, Jr., 1 LA.....Mt. Pleasant
Godfrey, Curtis L., 1 AgEd.....Naples
Godfrey, J. W., 4 EE.....Sweetwater
Godsey, Wilbur R., 4 PetE.....Bryan
Goforth, Robert Gerald, 2 AA....San Marcos
Goforth, Thomas Hubert, 1 AgEd..Overton
Goforth, William Taylor, 2 AA..San Marcos
Gohlman, Harry David, Jr., 1 EE..Houston
Goldberg, Louis Cerf, 1 CE.....Waco
Goldman, Merlyn Clarence, 1 Agr....Victoria
Golman, Philip, 1 LA.....Dallas
Golston, Joe Rex, Jr., 1 AA.....Santa Anna
Gomez, Jose Silver, 2 ME.....Galveston
Gonzales, Rafael Perfecto, 1 EE.....Lares, Puerto Rico
Good, Elmo Boyce, 1 PetE.....Houston
Goodloe, Harry Franklin, 2 Agr.....Dallas
Goodrum, James Basil, 1 Agr....Colmesneil
Goodson, Herbert Neavitt, 1 AgEd.....Comanche
Goodson, Walter Cass, 1 PetE....Big Sandy
Goodstein, Alvin Levy, 2 EE.....Dallas
Goodwin, Ceaborn Harvey, 3 Agr.....Stephenville
Goolsby, Harold Moody, 1 LA....Jonesboro
Gorham, Harrison Drew, 1 ChE.....Cisco
Gorman, Bose, 4 Sci.....Fort Worth
Gorman, George Daniel, Jr., 2 ArchEng....Dallas
Gottlieb, Sidney Harold, 1 ChE....Corsicana
Gough, Hardin E., 3 VM....College Station
Gough, Roy Hampton, 4 AA.....Dublin
Gourley, Jack, 1 PetE.....Eastland
Gracey, Cleo Clair, 1 PetE.....Wickett
Graeser, Henry J., 3 CE.....Marshall
Graham, Daniel W., 2 AA.....Wills Point
Graham, Hugh, 3 Agr.....Thorndale
Graham, James Bruce, 2 Agr.....McLean
Graham, Luther L., 1 Pre-Vet.....Alice
Graham, Robert Morris, 1 ME.....Dallas
Graham, Terrell, 2 AA.....Megargel
Granger, Dick B., 2 EE.....Dallas
Grant, Donald, 3 AgEng....Savanna, Ill.
Grant, James Reagan, 1 PetE.....Houston
Grant, Ralph Gordon, 4 ME.....Houston
Grantham, John Richard, Jr., 2 ME.....McGregor
Grasso, Warren Alwin, 3 CE....San Antonio
Graves, Roy William, 2 Sci.....Houston
Gray, Jack Douglas, 1 Agr.....Rising Star
Gray, James Roland, 1 PetE.....Fairbanks
Gray, Joseph Thomas, 4 LA.....Eastland
Grayson, Jack Lee, 4 Sci.....Fort Worth
Greak, John Gaither, 3 AgEd.....Liberty
Green, Carl V., 3 EE.....College Station
Green, Dan Paul, 3 EE.....Wichita Falls
Green, James Harold, 1 AgEd.....Paxton
Green, James Madison, 1 PetE.....Pettus
Green, James Preston, 1 Agr.....Buda
Greenberg, Samuel Mendel, 4 ChE....Dallas
Greenhalgh, Robert Ayton, 2 ME..Greenville
Greening, Vincent E., 2 VM.....Long Beach, California
Greenwald, William James, 2 PetE.....Sugar Land
Greenway, James Henry, 4 AgEd..Alexander
Greenwell, Robert Edward, 2 LA..Woodlake
Greer, James Edward, 4 Sci.....Dallas
Gregg, Paul, 1 EE.....College Station
Gregory, Charles E., 3 AA.....Houston
Gregory, Luther Weston, 2 EE.....Silsbee
Gregory, Paul Raymond, 1 AgEng.....Cristobal, Panama Zone
Greif, Leo William, 2 EE.....Poth
Greif, Wilbur William, 1 ME.....Del Rio
Greig, Arch J., Jr., 2 PetE.....Houston
Griesenbeck, Clyde Alexander, 2 Arch.....Dallas
Griffin, Clayton Joseph, 1 PetE.....Pelly
Griffin, Charles Vernon, 2 Agr.....Weslaco
Griffin, Jack Alex, 3 EE.....Brenham
Griffin, James C., Jr., 3 ME.....Forney
Griffin, James Hilton, 3 ChE.....Elmo
Griffin, James R., 2 LA....Blooming Grove
Griffin, Robert J., 2 RE.....Garrison
Griffin, Vincent T., 1 Sci....Frankfort, Ind.
Griffin, William R., Jr., 4 AA.....Dallas
Griffith, Willie B., 4 Agr.....Abilene
Griggs, Elmo E., 2 Agr.....Jacksonville
Grimes, Thomas Boyce, 4 EE.....Dunn
Grimland, Charles J., 2 EE.....Waco
Grimmer, Richard A., Jr., 3 ME.....Dallas
Grissette, William Arnold, 1 PetE....Freer
Grist, Edgar A., 4 VM.....Austin
Grogan, Michael J., 1 ChE.....Dallas
Grohe, Frederick William, 2 VM.....Bayside, Long Island, N. Y.
Grosse, Billy Dick, 1 Arch.....Mason
Grote, James F., 1 Agr.....Mason
Groulx, Bob B., 1 CE.....Harlingen
Grove, Jack W., 2 ChE.....Waco
Grover, Lewis M., 1 LA.....Three Rivers
Gruy, Andrew M., 4 CE.....Victoria
Gruy, Henry Jones, 4 PetE.....Beeville
Guerra, Eliezar, 2 LA.....Falfurrias
Guerra, Joe B., 3 Agr....Carrizo Springs
Guilloud, Ernest J., Jr., 1 Agr.....Dalhart
Gump, James F., 2 PetE.....Dallas
Gunn, Edwin J., 3 Agr.....Daingerfield
Gunter, Arnold L., 1 EE.....Kirbyville
Gunther, John E., 1 ChE.....Houston
Guy, William Thomas, 1 EE.....Brady
Guzman, Jose L., 2 ChE....Monterrey, Mex.
Gwin, William A., 3 Agr.....Oenaville
Haas, John R., 4 ChE.....College Station
Haberle, David L., 1 AA.....Jacksonville
Hable, Paul R., 3 LA.....Corsicana
Hackbusch, Franklin M., 1 PetE.....San Antonio
Hackedorn, Bayard M., 2 PetE....Baytown
Hackett, Robert E., 1 EE.....Raymondville
Haden, Eugene W., 1 AA.....El Paso
Haden, Jimmie B., 1 ChE.....Fort Worth
Haegelin, Albert A., 4 LA.....Hondo
Haegelin, Joe A., 4 Agr.....Hondo
Hagan, Edward E., 2 ChE.....Dallas
Haggar, Charles, 2 VM....College Station
Hagler, R. Wilson, 1 AgEd.....Corsicana
Hagner, William Joe, Jr., 2 PetE....Houston
Hahn, Henry C., 2 Sci.....Brenham
Haile, Johnie Molt, 2 CE....Corpus Christi
Hair, David Walton, Jr., 2 AA.....Wall
Hakes, Edward L., 1 Sci.....San Antonio
Halbrook, Lloyd V., 4 AgEd.....De Leon
Hale, Edgar B., 4 Agr.....Tulia
Hall, Buford Calvin, 2 ChE.....Beaumont
Hall, Charles Patrick, 2 EE.....Dallas
Hall, Clyde, Jr., 1 CE.....Brady
Hall, Edwin Davis, Jr., 1 Arch.....Tyler
Hall, Harold L., 2 EE.....Dallas
Hall, James A., Jr., 4 PetE.....Houston
Hall, John W., Jr., 2 ME.....Bryan
Hall, Lyman H., 1 AgEng.....Amarillo
Hall, Miles Irvin, 2 AgEd....Hughes Springs
Hall, Robert C., 1 AA.....Electra
Hall, Thomas George, 1 ChE.....Montgomery, Alabama
Hall, Valton, 3 Agr.....Electra
Hall, Willie B., 2 Agr.....Lindale
Hallum, B. A., Jr., 1 Sci.....Brady
Halsell, Harry H., 2 PetE.....Lubbock
Haltom, George Harris, 2 ME....Grapeland
Haltom, Henry Earl, 1 PetE.....Crosbyton
Haltom, Thomas Harrison, Jr., 1 Sci..Bryan
Ham, Herbert Riley, 1 ME.....Van

Ham, Russell Woodrow, 1 PetE.....Dayton
Hamblin, James Maurice, 2 Sci.....Paris
Hambrick, James Howard, Jr., 1 ChE.....Houston
Hambrick, Lester N., 1 ME.....Dallas
Hamilton, Daniel J., 1 LA.....Franklin
Hamilton, Duane Wallace, 4 EE....Longview
Hamilton, Edward A., 2 Sci.....Jasper
Hamilton, Oliver Wendell, 3 EE.....Star
Hamlett, Ernest Holt, 1 ChE.....Pampa
Hamm, Jack Gordon, 2 CE.....Fort Worth
Hammack, Doyle Fletcher, 3 AgEng.....Lehman
Hammack, Merle Sansing, 4 AgEd.....Kennedale
Hamner, Bennett Barron, 3 CE.....Waco
Hamner, Charles Hugh, 1 AA.....La Feria
Hamner, Francis Merrick, 1 ChE.....Healdton, Okla.
Hamner, John Gilbert, 4 AgEng.....Waco
Hamorszky, Kalman Richard, 1 Pre-Vet....Habana, Cuba
Hampton, Glen G., Jr., 2 VM.....College Station
Hampton, Herbert Elwood, 4 Agr....Bryan
Hanby, John L., 1 AgEd.....Mesquite
Hancock, J. D., 1 CE.....Garland
Hander, Raymond T., 3 VM.....Belton
Hanes, Arden H., 1 Sci....Hughes Springs
Hanes, Paul Thomas, 2 AgEd.....Naples
Hankamer, Phil Carol, 1 EE....Sour Lake
Hanks, Billie N., 2 AA.....San Angelo
Hanna, George Thomas, 3 EE....Brownsville
Hanna, John, II, 1 Arch.....Bryan
Hanna, Parker Davie, Jr., 1 LA....Bryan
Hanover, Edward Howard, 1 ME....Wheelock
Hanover, Joe Grady, 1 CE.....Wheelock
Hanrahan, William Edward, 1 ME.....Okmulgee, Okla.
Hansen, Alton Arthur, 3 AA.....Fredericksburg
Hanson, Lawrence Dearth, 1 AA....El Paso
Hanway, James Padgett, Jr., 1 EE.....San Antonio
Harbison, Dale L., 1 AgEng.....Lusk
Hardegree, Howard Preston, 2 CE.....Ben Wheeler
Harden, Thaddeus E., 4 Arch.....Hamlin
Hardison, Tom A., 2 Arch.....Vernon
Hardway, Edward Victor, 1 PetE....Houston
Hardwicke, Clifford, 4 LA.....Sherman
Hardy, J. Richard, 4 CE.....San Antonio
Hardy, Robert Louis, 3 ChE....San Antonio
Hare, J. Malvin, 2 LA.....Caldwell
Hargrove, Beal David, 2 Agr.....Troy
Hargrove, Charlie Carey, 1 ChE.....San Antonio
Harlan, John Harold, 2 PetE....Beaumont
Harper, Garlon A., 3 Agr.....Gatesville
Harral, Philip Wilkerson, 1 EE.....San Antonio
Harris, Arthur Louis, 1 ChE....San Antonio
Harris, Alfred Russell, 1 ChE....Longview
Harris, Bomer Britton, 1 Agr....Harrold
Harris, Basil L., 1 Agr.....Dublin
Harris, George E., 2 Agr.....Brazoria
Harris, Glen H., 3 CE.....Beeville
Harris, Herbert R., 1 PetE.....Brenham
Harris, James D., Jr., 2 Sci.....Mineola
Harris, Joe Lesley, 2 CE.....Medina
Harris, James S., 4 AA.....Robstown
Harris, Lanier C., Jr., 3 EE..San Antonio
Harris, Ledyard G., 3 AA.....San Angelo
Harris, Paul A., 1 AgEd.....Royse City
Harris, Ruffner Laird, 1 PetE....Fort Worth
Harris, Samuel Ernest, 2 Agr..Georgetown
Harris, Tom David, 1 Pre-Vet.....Dallas
Harris, T. M., 1 CM.....Henderson
Harris, Van Alexander, 4 Agr.....Elgin
Harris, Virgil Byron, 3 PetE.....Mineola
Harris, William Walker, 4 ME.....San Antonio
Harrison, Austin George, 3 LA..Brookshire
Harrison, Duke Williams, 1 Agr..Greenville
Harrison, Guy Franklin, 1 GE.....Abilene
Harrison, Hilton Piper, 4 Arch....Longview
Harrison, James Holford, 1 CE....Panhandle
Harrison, John Hampton, III, 2 LA....Waco
Harrison, Luther Asbery, 1 LA.....Cisco
Harrison, Lawrence Carter, 4 Agr....Dallas
Harrison, Neil B., 3 AA.....Gilmer
Harrod, Johnny Calvin, 1 PetE....McAllen
Harry, Howard Elliott, 2 EE.....Shreveport, Louisiana
Hart, Harold, 3 AgEd.....Gilmer
Hart, James Ross, 1 Agr.....Bremond
Hartman, Frank William, Jr., 1 EE.....Bayside
Hartman, Robert Henry, 3 VM.....Cuero
Hartman, Wayne Louis, 2 LA.....Cuero
Hartung, Herbert William, 4 AA.....San Antonio
Harvey, John James, 1 EE....San Antonio
Harvey, Trammel W., 1 AA....Mt. Pleasant
Harvill, V. A., 1 ME.....Robstown
Harvin, Albert Kenneth, 1 EE.....Nacogdoches
Haseman, John Diederich, 3 PetE.....San Antonio
Hass, Arthur E., 4 CE.....Mission
Hass, Roland Rhineheart, 1 CE.....Mission
Hastings, William Lee, 1 Agr....Duncanville
Haswell, Aston Crandall, 2 PetE..Cedar Hill
Hatch, Frank Lemuel, 1 LA.....Welfare
Hatch, Reginald Joe, 4 Agr.....Yoakum
Hatch, Walter Edward, 1 AA.....Yoakum
Hatcher, Taylor Frost, 3 AgEd....Jefferson
Hatka, Otis Raymond, 1 LA.....Granger
Haug, Edwin Walter, 1 Agr.....Marlin
Haughton, Richard, 4 ME.....Dallas
Hawkins, De Leon, 4 CE.....Bryan
Hawkins, Edward B., 3 Agr.....Amarillo
Hawkins, Thomas Hudson, 4 VM..Ft. Worth
Hawks, Joe Willard, 1 AA.....Lancaster
Hawthorne, Earl C., 2 ME.....Houston
Hawthorne, Earl, Jr., 1 AA.....Mart
Hay, Thomas G., 2 AA.....San Antonio
Hayes, Burgin Garfield, Jr., 1 ME..Houston
Hayes, James Franklin, 1 ChE.....El Dorado, Arkansas
Hayes, Parker, Jr., 4 Agr.....Groesbeck
Hayhurst, Ross Bailey, 1 PetE.....Houston
Haynes, Frank Petty, 2 AA.....Granger
Hays, Joe Conrad, Jr., 2 EE.....Carthage
Hays, Thomas Moore, Jr., 2 PetE....Temple
Hays, Wimberly M., Jr., 1 PetE.....Dallas
Hayward, John George, 1 Pre-Vet.....Maplewood, N. J.
Hazelrigg, James Berry, 2 PetE.....San Antonio
Headlee, Frank Merrick, 2 LA.....Searcy, Arkansas
Healy, Edgar Griffin, 4 Agr.....Bryan
Heard, Corry W., 2 AgEd.....Naples
Heard, L. P., 4 Sci.....Belton
Hearne, Robert Luther, 1 ME.....Bryan
Heartfield, William L., 2 PetE....Beaumont
Heath, James Allen, 2 ChE.....Henderson
Heaton, Cyrus R., 4 Agr.....Henderson
Heaton, James W., Jr., 4 VM....Stephenville
Heflin, Allen Arlington, 2 Pre-Vet.....Gower, Missouri
Helbing, Arlington, Jr., 4 Agr..San Angelo
Heller, Charles Daniel, 2 EE..San Antonio
Heller, William Lewis, 1 PetE.....Alvin
Helpert, Raymond, 4 ChE.....Burlington

Helton, Edward Mills, 4 RE.....Waco
Henderson, Douglas, 1 IE.....Brandon
Henderson, Jack F., 2 AA.....Waelder
Henderson, John William, III, 1 Agr..Ozona
Henderson, J. Y., 3 VM.....Kerrville
Henderson, Robert A., 1 AgEd.....Eastland
Henderson, Samuel Whilden, Jr., 4 EE....
.....Houston
Hendricks, Jesse Elmer, 4 ChE.....Dallas
Hendricks, William Nash, 1 AA.....Melissa
Hendrix, Ernest Elmer, Jr., 2 ME....Dallas
Henggeler, Frank James, 2 EE.....
.....Brownsville
Henley, Charles P., Jr., 4 ChE....Fort Worth
Hennessee, Doyle Winston, 2 VM.....Dublin
Henry, Earl, 1 Agr.....Port Arthur
Henry, Marvin M., 3 CE.....Port Arthur
Henry, Sam S., 1 AA.....Rocksprings
Hensell, James Lewis, 1 Agr.....Granbury
Hensler, Homer, Jr., 2 VM....Arnboy, Ind.
Hensley, Charlie Jack, 2 ME....Port Arthur
Heppard, Glenn Roland, 2 ME.....
.....Port Arthur
Herder, Henry, 1 ChE.....Weimer
Hering, Woodrow H., 2 ME..New Braunfels
Hernandez, Robert, 2 ME.....San Antonio
Herren, Andrew J., Jr., 1 ME.....Houston
Herren, Clinton Howard, 1 Agr.....Rule
Herrin, Bury Yarbrough, 4 AA.....Tyler
Herring, Raymond Keith, 1 ME....Vernon
Herrington, John Athol, 2 ME..Waxahachie
Hertner, Henry Emil, 1 AA.....Amarillo
Herzik, Melvin C., 4 CE.....La Grange
Hewitt, Clarence B., 4 LA.....Groesbeck
Hewitt, James Neil, 3 AA.....Giddings
Hewson, John Elmer, 3 ChE....San Antonio
Hey, Joseph A., 4 LA.....College Station
Heye, Otto, 4 ME.....Galveston
Hickerson, Joseph C., 3 Agr.....Rosebud
Hickerson, Thomas Jeff, 2 Agr.....Rosebud
Hicks, Dick Walton, 3 Agr.....Bandera
Hicks, J. B., 4 Agr.....Stephenville
Hicks, Vernon Thornton, 1 GE....Beaumont
Hidell, William Henry, Jr., 1 Arch....Dallas
Higdon, Hoke, 1 La.....Pleasanton
Higginbotham, James P., 3 Agr....Mabank
Higginbotham, Raymond A., 3 AgEng.....
.....Chillicothe
Hilburn, Paul W., 2 Agr.....Dublin
Hill, Bryant Talmadge, 2 Agr....Corrigan
Hill, Carl, Jr., 1 AA.....Amarillo
Hill, Carl A., 4 AA.....Seagraves
Hill, Gordon Coleman, 2 ME.....Cleveland
Hill, Howard Blasingame, 2 PetE.....
.....Wichita Falls
Hill, James Edward, 3 VM.....Longview
Hill, Jack Vinson, 2 AgEd.....Bonham
Hill, Ralph Henry, 3 Agr.....McKinney
Hill, Ralph Kelly, 4 ChE.....Telferner
Hill, Sidney C., 1 ChE.....Fort Worth
Hillier, Charles Russell, 3 Sci.....Bryan
Hillin, Robert Neil, 1 LA.....Mt. Calm
Hilton, Charles Seburn, 2 ChE.....Sinton
Hiltpold, Herbert Woodrow, 1 PetE.....
.....Bay City
Hinds, Lonnie Woodrow, 1 Agr.....Coleman
Hinds, Raymond Woodrow, 1 Sci.....Tye
Hines, Aubrey E., 1 AgEd.....McCauley
Hinesley, Joseph Dock, 1 ME.....
.....Corpus Christi
Hingle, Arthur Thomas, 1 ChE.....
.....San Antonio
Hinshaw, Conrad S., 2 CE.....El Paso
Hirschfeld, Julius Vincent, 1 CE.....
.....Mexico City, Mexico
Hisatomi, Susumu, Spec Agr....Tokyo, Japan
Hitchcock, Howard G., 1 Agr.....Caldwell
Hitt, Ralph Raymond, 2 ChE....Weatherford
Hix, Jim Boyd, 1 Agr.....Gatesville
Hodde, Walter Louis, 2 Sci.....Brenham
Hodge, Dexter Lawrence, 1 Sci.....Pledger
Hodge, Fred Merrifield, 2 AA..Brownsville
Hodge, James Clarence, 2 ChE.....Athens
Hodges, Charles Beiford, 1 PetE....Houston
Hodges, Mack Bradford, 2 ME.....Yoakum
Hodges, Wyatt Wade, 3 Agr.....Dublin
Hoeffert, George John, 4 PetE.....Waco
Hoefgen, Charles S., 1 EE....San Antonio
Hoefle, Malcolm B., 1 ME.....Brazoria
Hoeflich, Carl William, Jr., 1 Sci....Houston
Hoefs, Carl Hugo, 2 PetE.....Saragosa
Hoerster, Samuel A., 2 Sci.....Art
Hoffer, Bates Lowry, Jr., 2 Sci....Midland
Hoffman, Herman John, 2 Agr....Somerset
Hoffman, Robert Congey, 1 Agr.....Lamesa
Hofman, William Robert, 1 Agr.....Mason
Hogan, A. J., 3 AA.....Waco
Hogan, Eddie Walsh, 3 AA.....Waco
Hogan, Marke E., 1 AA.....Waco
Hogue, Clifford E., 2 LA.....Denton
Holbert, Noble Goodman, Jr., 1 AA.....
.....Graham
Holcomb, David Young, 1 AA..Mt. Pleasant
Holden, Thomas George, 4 Agr....Bryan
Holderman, William Martin, 1 AgEng.....
.....Waco
Holick, Donald Howard, 1 CE.....Dallas
Holick, Gilbert C., 1 AA.....Bryan
Holland, Bryant R., Grad Chem..Midlothian
Holland, Herman Trusten, 2 IE.....
.....College Station
Holland, John William, 1 Agr.....Hearne
Holland, William Marion, 2 AA.....Abbott
Holle, Fred R., 2 Sci.....Brenham
Holleman, Theo Rufus, 1 Arch.....Sandia
Holliday, Dan Weepy, 2 Pre-Vet.....
.....Henryetta, Okla.
Holliman, Earl Jay, 1 EE....Port Arthur
Hollingsworth, James Francis, 2 Agr....
.....Sanger
Hollingsworth, James M., 4 AA.....Petty
Holloway, Jack Walter, 2 Arch....La Grange
Holmes, Billy Duncan, 1 PetE.....Bryan
Holmes, Harry Crowe, 1 ME.....
.....San Antonio
Holmes, J. Wiley, 4 Agr.....Ralls
Holmes, Ralph Conlon, 4 AA.....El Paso
Holmes, Robert West, 1 Agr.....Silsbee
Holmes, Walter Trezevant, Jr., 1 CE.....
.....Fort Worth
Holstein, Eugene E., 1 CE.....Dallas
Holsworth, Wilbur William, 1 PetE....Dallas
Holt, Beverley Baker, 1 ME.....Weimar
Holt, B. F., 2 ME.....Spearman
Homer, Harold Winn, 2 Agr....Gainesville
Hood, Cecil, 1 ME.....Sherman
Hooker, Harry Rudyard, 2 RE.....Carthage
Hooker, William Alan, 2 RE.....Carthage
Hooks, A. B., 3 PetE.....Livingston
Hooton, Thomas Byron, 2 AgEd.....
.....Daingerfield
Hopkins, Clarence Menefee, Jr., 1 LA.....
.....Weatherford
Hopkins, James Iredell, 1 PetE....Palestine
Hopmann, Urban C., 2 AgEd.....Beasley
Horak, Eugene Frank, 1 ME.....Needville
Horn, James Howard, 3 AgEd....Kirbyville
Horn, Jefferson Lee, 4 Agr.....Dallas
Horn, Wiley Henry, 4 VM.....Fort Worth
Horton, Charles Medlock, 1 EE.....
.....Alexandria, Louisiana
Horton, Jeff D., 1 AgEd.....Athens
House, James Frank, 3 AA.....Bridgeport
Houssiere, Jules Arthur, 1 PetE.....
.....Jennings, Louisiana

Hovell, Bergen Brokow, 3 ChE.....San Antonio
Hover, Glen Floyd, 2 VM.....Astoria, South Dakota
Hovorak, Ludwig M., 2 Agr.....Caldwell
Howard, Clifton Earl, 1 AA.....Waco
Howard, Fred George, 2 Agr.....Pearsall
Howard, H. G., Jr., 1 CE.....Pleasant
Howard, John Bennett, 1 LA.....Houston
Howard, Jess C., 4 ChE.....Center
Howard, Joe Noel, 2 LA.....San Antonio
Howard, John Parsons, 1 EE.....Lubbock
Howder, John William, 2 VM.....Presidio of S. F., Cal.
Howell, Horace James, Jr., 1 ME..Gonzales
Howle, Ben Scott, 1 ME.....Greenville
Hoyme, Kermit Helmer, 2 VM.....College Station
Hrdlicka, Edward Brandes, 2 AA....Bryan
Hubbard, William Edward, 3 LA.....Sweetwater
Hucker, Robert Edward, 3 Arch.....San Antonio
Huddle, R. S., 1 Agr.....Lamesa
Hudgins, Verneard Warner, 3 ME....Bryan
Hudson, Charles Howard, 2 PetE....Laredo
Hudson, Ernest Leonard, 2 AgEd....Dallas
Hudson, Oliver Greer, Jr., 3 ChE....Hearne
Hudspeth, Claude Bethany, 1 AA....Bryan
Huebel, John, Jr., 1 ChE.....Glidden
Huebner, Gilbert Ruben, 3 CE.....Brenham
Huffaker, John, 2 EE.....San Antonio
Huffhines, Grover Howard, 4 ME.....Richardson
Huffhines, Nolan Coy, 1 AgEd....Wellington
Huffman, Mahlon Boyd, 1 AA....Harlingen
Hughes, Charles Reynolds, 2 Arch.....Long Branch
Hughes, James Coy, 4 ME.....Palestine
Hughes, Lynn Burk, 2 VM.....Waskom
Hughes, Lloyd Wayne, 1 Pre-Vet....Colorado
Hughes, Robert Holloway, 4 Sci.....College Station
Hughes, Thomas Kleberg, 3 EE....Galveston
Hugins, James Donald, 1 Pre-Vet.....Douglas, Nebraska
Huit, William Washington, 1 AA.....Harlingen
Hulsey, Burl Benson, Jr., 2 EE.....Forney
Hulsey, Moss E., Jr., 2 AA.....Dallas
Hulsey, Wiley Dean, 2 AA.....Dallas
Humann, Augustine, 2 ChE.....Tempico, Mexico
Humann, Tom Augustine, 4 ME.....Tampico, Mexico
Humbert, Robert P., 3 ME....College Station
Humphries, Woodroe W., 2 Agr.....Mart
Hundley, James Jackson, 1 LA.....Dallas
Hunnicutt, William Robert, 1 Sci....Bryan
Hunt, Clifton Guy, 2 AA.....Mt. Pleasant
Hunt, Haskell Howard, 4 Agr.....Denison
Hunt, John Norton, 1 Pre-Vet..Mt. Pleasant
Hunt, Wheeler H., 3 AA.....Pearsall
Hunter, Akridge Charles, 2 VM.....Pleasanton
Hunter, Allen Daniel, 1 Pre-Vet.....St. Louis, Missouri
Hurd, Paul Jarvis, 2 ME.....Brady
Hurt, W. J., 1 ChE.....Waco
Huskey, Homer, 4 EE.....Carrollton
Hussey, Clyde Preston, 1 ME.....Hereford
Hutchins, Philip Millard, 2 EE.....Ysleta
Hyatt, Clifford Cornelius, 1 AA.....Carbon
Hyde, John Lee, 1 Agr.....Mabank
Hyman, Edward S., 2 Agr.....Rosebud
Igo, Harry Clinton, 2 AA.....Clarksville
Imler, Norman O., 2 Arch....College Station
Imperial, Mario Muniz, 1 ArchEng.....San Antonio
Ingram, Jimmie Gordon, 1 PetE.....Conroe
Ingram, Sammy Ted, 1 EE.....Vigo Park
Inman, Marvin Lewis, 1 Pre-Vet.....Coeur d' Alana, Idaho
Irvin, I. J., Jr., 1 AgEd.....Glen Flora
Irvin, Robert McNutt, 2 AgEd.....Wallis
Irvine, Houston Noel, 4 AgEng..Fort Worth
Irwin, Robert Samuel, 1 AgEd.....Kosse
Isenberg, Norman, 1 PetE.....Galveston
Itschner, Bernard Frederick, 2 Agr.....Elm Mott
Ivey, Robert Henry, 2 Arch....San Marcos
Ivie, Farris, 1 Agr.....Forrest
Jackson, Aubrey Lee, 1 CM..College Station
Jackson, Avery T., 1 AA.....Corsicana
Jackson, Berthold Zedler, 2 ChE.....Ottine
Jackson, D. Harold, 2 AA.....Midlothian
Jackson, Joe Beck, 3 Agr.....Bryan
Jackson, James Darold, 2 AA.....Harlingen
Jackson, John Raleigh, 3 AgEd.....Center
Jackson, Lewis Livingston, 2 VM.....Corsicana
Jackson, Roy Collier, 1 EE.....Houston
Jackson, Robert Eugene, 1 PetE....Houston
Jackson, Roger William, 3 PetE.....Jacksonville
Jacobs, Eugene Leo, 1 Pre-Vet.....Bryan
Jacobs, Lemmuel Lee, Jr., 2 Agr....Dallas
Jacoby, Pete William, 1 Agr.....Menard
Jacoby, Wesley Edmund, 2 Agr....Streeter
Jamail, Clarence Joseph, 2 AA.....Houston
James, Charles Oliver, 2 Sci.....Houston
James, Cecile Proctor, 2 LA.....Waco
James, James Webb, 1 AA.....Bryan
James, William W., 2 LA.....Dallas
Janensch, William Charles, 2 AA....Boerne
Jardell, Daniel Joe, 1 LA.....Vinton, La.
Jarmon, Jake Bryant, 1 PetE..San Antonio
Jarrard, Newton E., 4 AA.....Houston
Jarratt, Dennis Young, 3 AgEd.....Stephenville
Jauer, William E., 2 AA.....Karnes City
Jaynes, Jay, 3 ME.....Marshall
Jenkins, Ernest Munn, 2 LA....Hempstead
Jenkins, John Bill, Jr., 2 Agr....Waxahachie
Jenkins, James Orville, 1 Sci..Village Mills
Jenkins, James Wiley, 1 AA.....Dallas
Jenkins, Oliver Lee, 2 VM....College Station
Jennings, Charles Brian, 1 AgEd....Fredonia
Jennings, Horace Homer, 1 Sci.....Houston
Jennings, Henry Marvin, 1 Arch..Groesbeck
Jensen, Jack William, 1 PetE.....Hobby
Jenson, Jim G., 2 Agr.....Coolidge
Jeppersen, Richard James, 1 CM....Houston
Jeter, Mavis McGuire, 2 LA.....Sherman
Jett, Jamie D., 1 ME.....Liberty
Jobson, William Key, 1 LA.....San Marcos
Johansen, Johnnie Otto, 4 Agr....Hubbard
John, Paul, Jr., 2 ME.....San Antonio
Johns, Herbert Theodore, 2 Agr....Floresville
Johns, N. W., 2 Sci.....Boerne
Johnson, Bernard Grover, 4 EE....Houston
Johnson, Charles Edgar, 4 Agr....Seymour
Johnson, Charles Henry, 1 AgEd...Atlanta
Johnson, Carl John Bergwall, 2 GE.....La Marque
Johnson, Charles Morgan, 1 GE.....Paris
Johnson, Clint Gray, 3 VM.....Beaumont
Johnson, Charles Williford, 3 AA.....Port Neches
Johnson, Danforth Shan, 1 ArchEng.....San Antonio
Johnson, George Kenneth, 2 AA.....Ardmore, Oklahoma
Johnson, George Norris, 3 Sci.....Bryan

Johnson, Harry Bryan, 1 GE.....Dallas
Johnson, Harry P., 2 CE.....Paris
Johnson, Jesse Otto, 1 LA.....Kilgore
Johnson, Lem Eriel, 1 VM.....Sonora
Johnson, Louis Hanitch, 1 CE.....La Porte
Johnson, Morris Boyd, 1 Agr.....Floresville
Johnson, Robert Van, 1 ME.....Dallas
Johnson, Sammie Nathaniel, 1 AgEd.....Bonham
Johnson, Thomas Paxton, 3 Agr....El Paso
Johnson, William Samuel, 4 AA.....Bryan
Johnston, Archie Dudley, 1 PetE....Victoria
Johnston, Cecil A., 3 ChE.....Victoria
Johnston, John Epps, 1 EE.....Carrollton
Johnston, John Milton, 3 ChE.....Ardmore, Oklahoma
Johnston, Milton Edward, 1 GE....Midland
Jolley, James Clayton, 4 AA.....Dallas
Jones, Alexander Cochran, 1 ME.....Galveston
Jones, Bob Reiley, 2 VM.....Baton Rouge, La.
Jones, Carroll Euel, 2 Agr.....Olton
Jones, Charles Howard, Jr., 2 AA.....Livingston
Jones, Cassity John, 1 PetE....Long Branch
Jones, Claude Kelly, 1 VM.....Midland
Jones, Clyde Luther, 4 AA.....Huntington
Jones, Clayton Val, 2 Agr.....Blanco
Jones, Edward Corbin, 1 Pre-Vet.....Grand Saline
Jones, Elton Ewell, 1 Agr.....Rockwood
Jones, Enoch Gerald, 2 EE.....Fort Worth
Jones, Edward Henry, 1 ME.....Galveston
Jones, George Asa, 1 GE.....Alpine
Jones, George E., 2 PetE.....Iowa, Park
Jones, Herschel Voit, 3 AgEng.....Bryan
Jones, John Douglas, 1 Pre-Vet....Bryan
Jones, Jack Garner, 1 Agr.....Spur
Jones, James Marvin, 2 AgEd.....Crockett
Jones, Luther Joe, Jr., 1 Agr.....Spur
Jones, Lennis William, Jr., 1 AA.....Rule
Jones, Mortimer D., 1 ME.....Fort Worth
Jones, Morris S., 3 Agr.....Dublin
Jones, Marshall William, 1 AA....Sherman
Jones, Noble David, Jr., 3 CE.....Dallas
Jones, Olen James, 1 ChE.....Irving
Jones, O. K., Jr., 1 CE.....Abilene
Jones, Robert Albright, 1 AA.....Eddy
Jones, Robert Lee, 3 Agr.....Shreveport, La.
Jones, Tom Temple, 1 CE.....El Dorado, Ark.
Jones, Virgil B., 2 Agr.....Sweetwater
Jones, Virgil Lee, 1 ME.....Seagoville
Jones, Victor Thomas, Jr., 1 ME..Rosenberg
Jones, William Donald, 2 ChE.....Odessa
Jones, William D. C., 3 CM.....Taft
Jones, William Morris, 1 LA.....Vivian, Louisiana
Jones, Walter Telfair, 2 AgEng.....Austin
Jones, Wylie Keith, 1 Agr.....Valley View
Jordan, Forrest William, 2 Agr.....Marfa
Jordan, Gilbert Louis, 2 ME.....Junction
Jordan, Hugh Edgar, 1 Arch.....Navasota
Jordan, Richard, 1 VM.....Carthage
Jordan, Robert F., 1 AA.....Apple Springs
Jordan, Walker Reynolds, 4 Agr....Mason
Jorns, John William, 1 ChE.....Houston
Jorrie, Samuel Maurice, 1 LA.....San Antonio
Joseffy, Rafael, II, 4 Agr....San Antonio
Joseph, Alton C., Spec Educ....San Antonio
Joseph, Simon Sternberg, 1 ChE.....Blytheville, Arkansas
Joyce, Billy Jake, 1 AgEd.....Rising Star
Joyce, Murraye Duncan, 1 ME.....Grand Saline
Joyner, Leroy Edgar, Jr., 2 AgEd..Edgwood
Judson, Lewis Frederick, 1 PetE.....Tampico, Mexico
Judson, William Warren, 3 VM.....Tampico, Mexico
Juenger, Hugh Vincent, 2 PetE....Houston
Junghans, William Henry, Jr., 1 PetE....Waco
Jurcak, Louis, 1 Agr.....Burlington
Justice, Appleton Doyle, 3 Agr.....Post
Kaden, James Herman, 1 Agr....Gainesville
Kaden, Wilson Otto, 3 Agr.....Gainesville
Kahn, Frederick Milton, 2 ChE.....Dallas
Kalb, David, 1 CE....Mexico City, Mexico
Kale, Henry Woodrow, 1 AA....Royse City
Kana, John L., 1 CM.....College Station
Kaplan, Monte, 3 ChE.....Waco
Kaplan, Max Marvin, 1 AA.....Houston
Kaplowitz, Sidney, 2 VM..New York, N. Y.
Karcher, Albert Henry, 2 Agr.....Giddings
Karnes, Thomas E., 3 AgEng.....Dallas
Kauffman, Arthur Louis, 2 AgEd.....Georgetown
Kawahata, Henry Hajime, 1 CM....Hidalgo
Kay, Elwin M., 1 Agr.....Tyler
Kay, H. D., Jr., 4 AgEd.....Stephenville
Kay, Jack Wallace, 1 PetE.....Mt. Pleasant
Keath, Medford Earl, 3 AgEd..Los Angeles
Keck, Edward Thomas, 3 ME.....Dallas
Keeling, John Ben, 3 LA.....Long Branch
Keeling, Jack Rogers, Jr., 3 EE.....Ovalo
Keeton, Johnnie Frank, 3 LA....Fort Worth
Keever, Sam., 1 AA.....Ennis
Keim, Samuel Thomas, 3 LA.....Denton
Keith, Bruce Garth, 1 ME.....Borger
Keith, Jack, 1 AA.....Brenham
Keller, Alfred Emil, 2 ChE.....Bryan
Keller, Wallace Otto, 1 PetE....San Antonio
Kelley, Elbert Lloyd, 2 VM.....Utopia
Kelley, Jackson Clay, 4 AgEd....Beaumont
Kelley, Noel Leslie, 1 Agr.....Dallas
Kelley, Will Harrison, 4 Agr.....Houston
Kelling, Henry, 2 CM.....Crawford
Kelly, David Cleveland, 1 Sci.....Greenville
Kelly, Joseph, L., 2 AA.....Minden
Kelly, Lloyd W., 2 AgEng.....Wellington
Kelsey, Richard Oliver, 2 Agr.....Corpus Christi
Kendrick, Meredith B., 4 TE.....Amarillo
Kendrick, Roy Ballard, 1 ME.....Clyde
Keng, Edward Burette, 4 AgEd.....May
Kennedy, Daniel Clifford, 2 LA.....Crockett
Kennedy, James Peeler, 4 Agr.....El Paso
Kennedy, Leman Brown, 2 EE....Brownwood
Kennedy, Marshall Howard, 1 Agr.....Fort Worth
Kennedy, Tandy Richard, 4 AA..Groesbeck
Kennemer, Lewis Clint, 1 ME....Longview
Kennerly, Irl Ferdinand, 2 PetE....Houston
Kent, Jeptha Monroe, 4 EE..College Station
Kepple, Francis Edward, 1 PetE....Ft. Worth
Kercheville, John I., 3 LA....San Antonio
Kercheville, James Pleasant, 2 AgEd..Kyle
Kerr, Ernest L., 3 AgEng....San Antonio
Kerr, Gordon Emmett, 1 EE....San Antonio
Kerr, John Columbus, 2 ArchEng....Amarillo
Kershaw, George Clayton, 1 ChE....Dallas
Kessler, Ricardo, 3 ME....Monterrey, Mexico
Ketelsen, Raymond Paul, 1 LA.....Houston
Key, Cleo Hubert, 1 PetE.....Eastland
Kid, LeRoy Mack, 3 ChE.....Garland
Kiechle, Frederick, 3 ChE.....Ballinger
Kilgore, Thomas Gwinn, 2 CM....Kennard
Killen, Bennett Ross, 2 IE.....Woodsboro
Killough, David G., 2 EE....College Station
Kilpatrick, Con Del, 1 AA.....Bruceville
Kimbrough, Jack Cecil, 1 Agr.....Haskell
Kimbrough, Wallace Moran, 1 Agr....Haskell

Kincaid, Guy Hyman, 4AA.....Kerrville
Kincannon, John Alvin, 2 AA.....Wellborn
King, Bert, Jr., 1 LA.....Wichita Falls
King, Carroll, 3 CE.....Stephenville
King, Eph Forrest, 1 EE.....Marfa
King, James C., 2 PetE.....Ennis
King, Richard, 3 CE.....Bryan
Kinzer, Frederic Foster, 1 AgEd....Pampa
Kirby, John Tom, 3 VM....College Station
Kirby, Selmer M., 4 LA.....Kings Mill
Kirby, Wier, 2 Sci.....Hondo
Kirk, Paul A., 2 EE.....San Antonio
Kirk, William Thomas, 3 VM.....
.....College Station
Kirkpatrick, Charles Verne, 1 PetE.....
.....Houston
Kirsch, Gustave Reinhart, Jr., 1 ME.....
.....Houston
Kirven, Powers Elcurtiss, 1 ME....Amarillo
Kiser, Eugene Pickens, 4 AgEng....Kaufman
Kiser, Warren Clayton, 2 Arch....Kaufman
Kishi, Yoichi, 3 EE.....Beaumont
Kissinger, Guy H., 3 ArchEng..San Antonio
Kissman, Ernest Carl, 4 Agr.....Dime Box
Kitching, Jim Haydon, 2 Sci.....McKinney
Kitley, Donald Ralph, 3 CE.....Troup
Kizer, Curtis Alden, 1 Arch Eng.....Dallas
Klauber, Harry, 2 VM.....Bryan
Klein, James Ernest, 2 VM.....
.....College Station
Kleuser, Charles Wyne, 1 PetE.....Dallas
Klossner, Roy Othello, 3 ME....Edinburg
Kluender, Edward Carl, 1 EE.....Dallas
Klump, Virgil, 1 AA.....Bartlett
Knapp, Frederick Maedgen, 3 LA....Calvert
Knapp, Kenneth Kinch, 2 PetE.....Houston
Knapp, Robert Martin, 1 Sci.....Houston
Knetsar, Boyd C., 2 LA.....Houston
Knight, John C., 1 Agr.....Rotan
Knippa, Alfred John, 2 LA.....Knippa
Knowles, William Herbert, 2 LA..Beaumont
Knox, Eldon Morris, 1 Agr.....Dallas
Knox, Jack Caldwell, 3 AA.....Seymour
Knox, Ruble M., 1 AgEd.....Crockett
Kobayashi, Tokuye, 1 EE.....Webster
Koch, Alva Ernst, 2 CE....New Braunfels
Koch, Louis Miles, 2 Arch.....Austin
Koehler, Buford Ray, 4 PetE.....Daisetta
Koehler, Kenneth, 1 PetE.....Daisetta
Koenig, Charles Louis, 1 Agr.....Cuero
Koenig, Perier Arnold, 3 Agr.....Bryan
Koetter, Gunter, 1 Arch.....Houston
Kolodzey, Martin, 3 Arch.....Yorktown
Koontz, Jasper F., 3 Agr....Carrizo Springs
Kopit, Leo Sydney, 1 PetE..Providence, R. I.
Kothman, Victor L., 2 VM.....Mason
Kottoros, Christos Elios, Spec Agr.....
.....Athens, Greece
Krause, Berry Fritz, 3 PetE.....Beasley
Krause, Frederich Charles, Jr., 1 ME.....
.....San Antonio
Kreager, Karl Gilbert, 1 AA.....Sherman
Krebs, Arno William, 4 AA....Fayetteville
Krenek, Willie Andre, 1 LA.....Hungerford
Kreuz, Sam Sieker, 1 VM.....La Grange
Kroeger, Charles Delmal, 2 Agr.....Burnet
Krogstad, Stanley Foster, 1 ME.....
.....San Antonio
Kroll, Charles August, 1 ChE....La Grange
Kreuger, Augustine William, 1 Sci.....
.....Victoria
Krueger, Leo R., Jr., 2 GE....San Antonio
Kreuger, Mitchell Joseph, 1 Sci.....Victoria
Kuban, Joe Frank, 2 Sci.....Fort Worth
Kubin, Frank John, Jr., 1 AgEng....Bryan
Kuehne, Oscar August, 4 IE....San Antonio
Kuehne, Wilbur Alvin, 1 IE....San Antonio
Kuhn, Enid W., 1 EE.....Carmine
Kuhn, Frank Hill, 1 CE....Randolph Field
Kunkel, Lorenz Victor, 4 ChE.....Olney
Kuntz, Carroll Irwin, 1 Agr....Kinder, La.
Kunz, Walter John, Jr., 1 PetE....Houston
Kuykendall, M. W., 1 PetE.....San Saba
Kyle, Charley Roy, 1 Agr.....Madisonville
Kyle, Robert Lewis, 2 AA.....Carthage
Laas, Moylan Ernest, 4 AA.....Bellville
Lacey, Charles Douglas, 1 Sci....Centerville
Lackey, John Poitevent, 1 ME.....Rice
Lacy, James Meek, 2 ME....Saltillo, Mexico
Lacy, Lawrence C., 1 LA.....Waco
Lafleur, Charles Cephus, 2 GE.....Houston
LaGrone, J .C., 2 AA.....Comanche
Laird, Joseph Alex, 2 PetE.....Houston
Laird, Ollie Jack, 1 ME.....Galveston
Lake, Sim T., 3 ME.....Dallas
Lake, William Elias, Jr., 1 Arch....Marshall
Lamb, Thomas Curtis, Spec LA.....Bryan
Lambert, Floyd Aubrey, 3 EE.....Dallas
LaMotte, Clyde Wilson, 1 LA.....Abilene
Landers, Zolan Nelson, 1 Sci.....Bedias
Landon, Maxwell, 1 Sci.....Dallas
Landrum, George Stewart, 1 CE....Dallas
Landrum, Jessie Glenn, 2 RE.....Beaumont
Landua, Harvin Louis, 3 ChE.....Brenham
Lane, Fritz, 1 LA.....Cuero
Lane, Sam Winston, 1 Agr.....Cuero
Lane, Vincent Eugene, 1 CM.....Munday
Lane, Wesley Irvin, Jr., 1 ME....Eastland
Lanford, Don Lee, 3 Agr.....Blanket
Langdon, William Albert, 1 PetE..Hutchins
Langford, Don L., 1 EE.....Santo
Langford, Ernest Keith, 3 ME.....
.....College Station
Langridge, Clifford Richard, 4 AgEng.....
.....Commerce
Larimore, Luther C., 1 AA.....New Castle
Larner, Faron M., 3 AgEd.....Bluff Dale
Larsen, Leonard Cage, 2 PetE.....Dallas
Larson, John Herbert, 1 Sci.....Cleburne
Lassiter, Joseph Baker, 1 ME.....
.....El Dorado, Ark.
Latham, Bill Mason, 1 Agr.....Amarillo
Latham, Jess B., 1 PetE.....Amarillo
Lattimore, John Edward, Jr., 1 PetE..Frost
Lavoi, Sidney Anthony, 1 Sci.....
.....Lake Charles, La.
Law, Bonar Frederic, 1 PetE.....Alvin
Lawder, William Howard, 2 ME.....
.....Mobile, Alabama
Lawless, Lindsey Lee, 2 RE.....Bryan
Lawrence, Oscar Victor, 2 PetE.....
.....Brownsville
Lawson, Jennings Bryan, 1 PetE....Houston
Lawson, Melvin, 3 EE.....Cisco
Lawson, William Eugene, 2 Agr.....Gordon
Lay, Albert Franklin, 3 ChE.....Beaumont
Laycock, Raymond Wayne, 1 AgEd.....
.....McLean
Leach, Joe Henry, 1 Agr.....Allen
Leache, Armistead Bowyer, 1 PetE.....
.....Fort Worth
Leathers, Robert Barnett, 1 VM.....Blum
Lebr, Jerry, 1 PetE.....Romayer
Ledbetter, William Russell, 1 EE.....Waco
Ledger, Emmett Eugene, 1 PetE.....
.....San Antonio
Lednicky, Benjamin Joe, 4 Agr.....West
Lee, Jack Durham, 1 Sci.....Houston
Lee, John Gordon, 1 ME.....
.....Ronceverte, W. Va.
Lee, Knox, Jr., 2 ME.....Marshall
Lee, Louis Ed, 4 PetE.....Houston
Lee, Walter Marvin, 1 Pre-Vet....Fort Worth
Leftwich, John Ball, 1 PetE....Mt. Pleasant
LeGrand, William H., 2 PetE.....Bryan
Lehmberg, Walton Raymond, 1 Agr..Mason

Leigh, George Edward, 2 AA....Center Point
LeMay, Ernest Gilpin, 1 ME.....Austin
Lemburg, Ben Homer, 4 Agr.....Mason
Lemm, Paul John, Jr., 1 AA.....Brenham
Lentz, Zac, 4 AA.....Red Rock
Leonard, Tyree Bell, 1 CE.....Dallas
Lesh, Jack Benton, 2 AA.....Nacona
Lester, William E., 3 PetE....West Columbia
Levee, John Boatner, 1 EE.....
.....Alexandria, Louisiana
Leventhal, Sidney Jerome, 1 ChE.....Waco
Levine, Sam W., 3 ChE.....Corsicana
Levy, Abe, 2 VM.....Galveston
Lewis, Charles Franklin, 2 Agr.....
.....Blooming Grove
Lewis, Converse, R., Jr., 3 CE.....
.....College Station
Lewis, Elton, 1 AA.....Neches
Lewis, Henry Authur, 1 PetE....Fort Worth
Lewis, Howard Squire, 1 PetE.....Houston
Lewis, John Henry, Jr., 1 PetE.....Houston
Lewis, Robert Walker, 1 PetE.....Wink
Lewis, Tom McQueen, 1 ME.....Waco
Lewis, William Douglas, 1 PetE.....Wink
Lewis, William E., Jr., 2 IE.....
.....College Station
Liebhafsky, Herbert Hugo, 1 Sci....Shiner
Light, Beryl L., 4 EE.....Dallas
Ligon, Clayton, S., 1 Agr.....Llano
Liles, Kenneth W., 2 AA.....Throckmorton
Liles, Tom, Jr., 1 CE.....Groveton
Lilienstern, George L., 2 AA....Mt. Pleasant
Lilly, James Leroy, 3 LA.....Glen Rose
Lim, David Lund, 1 ChE....Canton, China
Lindley, Ries Raleigh, 2 VM.....Abilene
Lindsey, James, 2 AA.....Cotulla
Lindsey, Ralph Elmer, 1 Agr.....Kurten
Linebough, Joseph Thomas, 2 LA....Victoria
Link, John Bernard, 1 PetE....Fort Worth
Linn, Adolph, 2 Pre-Vet....Brooklyn, N. Y.
Lipe, Cyrus Cleon, Jr., 1 PetE.....Conroe
Lippard, John Albert, 1 CM.....Waco
Lippman, Louis Jules, 1 ChE....Rosenberg
Lipscomb, George Morgan, 1 EE.....
.....Port Arthur
Lipscomb, Samuel Webb, 1 AA.....
.....College Station
Lisman, Melvin Eulsis, 1 AgEd....Hempstead
Litteer, Dan Vilas, 2 AA.....Brenham
Little, Ira Claude, Jr., 2 PetE.....Dallas
Little, Raymon Griffie, 1 ME....Kirkland
Little, Wayne Lee, 3 Agr.....Elkhart
Littlejohn, Thomas M., 2 AA.....Tulia
Littlepage, Joseph Sydney, 2 ChE....Waco
Livingston, Rector Bill, 2 AA.....Amarillo
Livingston, Robert Morris, 1 CE.....Dallas
Lloyd, Bolivar Joseph, Jr., 2 Sci.....
.....Washington, D. C.
Lluy, Jorge Jose, 4 EE.....Guines, Cuba
Lobrecht, Gerald J., 1 Sci.....Fremont
Locke, Joe Thomas, Jr., 3 AgEd....Bryan
Locke, Kenneth Earl, 2 Agr....Gainesville
Loewenstein, George Hector, 1 AA.....
.....Chihuahua, Mexico
Lofton, John Thomas, 2 TE.....McKinney
Logan, Jefferson Davis, 2 AgEd.....
.....Georgetown
Logan, Robert, 1 Agr.....Georgetown
Logan, Ray Ellyson, 1 AgEd....Georgetown
Loggins, Larry Allen, 2 ME.....Teague
Logie, Abby Jones, 1 Pre-Vet.....
.....Chattahoochee, Fla.
Lomax, Everit Brinton, 1 AA.....Franklin
Lomax, Kenneth Hill, 2 AgEd....Franklin
Long, C. E., Jr., 4 Sci.....Roscoe
Long, Clabe Scott, 2 Agr....Archer City
Long, Elton Grady, 1 ME.....Roscoe
Long, James B., 1 PetE.....Rusk
Long, Malcolm, 3 CE.....McKinney
Long, Oscar Symms, 3 AA.....Greenville
Long, Roderick Jack, 1 AA.....Waco
Long, William Arlie, 1 LA....Monroe City
Long, Wayne E., Spec EE....College Station
Longoria, Alfredo, 2 ChE.....Laredo
Longoria, Edward, 4 AA.....Laredo
Longoria, George, 1 Sci.....Brownsville
Looney, Billy Albert, 3 Sci.....Dallas
Lopez, Carlos Manuel, 1 Agr.....
.....Aibonito, P .R.
Lopez, Jose Antonio, 1 ME..San Juan, P. R.
Lopez, Lawrence, 1 CE.....San Angelo
Lopez, Nester William, 1 ME.....
.....Washington, D. C.
Lopez, Olaguibett A., 1 VM.....
.....Hato-Ray, P. R.
Lorenz, John Peter, 3 EE.....Stockdale
Lorenz, Winston Wayne, 4 AA....Stockdale
Lorina, Charles Vernon, 1 PetE....Houston
Louderback, William Roosevelt, 1 ME.....
.....Wichita Falls
Love, Harold Woodrow, 1 Agr.....Temple
Love, Jim Perry, 4 ChE.....McKinney
Love, Thomas McAdoo, 2 ME.....
.....St. Louis, Missouri
Love, Tot Milburn, 4 Agr.....Mt. Home
Loveless, Sidney Louis, 3 Agr.....Coolidge
Loven, Cullen Isom, 2 CE.....Paris
Lovil, William Charles, 1 CE.....Carthage
Lovoi, Denny Joseph, 2 PetE.....Beaumont
Lowdon, James Graham, Jr., 3 AA....Dallas
Lowe, Ellis Joseph, 2 EE.....Jacksonville
Lowrence, Henry Archer, 2 ME.....Cuero
Lowrie, John Dudley, 2 PetE.....Terrell
Lowrie, Robert Gleenwood, 1 Agr....Terrell
Lowrie, W. D., Jr., 1 Agr.....Abilene
Lowry, Martie Gribble, 1 Agr.....Temple
Lowry, Paul Russell, 1 ChE.....Beaumont
Lozo, Robert Dodd, 2 VM.....Fort Worth
Lucas, George Faithon, 1 ChE.....Dallas
Lucas, Orville Waco, 1 Agr.....Quanah
Luce, Charles M., 2 CE....College Station
Lucey, Durward Conway, 3 EE....McKinney
Lucey, William Gerald, 4 AgEng....Cleburne
Luckenbach, Austin Albert, 2 ME.....
.....San Antonio
Ludecke, Edwin Gus, 1 CE.....Burlington
Ludeman, Robert William, 1 EE..Marysville
Ludwig, Raymond Nathan, 4 ChE.....
.....San Antonio
Luetcke, Carl J., Jr., 1 ME....San Antonio
Luke, Edwin Devere, 4 ME.....Pecos
Luker, Charles Thomas, 2 VM.....Proctor
Lummus, Lester Harper, 1 AgEd....Atlanta
Lundberg, Gosta Alexander, 2 ME....Dallas
Lusk, Aldridge Oliver, 1 ME.....Tomball
Lutz, Harry Hammon, 1 Pre-Vet.....
.....Baltimore, Maryland
Lyle, Clayton Bane, 4 AgEng.....Denison
Lyles, John V., Jr., 1 AgEng.....Laredo
Lynch, Sidney Tucker, 3 AA.....Dallas
Lyon, James Alvair, 4 PetE.....Buffalo
Lyons, John Fabius, 1 LA.....Fort Worth
McAdams, Harley H., 4 AA.....Devers
McAdams, James Orien, 4 AA.....Devers
McAdoo, Stewart French, 2 Agr....Abilene
McAfee, Winfield Russell, 1 AgEng.....
.....Wichita Falls
McAshan, Ernie James, 1 ME.....Houston
McBride, Carlyle Ames, 1 Pre-Vet.....
.....Winnsboro, Louisiana
McBride, Henry John, 3 LA.....Tyler
McBride, Martin, Jr., 4 Sci.....Greenville
McBride, Walter Lee, Jr., 3 AA....Dallas
McCain, Allie Vance, 1 AgEd.....
.....Hughes Springs
McCall, John V., 1 EE.....San Antonio

McCall, Richard H., 4 CE.....Waco
McCamish, John N., 2 VM.....San Antonio
McCampbell, Robert Floyd, Jr., 1 PetE.....Aransas Pass
McCanne, Jack F., 3 ChE.....Lakeview
McCarthy, William James, 1 PetE..Houston
McChesney, Don Ramon, 1 ChE....Del Rio
McClain, G. D., Jr., 1 Pre-Vet....Crockett
McClellan, William DeRouhlas, 3 EE.....San Antonio
McClintock, Charles Ralls, 1 PetE.....San Antonio
McClung, Ash Green, 1 CE.....Kerens
McClung, Roy Lee, 4 Agr.....Chico
McCord, Thomas Fuller, 1 PetE....Kingsville
McCormick, James Edward, 1 ME....Houston
McCormick, Murray Duane, 2 GE.....Blooming Grove
McCorquodale, David Bennett, 2 PetE.....Orange
McCoy, Herman Wilson, 3 ChE.....Clarksville
McCrary, William Bruce, 1 AA.....Ennis
McCreary, Joe Lee, 3 AA.....Eagle Lake
McCreary, Powell William, 3 LA.....Weatherford
McCreight, Carl C., 1 EE.....Batson
McCrory, Dorsey E., 2 AA.....Waelder
McCullar, Francis Max, 1 ME....Kingsville
McCulloch, George Robert, 2 AA....Refugio
McCullough, Hugh Thomas, 1 ME.....San Antonio
McCullough, Jean Franklin, 1 EE..Mesquite
McCutcheon, Alfred Holt, 2 AA..Fort Davis
McDade, John Harold, 1 Sci.....Amarillo
McDevitt, James Ferries, 1 Agr.....Marfa
McDonald, Everette Eugene, 2 EE..Pineland
McDonald, Harry Eugene, 1 PetE....Dallas
McDonald, Jim Field, 1 PetE.....Dallas
McDonald, William Emery, 1 PetE.....Corsicana
McDonald, Walter Henry, Jr., 1 Agr.....Neches
McDonough, Charles Howard, 1 ChE.....Beaumont
McDougal, William Jacob, 2 ME.....Neches
McDougald, Hulan Oree, 2 AgEd.....Iola
McElhannon, William Robert, 1 Arch.....Brady
McElhaney, Clayton E., 4 AgEd.....Athens
McElroy, Robert Allan, Jr., 3 EE..Victoria
McElroy, Robert L., 2 AgEng.....Belton
McFarland, Archie Miller, 1 PetE.....San Antonio
McFarland, Charles Alton, 1 Agr....Temple
McFarland, Joe H., 1 EE.....Flint
McFatridge, Charles Edward, 1 ME..Roxton
McGee, Robert Bruce, 2 Agr.....Sherman
McGee, Leroy Carlton, 2 EE.....Amarillo
McGee, Maurice F., 2 VM.....Dallas
McGee, William Hugh, 1 GE....San Marcos
McGill, Charles C., 3 Agr.....San Angelo
McGill, Herman N., 2 AgEng.....Tyler
McGill, Thomas Conley, 1 AA.....Tyler
McGlothlin, Earl W., Jr., 2 AA....Harlingen
McGowen, John R. C., 2 AA.....Amarillo
McGrady, Harden Bryant, 3 AA.....Abilene
McGregor, Oris Eugene, Jr., 3 LA.....Pendleton
McGregor, Walter Scott, 2 Sci.....Temple
McGregor, Walter Scott, 2 Agr.....Bryan
McGuire, John Gilbert, Spec Arch.....College Station
McHaney, John Grover, 4 AA.....Bryan
McIlheran,Robert C., 2 ME.....Dallas
McIlroy, Horace Sherman, 4 Agr.....Tolar
McInroe, Ben Franklin, 4 Agr....Stephenville
McIntire, Charles Robert, 1 PetE.....Brownsville
McIntosh, William Proctor, 4 EE....Calvert
McIntyre, Ernest Donald, 1 ME.....Tuscola
McKee, Joe Bailey, 2 VM.....Center
McKee, J. Edwin, 1 PetE.....Tyler
McKee, John Michael, 1 CE.....El Paso
McKemie, Jack Furman, 3 Sci.....Hearne
McKemie, Wesley Warren, 4 Agr....Hearne
McKenna, Floyd M., 2 ChE.....Brenham
McKennon, Clem B., 4 AgEd....Schulenburg
McKenzie, Blevins, 3 Agr....Fort Stockton
McKenzie, James Beecher, 1 EE....El Paso
McKenzie, Joseph David, 2 AA....Clarksville
McKenzie, Wilks Kenneth, 2 Sci....Miami
McKnight, Arlis Dalton, 2 AA.....Jacksonville
McKnight, Winston Clare, 1 LA....Gonzales
McLaughlin, Andrew Joe, Spec AgEng.....College Station
McLean, John Audrey, 1 AA.....Calf Creek
McLendon, Dan Harvey, 3 GE.....Pharr
McLeroy, John Otto, 3 CE.....Alvarado
McLerran, Archie Ralph, 2 ME....Cameron
McMahan, Justie Otto, 4 Agr.....Spur
McMahon, Robert David, 1 Sci....Cleveland
McMahon, William David, 2 PetE..Longview
McMeans, Robert Howard, 1 Sci....Houston
McMillan, Gordon Felix, 4 AA.....Mason
McMillan, Norris N., 2 Agr.....Mason
McMillen, Samuel A., Jr., 2 AA.....College Station
McMillen, Thomas Orval, 3 Sci.....College Station
McMinn, Herbert Welton, 1 AgEd.....Gouldbusk
McNees, Rufus George, 1 PetE.....Monterrey, Mexico
McNeill, Levi Jordan, Jr., 3 Agr..Brazoria
McNeill, William Cowin, 3 AA....Seymour
McNiece, Randall Vernon, 2 Agr.....Merkel
McNeil, John Jackson, 2 VM....Fort Worth
McNutt, William Harry, 2 VM..San Antonio
McPherson, Harry, 2 PetE.....Cleburne
McPherson, James O., Jr., 1 PetE....Houston
McRae, Walter Thomas, 1 PetE....Ft. Worth
McReynolds, John Marshall, 2 EE..Houston
McReynolds, Zach Aycock, 1 EE....Palestine
MacDonald, Ian Ross, 4 LA.....Galveston
Maceo, Vincent Anthony, 2 IE.....Galveston
MacInerney, Daniel Buckley, 4 LA.....Galveston
Mackey, John Cleaves, 1 Agr.....Wortham
Mackey, Robert Charles, 3 AA....Robstown
Macphearson, James Francis, 3 EE....Dallas
Maddox, Frank Ollin, 3 AA.....Ennis
Madison, William Frederick, 4 Agr.....Amarillo
Maedgen, Clarence Alvin, Jr., 3 VM..Mathis
Magdalena, Walter Anthony, 1 PetE.....Santa Rosa
Magee, Burt McKinley, 1 AA.....Houston
Magee, Fabrian Lee, 2 AA.....Frost
Mager, Neal Arden, 1 ChE.....Amarillo
Magers, Hugh Thomas, 4 Agr.....Brazos
Magill, William Hafer, 1 Pre-Vet....Dallas
Maier, Henry Keller, 3 VM.....Orange
Major, Fred James, Jr., 2 VM.....Bryan
Malavansos, Gus Chris, 2 LA.....Houston
Malo, Antonio C., 3 Arch....Tampico, Mex.
Malone, James Edward, Jr., 1 EE.....Howe
Malone, Milton Smith, 4 Agr.....Ballinger
Malven, Stephen St. V., 4 CE.....Washington, D. C.
Mandell, Buddy Paul, 2 ME.....Amarillo
Mangold, Clyde Henry, 2 Agr....San Antonio
Maniloff, Leon Nathan, 1 PetE.....Bryan
Manley, Carl Haskell, 1 ChE.....Denison
Mann, James Gerald, 1 LA.....Brady
Manning, Billy Robert, 1 AA.....Mexia
Manning, Charles Rufus, 3 AA.....Mexia

Manning, James H., 1 CM.....Humble
Manning, Waylon Edward, 4 LA...Beaumont
Manor, Thomas Lee, 1 EE.....Port Arthur
Maples, Herron Nichols, 1 PetE.....Bonham
Marble, Hugh Higman, 1 ChE....Beaumont
Marek, Joe Lee, 1 LA.....Temple
Marek, Schuerenberg Joseph, 2 AgEng....
.....Brenham
Mark, Irwin Charles, 1 Pre-Vet.....
.....Brooklyn, N. Y.
Markinson, Irving, 1 ChE.....Waco
Markle, David Albert, 3 AA....Port Neches
Markle, Elias Ward, Spec LA.....Bryan
Marks, Travis Smith, 4 Agr.....Barker
Marks, William Miles, 2 ME.....Beaumont
Marques, Raymond, Jr., 2 AA....Brownsville
Marquette, Louis Leddon, 4 CE.....Teague
Marschall, Herbert William, 2 LA....Dallas
Marsh, Gereld Eugene, 3 ME.....Amarillo
Marshall, C. Ernest, 1 EE.....Carthage
Marshall, John Alton, 4 AgEd.....
.....Heidenheimer
Marshall, James Mitchell, 1 Sci.....Gilmer
Marshall, Kenneth Jacob, 2 AgEd....Silsbee
Marshall, Lewis Hickerson, 3 AgEd.....
.....Heidenheimer
Martin, Austin Brancroft, 1 Pre-Vet.....
.....Daisetta
Martin, Alfred June, 1 PetE.....Beaumont
Martin, Arthur Max, 2 Sci.....El Paso
Martin, Carl Albert, Jr., 1 ChE....Menard
Martin, Carroll Clinton, 2 ME....McGregor
Martin, Clarence Herbert, 2 Sci.....Taylor
Martin, Dial Franklin, 2 Agr.....Gilmer
Martin, Daniel R., 1 AA.....Mart
Martin, Homer Clint, 2 AA.....Mason
Martin, Jack Dalton, 3 ME....San Angelo
Martin, Julian Everett, 2 LA....Normangee
Martin, James H., 4 AgEd.....Alexander
Martin, Jerry Tom, 3 VM.....Quitman
Martin, Lockett B., 1 Arch....San Antonio
Martin, Meredith T., 2 PetE....San Antonio
Martin, Paschal, 2 PetE.....Gilmer
Martin, Roy Grady, 1 AgEd.....Cotulla
Martin, Reuben Stone, 4 VM.....Jasper
Martin, Seth P., 1 Agr.....Mason
Martin, Ted, 1 AgEd.....College Station
Martin, Tommie G., 1 ChE.....Beaumont
Martin, Walter F., 2 EE.....Fort Worth
Martinez, Homer Thomas, 4 VM.....
.....Hebbronville
Martinsen, Henry Ole, 1 ChE.....Bryan
Mascorro, Mercurio, Jr., 2 ME.....Laredo
Mashburn, John H., 1 PetE.....Childress
Mason, Arland Ray, 2 AgEd.....Augusta
Mason, Donald A., 1 PetE....Norphlet, Ark.
Mason, John Pratt, 2 ME.....Houston
Massey, Jasper Earle, 1 PetE.....Houston
Mathews, Grover Cleveland, 3 PetE.....
.....Houston
Mathews, Raymond Clifford, 3 ME.....
.....Hot Springs, Arkansas
Mathieu, Lewis Caulden, 3 EE..San Antonio
Mathis, J. W., Jr., 1 AA.....Madisonville
Matthews, Bowden Webb, 2 AA.....Tyler
Matush, Frank Joe, Jr., 2 ME.....Temple
Mauer, John James, Jr., 2 ChE.....Pharr
Mavrico, Alex George, 2 Arch....San Antonio
Maxwell, Eugene William, 1 Agr.....
.....Wichita Falls
Maxwell, Keith, 1 ChE.....Dallas
Maxwell, Tom McCauley, 2 IE.....Waco
May, Monroe Upton, 4 Agr.....Sherman
Mayes, John H., 1 Agr.....Floresville
Mayfield, Hal Howard, 1 CE....San Angelo
Mayfield, Harold W., 2 AgEng.....Temple
Mayhew, Charles M., 2 ME.....Dallas
Mayhew, Ira Quinton, 1 CE.....Brady
Maynard, Curtis Frank, 3 Agr.....Pearl
Mayo, Gayle Everett, 1 Agr.....Tulia
Mayo, William P., 1 ME.....Houston
Meabon, Don M., 4 PetE.....Olney
Meador, Armour Ross, 4 Agr....San Antonio
Meador, Billy, 2 Agr.....Moody
Measeles, Millard Paul, 1 EE....Santa Rosa
Mebane, Paul Mitchell, 2 Agr.....Lockhart
Medders, Tracy B., 2 AA.....Mart
Medellin, Phillip, 2 IE.....Texarkana
Meek, Robert Lee, Jr., 2 Sci.....Freeport
Meisell, Eugene Tillman, 1 ME....Columbus
Meisenheimer, Wayne E., 4 ChE.....
.....Johnsville
Melman, Harold, 1 Pre-Vet.....
.....Washington, D. C.
Melton, Charles Howard, 1 AgEng..Emhouse
Melton, Garrett Fonville, 4 LA....Houston
Melton, John Freeman, 4 VM.....Lone Oak
Melton, William Curtis, 1 ME.....
.....Mount Pleasant
Merritt, Charles James, 1 AA.....Maud
Merritt, Travis Jewel, Jr., 1 AA....Houston
Messick, William John, 1 Agr....Plainview
Metcalfe, Joseph Davis, 4 CE....Pearsall
Metz, Tom W., 4 EE.....Center
Meyer, Chester Felix, 3 ME....San Antonio
Meyer, George Bernard, 3 VM.....Bryan
Meyer, Lawrence J., 2 PetE.....Palestine
Meyer, Norcliffe Sandford, 2 CE.....
.....Texarkana
Meynard, Ernest Bennett, 1 ME.....Cuero
Meyne, Herman Ferdinand, Spec Agr.....
.....College Station
Michael, Ralph, 4 Agr.....Bryan
Michalka, Rudolph Edmund, 1 ME.....
.....Cameron
Michener, Athol John, 1 ME.....
.....St. Louis, Missouri
Middleton, William Arthur, Jr., 4 PetE....
.....Bryan
Mikola, Harold, 1 Agr....Brooklyn, N. Y.
Milam, Robert Ashley, 1 EE.....Houston
Miles, Ellison, 1 AA.....Liberty
Miles, James Corbett, 3 LA.....Handley
Millar, Jerry Thomas, 1 Pre-Vet....Houston
Millard, Melvin Royce, 1 Agr.....Tye
Miller, Burnet, 2 ChE.....Waco
Miller, Buck Joe, 1 PetE.....Athens
Miller, Charles F., 1 PetE.....
.....Lake Charles, Louisiana
Miller, Doyle E., 3 ArchEng.....Cleburne
Miller, Ely H., 2 ChE.....Waco
Miller, Frederic H., 4 Sci.....Fort Worth
Miller, Glenn L., 1 PetE....Shreveport, La.
Miller, Glenn R., 2 AA.....Houston
Miller, Howell D., 1 Pre-Vet.....Tolar
Miller, Ivan Jack, 2 EE.....Fort Worth
Miller, Joe Beeley, 1 ChE.....SanAntonio
Miller, John Lee, 1 AA.....Mineola
Miller, Milton Robert, 1 Sci.....
.....Ft. Sam Houston
Miller, Paul Newton, 2 PetE....Liberal, Kan.
Miller, Ross Ivon, 2 Arch.....Bryan
Miller, Rex R., 1 CE.....Allison
Miller, Vaughan, Jr., 1 Pre-Vet..San Angelo
Milligan, Alfred D., 1 Agr.....Streetman
Mills, Council Clayton, 1 PetE....Beaumont
Mills, Ervin R., 1 EE.....Weslaco
Mills, Harold B., 2 VM.....Big Spring
Mills, Herbert M., 2 Agr....Sterling City
Mills, James Kenneth, 2 AgEd....Groesbeck
Mills, J. T., Jr., 2 PetE.....Pleasanton
Mills, Ramsey Zack, 1 ME.....Van
Mills, Vernon E., 2 ME.....Van
Mims, Clinton D., 1 PetE.....Houston
Minnoch, William A., Jr., 2 PetE.....
.....Galena Park

Minsky, Sol, 1 Pre-Vet.....College Station
Mistrot, Ralph William, 1 PetE.....Waco
Mitchell, Bryan E., Jr., 1 LA.....Marlin
Mitchell, Dan Russell, 2 Agr.....Baird
Mitchell, Frank William, 2 AgEd.....Kosse
Mitchell, George P., 1 PetE.....Galveston
Mitchell, Jess W., 1 PetE.....Kilgore
Mitchell, Milton E., 1 AA.....Houston
Mitchell, Richard David, 2 AgEd....Frost
Mitchell, Robert Eugene, 3 IE....Corsicana
Mitchell, Roy R., 1 PetE.....Tomball
Mobley, Jim Leonard, 4 AgEd.....Graham
Moehlman,Roger, 2 CE.....Bryan
Moffitt, Alfred F., Jr., 3 PetE.....Cuero
Mogford, John L., 4 Agr.....Streeter
Molt, Fred Lester, 2 VM.....Hinton Okla.
Monkres, Lanar Lancer, 1 PetE.....Arp.
Monroe, J. P., 1 EE.....Houston
Montague, Kenneth E., 2 PetE....Beaumont
Montfort, Robert Earl, 4 AA.....Corsicana
Montgomery, Clarence David, 1 ArchEng....
.....San Antonio
Montgomery, Dee, 1 AA.....Pandora
Montgomery, James Troy, 2 LA....Richards
Montgomery, Reed, Jr., 4 EE.....Pandora
Mooney, Glenn Alfred, 2 EE.....Denison
Moore, Andrew A., 3 VM.....Dublin
Moore, Benson A., 2 Arch.....Vernon
Moore, Cecil E., 1 Agr.....El Dorado
Moore, C. W., 2 PetE.....Pasadena
Moore, Dan, 1 Agr.....Era
Moore, Deck Murdock, 1 ChE.....Oakwood
Moore, Edwin Hewitt, 4 PetE.....Dallas
Moore, George D., 1 AA.....Ralls
Moore, George Hugh, 1 LA.....Waco
Moore, George Thomas, 1 ChE....Beaumont
Moore, Jack Buckley, 1 ME.....El Paso
Moore, Joe Hiram, 3 PetE.....Alvin
Moore, James M., 2 Sci.....Carthage
Moore, John W., 2 Agr.....Alvin
Moore, Milton Murray, 4 ME.....Houston
Moore, Norbett A., Jr., 2 LA.....Decatur
Moore, Paul Morgan, 4 VM.....Beeville
Moore, Richard M., 2 Agr.....McAllen
Moore, Thomas Joel, 4 PetE.....Dallas
Moore, Voy Vernon, 1 LA.....Lone Grove
Moore, William Joseph, 3 Agr....Mt. Vernon
Moore, William Richard, 1 ME....Munday
Moore, William T., 1 LA.....Bryan
Morehead, John H., 4 IE.....Bryan
Morehead, Ronald Milton, 1 Agr....Bryan
Morehead, Samuel E., 1 AA..College Station
Moreland, Bruce Malcolm, 1 AgEng.....
.....McKinney
Morgan, Isaac Alvin, 2 AA.....Marshall
Morgan, James O., Jr., 1 AA.....
.....College Station
Morgan, Maurice A., 2 VM.....Austin
Morgan, Otho B., 1 ChE.....Cumby
Morris, Albert Earl, 4 AgEng.....Graham
Morris, Donald Keith, 3 LA....Henderson
Morris, Dwight Luther, 1 LA.....Lamesa
Morris, Erwin Groves, 1 AA.....Seymour
Morris, James Arthur, 2 Agr.....Lindale
Morris, Jesse Lee, 1 Agr.....Lindale
Morris, Jamie Sears, 2 Agr.....Graham
Morris, Jack W., 1 PetE.....Ranger
Morris, Kyle Hunter, 1 ME.....Graham
Morris, Louis Rex, 1 Agr.....Lamesa
Morris, Raymond Irving, 1 ME....Galveston
Morris, William C., Jr., 2 EE.....
.....Shreveport, La.
Morrison, Roy C., 2 Agr.....May
Morriss, James Caldwell, 3 ME.....
.....Douglassville
Morriss, Robert Hal, Jr., 1 Pre-Vet.....
.....Mountain Home
Morrow, Arthur D., Jr., 3 Agr....Wortham
Morrow, John M., 2 RE.....Wortham
Morrow, Ray N., 2 AgEd....Grand Prairie
Mortan, George Monroe, 2 EE.....Sherman
Moseley, Hal Millard, 2 Arch.....Dallas
Moseley, Joe Clifton, 1 CE.....Cleburne
Moseley, John J., 2 Agr.....Quanah
Moseley, Walter Oliver, 3 LA....North Zulch
Moser, Norman N., 3 AA.....DeKalb
Mosesman, Alex B., 1 ChE.....Dallas
Mosher, William Lloyd, 1 CE.....Dallas
Moss, Coker Worth, 1 ME.....Chireno
Moss, Joseph Taylor, Spec Sci.....Sinton
Mosty, Charles H., 2 Agr.....Center Point
Mostyn, Henry B., 1 Pre-Vet.....Magnolia
Mothes, Frank G., 2 Arch.....Seymour
Moudy, Chester Ellis, 2 ME.....Nevada
Moughon, Billy C., 1 VM.....Lufkin
Mousner, Leonard, 1 CM..College Station
Mozisek, Arnold R., 2 ME.....Weimer
Mueller, Carl B., 3 PetE.....Austin
Mueller, Wayne Livingston, 1 ChE....Kenedy
Mulcahay, Donald Max, 1 PetE.....Waring
Mullins, Orin Elbert, 2 VM.....Bryan
Munn, Woodrow Wilson, 2 Agr.....
.....Sterling City
Munson, John Hanks, 1 CE..East Columbia
Munz, Carroll P., 4 IE.....Brenham
Murdock, William Ernest, 1 LA..Oakwood
Murph, Howard Eugene, 1 EE.....Arp
Murphey, Frank Sidney, 2 Agr....Marshall
Murphy, David, Jr., 3 PetE.....Mexia
Murphy, Dan W., 2 LA.....Harlingen
Murphy, Edward York, 2 AA.....Snyder
Murphy, James Austin, 1 PetE.....Waco
Murrah, Tom A., 3 LA....Bartlesville, Okla.
Murray, Grady Odell, 3 Agr.....Bryan
Murray, Horace G., 1 Agr.....Hico
Murray, Irvin Bernard, 4 GE.....Orange
Murray, Rensselaer J., 1 GE.....Orange
Murray, Robert John, 1 LA.....Arlington
Murray, William Hausser, 1 ChE.....
.....Eagle Pass
Muse, John Willis, 1 LA.....Dallas
Muska, Frank R., Jr., 1 EE.....Rockport
Muston, Claudie Guinn, 1 AgEd....Rockdale
Myers, Dudley Dale, 1 PetE....Cedar Bayou
Myers, Elton Philip, 3 CE.....Palestine
Myers, John Clark, 3 Agr.....Floresville
Myers, Oliver Wesley, Jr., 4 AgEd.....
.....Valley View
Nachlinger, Elmo Emmett, 3 ME....Taylor
Nachlinger, Lester Louis, 1 ME.....Taylor
Nagel, Robert, 4 Agr.....Fredericksburg
Nagy, Louis, 3 Agr.....Millett
Nall, John Lyndall, 1 ME.....Palestine
Nance, Felix Alvin, 1 Agr.....George West
Nance, James Ballard, 1 AA..Hallettsville
Nance, James L., 1 Agr.....George West
Narro, Frank, 1 Arch.....Saltillo, Mexico
Nash, William Elton, 5 Arch.....Bryan
Nash, William Newton, 2 AA.....Leona
Nasworthy, Mark Henry, Jr., 1 Agr.....
.....San Angelo
Nathanson, David, 2 ME.....Dallas
Naughton, John Bart, 2 Agr....Waxahachie
Naylor, Harry Benjamin, 3 VM....Center
Naylor, Henry Laurie, 1 ArchEng.....
.....Wichita Falls
Neal, Floyd Andrew, 1 Agr.....Yoakum
Neal, Harbon Alvin, 1 Agr.....San Angelo
Neal, Jack, 4 AgEng.....San Antonio
Neal, Roy Layden, 1 AA.....Forney
Neale, Bill Master, 2 ChE.....Denton
Neale, Harold Jasper, 1 PetE.....Denton
Neas, Cyril Valner, 1 AgEng.....Abilene
Neece, Lawrence Chester, 2 ME....Mobeetie
Neeley, Price, 2 Agr.....Decatur
Neelley, Alton G., 1 PetE.....Wellburn
Neill, Scott Edward, 1 ME.....Borger
Nelson, James A., 3 Sci.....Orange

Nelson, Robert Richard, 2 Agr....Hubbard
Nesrsta, James Oliver, 3 LA.....Flatonia
Nethery, Wendell E., 3 AgEng.....Milam
Netting, Conrad John, 1 PetE.....San Antonio
Neubert, Siegfried Thomas, 2 VM.....Youngstown, Ohio
Neumann, Andrew Fredie, 2 Agr....Riesel
Neumann, John Clark, 1 CM.....Houston
New, Henry Ford, 2 Agr.....Buda
Newby, William Franklin, 1 IE..Brownwood
Newman, Carl Alvin, 1 Sci.....Caldwell
Newman, Cyrus James, 1 Agr.....Graham
Newman, John William, 1 Agr.....Fort Sam Houston
Newton, Charles Ladell, 2 AgEd....Maysfield
Newton, Dennis E., 1 Sci.....Kirbyville
Newton, George Kenneth, 1 PetE....Dallas
Newton, James Gray, 1 ArchEng.....Robert Lee
Nicholl, Nelson Leon, 3 VM.....Amarillo
Nicholls, Paul Edward, Jr., 2 ME Galveston
Nichols, Albert Gordon, 4 ChE.....Dallas
Nichols, Cloyd Raymond, 1 AgEng....Anna
Nichols, Doyle Rowland, 1 AgEng.....Kerrville
Nichols, Fred Joseph, 2 EE.....Dallas
Nichols, James B. 2 ME.....Corsicana
Nichols, Lyle Watson, 1 PetE....Fort Worth
Nichols, Roy Adolphus, 1 AgEng..Rockwall
Nicholson, Harold Earl, 4 AA.....Wheeler
Nicholson, John Noble, 2 LA.....Houston
Nickerson, Warren, 1 Pre-Vet..San Antonio
Nickols, John Elvy, 2 Arch....College Station
Nicolai, Ernest O., 1 PetE.....Waller
Nigliazzo, Luke Charles, 1 PetE.....Steele Store
Nobles, Charles Edward, 2 EE.....Paris
Noel, Easton Adrien, 1 AgEng.....Donaldsonville, La.
Noel, James A, 2 ME.....Rice
Nolen, John Emmet, 1 PetE.....Houston
Noles, Lawrence Eugene, 2 AA.....Mexia
Nordhaus, Alexander, Jr., 3 ME.....San Antonio
Norman, Clyde Thomas, 4 CE.....Dallas
Norman, Joseph Robert, 1 ME....Palestine
Norris, Frederic William, 2 PetE..La Porte
North, W. G., Jr., 2 PetE.....Cuero
Northrop, Joseph Walter, 2 PetE..Houston
Northrop, Page Harris, 2 Arch....Houston
Norton, Adolphus Blackwell, 3 EE....Waco
Norton, Arba LeRoy, 1 EE....San Antonio
Norton, Corbett Palmer, 1 ChE....Hereford
Norton, William Marcy, Jr., 1 EE..Bovina
Norwood, James Scott, 2 AA.....Houston
Novelli, Ross Joseph, 1 LA.....Galveston
Nuckols, William D., 4 EE.....Clifton
Nuckols, William Horton, 1 AA.....San Antonio
Null, Glenn Garland, 3 AA.....Waco
Null, Thomas Blanton, 1 CM.....Waco
Nutt, Gerald Boyd, 1 AA.....Beeville
Nye, Ira Benjamin, 2 VM.....Dallas
Oakley, Alonzo Wesley, Jr., 4 EE....Terrell
Oates, Eugene C., 1 ME.....Ennis
Odell, Earl G., 4 EE.....Dallas
Odom, James Elmo, 1 Agr.....Wall
Odom, Malcolm Watson, 1 PetE.....Dallas
Olbrich, Alvin Paul, 2 ME.....Burlington
Olivarri, Joe Stewart, 1 ChE..San Antonio
Oliver, Charles Robert, 2 LA....Fort Worth
Oliver, Mac Donald, 1 PetE....San Antonio
Olney, Mansford George, 1 ChE.....Burnet
Olsen, Hubert Henry, 2 ChE.....Galveston
Olson, John Walter, 1 CE.....El Paso
O'Neal, William Causby, 2 AgEd..Elmhouse
Orbison, Joe Roy, 2 PetE.....Longview
O'Rear, Samuel Andrew, 2 AA....Wellington
Orgain, Henry Kellogg, 2 CE.....Temple
Orms, Barnett, 1 PetE.....Henderson
O'Rourke, James Edward, 1 EE....Beaumont
Orson, William Noel, 1 AA.....Midland
Ortiz, Mateo Remley, 2 Arch.....Mexico City, Mexico
Osborn, Marshall Leon, 1 Agr.....Claude
Osborn, Oliver, 3 ChE.....El Paso
Osborne, Charles Edward, Jr., 1 ME.....El Dorado, Arkansas
Osborne, Gray Jeffrey, 2 PetE..Madisonville
Oshman, Jack, 4 AA.....Richmond
Ott, Paul E., Jr., 3 ChE.....Dallas
Owen, Albert Henry, Jr., 2 ME.....Wichita Falls
Owen, Herbert Granvel, 2 ChE.....Castell
Owen, Roy, 3 Agr.....Athens
Owens, Willard Wayne, 1 EE.....Brady
Owens, Harvey Milton, 1 AA.....Lindale
Owens, Jesse Lee, 2 ChE.....Pilot Point
Pace, Alfred Lloyd, 3 Agr.....Athens
Pace, Edwin Russell, 1 EE.....McGregor
Packer, Roy Edward, 1 AA.....Dallas
Paclik, Charlie J., 2 VM.....Gainesville
Padgett, Alvin D., 1 EE.....Panhandle
Padgett, Ernest M., 2 ChE.....Fort Worth
Page, Glacy Everett, 2 Agr.....Longview
Page, George Robert, Jr., 1 PetE..Houston
Page, Grover, 2 Sci.....Dallas
Paggi, Charles E., 2 PetE.....Beaumont
Paley, Kenneth James, 2 VM.....Lake Forest, Illinois
Palmer, Cecil Marion, 2 EE.....Waco
Palmer, Gough Joseph, 1 CM.....Houston
Palmer, Jack C., 2 ME.....Ranger
Palmer, William Clifford, 4 PetE....Ennis
Pamplin, Thomas Nolan, 1 ME..Miami, Fa.
Pannell, Ernest Woodrow, 1 PetE.....Waco
Pappas, George Frank, 2 EE.....Dallas
Paris, Ferdinand Beldon, 1 PetE..Houston
Park, John David, 1 CE....McAlester, Okla.
Parker, Brady Oscar, 1 CM.....Lyford
Parker, Clarence Calvin, 3 LA.....Houston
Parker, Don, 1 EE.....Waxahachie
Parker, Dan Right, 4 LA.....Houston
Parker, Ernest Clyde, 1 PetE..San Antonio
Parker, James Lawrence, 1 AA....Milford
Parker, Roth Ellis, 2 LA.....Crockett
Parker, Thomas Allen, 2 AgEd....Menard
Parker, Willie Clay, 1 Agr.....Centerville
Parks, Argus Frazier, 1 CE....Throckmorton
Parks, George Benjamin, 1 PetE..Beaumont
Parks, Hunter William, 4 AA.....Terrell
Parlette, Ralph, I., 2 ChE.....Houston
Parmley, Lee Clinton, 4 AgEd..Nacogdoches
Parrett, Guy C., 1 ChE.....Tomball
Parris, Hugh Buster, Jr., 1 LA.....Dallas
Parrott, Fred H., 2 ChE.....Denison
Partridge, Harold James, 2 AgEng.....Munday
Pate, Brantley Miller, 4 ME..College Station
Pate, Francis MacInerney, 3 ChE.....Houston
Pate, Jack Raymond, 1 PetE.....Harlingen
Patrick, Lindsey Allen, 2 AgEng..Calvert
Patrick, Orrell Lee, 2 Che.....Corsicana
Patrick, Richard Lawrence, 1 AgEng.....Temple
Patterson, Aubrey Basil, 2 Agr..Henderson
Patterson, Carl A., 2 AA.....Bryan
Patterson, George Willis, 2 Agr....Lindale
Patterson, Ned Houghton, 3 PetE....Temple
Patterson, Wesley Burton, Jr., 2 AA.....Axtell
Patterson, Wylie M., 3 PetE.....Rogers
Patton, Carl Elliott, Jr., 3 AA....Beaumont
Patton, James DeWitt, 1 AA.....Dallas

Patton, William Hamilton, 1 AA....Hereford
Pavelka, Miro Arthur, 3 ME.....Ennis
Paxton, James Nelson, 1 PetE ..Houston
Payne, Alfred Henry, 4 AA.....Spur
Payne, Herschel Howard, 2 VM....El Campo
Payne, Melvin Perry, 2 Agr.....Bryan
Payne, Viron Ernest, 2 EE.....San Saba
Payne, Windrow Charles, 4 AgEd..Buffalo
Payne, William Grady, 2 LA....Cross Plains
Peace, Jewel Raymond, 2 ME.....Mission
Peacock, Hamilton Philip, 1 ME.....
.....Jacksonville
Pearce, Maurice Rhea, 1 PetE.....Waco
Pearce, Reggie B., 3 EE.....Sterling City
Pearson, Mather Marvin, 1 LA.....Tyler
Pearson, Philip Edgar, 1 ChE Wichita Falls
Pearson, Roy Glenmore, 1 EE.....Gilmer
Pearson, Robertson McMinn, 1 AA..Houston
Pearson, William Fulton, Jr., 1 ME..Dallas
Peavy, Herbert Leonard, 3 AA....Beaumont
Pecena, Ben Joe, 2 AgEng.....Wheelock
Peck, Jack, 1 PetE.....Beaumont
Pedigo, Edward Maurice, 4 AA....Sherman
Peeler, Cletus Ewing, Jr., 2 Agr....Dallas
Peers, Harry L., 4 ME.....Fort Worth
Peirce, Theron LeRoy, 2 CE.....Waco
Pena, Gustavo J., 3 AA.....Laredo
Pendery, Roger Adrian, 2 LA....Fort Worth
Pennington, David Ashel, 1 ME.....
.....Corpus Christi
Pennington, Malcolm Cleopas, 3 Agr.....
.....Harold
Peoples, Henry Marvin, Jr., 1 EE Marquez
Pepper, George Robert, 1 Agr....Sweetwater
Percifull, Wayman Wade, 3 Agr....Bronte
Percy, Harry Victor, 3 AA.....Jonah
Perdue, Woodrow Wilson, 1 EE.....Ennis
Peret, Max Mills, 2 AA.....Plainview
Perfect, George Barham, 1 LA.....Dallas
Perkins, Tom Arcade, 2 AgEd..Mt. Pleasant
Perkins, Wesley, 1 ME.....McKinney
Perrin, Frank W., 1 EE.....Cameron
Perritte, Herbert Hoover, 3 ME.....
.....College Station
Perry, Clifton G., 3 CM.....Lovelady
Person, Murray Wayne, 1 PetE.....Mexia
Persons, John Verner, 2 Sci.....Bryan
Persons, Rowland Walton, 1 AA.....Bryan
Pessin, Simon Morris, 1 Pre-Vet.....
.....New York, N. Y.
Peter, Lewis Sim, Jr. 2 ME....San Antonio
Peters, Eber Hanna, Jr., 1 PetE..Calvert
Petersen, Donald Winfield, 1 ME.....
.....Fort Worth
Peterson, Arvid V., 2 AgEd.....Olivia
Peterson, Glen A., 4 Agr.....Port Lavaca
Peterson, Lynton Lee, 1 ME.....Louise
Petkovsek, Rufus Seward, 1 ChE..Beaumont
Pettit, Edward York, 1 PetE.....Alpine
Pettit, Morris Winham, 1 Agr....Bloomburg
Petty, Hermon Leon, 1 CM.....Santo
Petty, Lee, Jr., 1 EE.....Marquez
Pfeiffenberger, George W. , 3 TE....Bryan
Pfeiffer, John J., 2 AA.....Lockhart
Phenix, Bruce Clarks, 2 ChE....Port Arthur
Philips, Verne Douglas, 1 ME.....Mexia
Phillips, Albert Barrow, 1 ME.....Marlin
Phillips, Anthony J., Jr., 3 AA.....Dallas
Phillips, Lyndsay Graves, 3 AA.....
.....Stephenville
Phillips, Norman Gilpin, 1 EE.....Dallas
Phillips, Philip Barr, 1 PetE.....Borger
Phillips, Rupert L., 4 Agr.....Iredell
Phillips, V. D., Jr., 1 ChE.....Waxahachie
Phillips, Wylie Robertson, 3 AA.....
.....Stephenville
Phythian, Walter R., 4 LA.....Taylor
Pickett, Arnold Herd, 3 ME.....Post
Pickett, Garland Durwood, 1 AA..Thorndale
Pierce, Fred Allen, Jr., 1 AA.....Luling
Pike, Joel Barney, 1 EE.....Dallas
Pinchback, Jarvis Sylvester, 1 PetE.....
.....Beaumont
Pinchback, Rube Thomas, Jr., 2 CE.....
.....Beaumont
Pinchback, William Patrick, 1 PetE.....
.....Beaumont
Pinchin, Harold Jean, 2 ME....Halletsville
Pinney, James Eugene, 3 ChE..Santa Anna
Pipkin, Carl Harold, 1 AA.....Beaumont
Pipkin, Raymond Grady, 2 LA.....Eastland
Pipsaire, Manuel J., 2 EE.....Henderson
Pitner, Homer Melton, 2 RE.....Denton
Pitrie, R. D, Jr., 1 PetE.....Raywood
Pitts, Derrell Dick, 1 ME.....Grandview
Platt, Sidney Leroy, 1 EE.....Highlands
Pletcher, William Phelps, 3 Agr..Harlingen
Pliler, Robert Dewey, 1 ME.....Longview
Plowman, George Harden, 1 PetE.....
.....San Antonio
Plunket, Paul Wood, 1 AA.....Greenville
Poage, Alvin Leroy, 1 ME.....San Antonio
Pochyla, Herbert William, 2 ME.....Waco
Polancic, Joseph Conrad, 1 LA.....
.....Winsboro, Louisiana
Polanovich, Anton Tony, 2 PetE.....
.....Fort Worth
Polifka, Frank Jacob Frederick, 3 PetE....
.....Palacios
Pollan, G. W., 2 EgEng.....Rice
Pool, Frank Morrow, 1 PetE.....Waco
Pool, George Willard, 2 Agr.....
.....Richland Springs
Pool, John Lee, 4 EE.....Dallas
Poole, Dan Henry, 4 ME.....Sherman
Poole, William James, 1 ChE.....
.....Evanston, Illinois
Pope, Jack, 2 Agr.....Mt. Pleasant
Pope, Robert Cullen, 3 AgEd.....Henrietta
Porter, Aubrey Lynn, 4 AA.....Belton
Porter, Henry Harnes, 2 ME.....Belton
Porter, Thomas William, 1 AA..Hillsboro
Porter, Walter Lee, Jr., 2 ChE.....
.....College Station
Porterfield, Clyde Jackson, 2 AgEd..Moody
Post, Ben Gibson, 2 LA.....Montgomery
Post, Thomas G., 4 PetE.....Montgomery
Postle, Douglass French, 2 CE..Glencoe, Ill.
Postle, Merton French, 2 CE....Glencoe, Ill.
Potter, Joe, 3 LA.....Roscoe
Potter, Woodrow Wilson, 2 CE.....
.....Weatherford
Potthast, Henry Ford, 1 AgEd.....Weimar
Potts, Francis Morgan, 2 Agr.....Waco
Potts, John William, 2 ChE.....Dallas
Pou, Robert Louis, 4 AA.....Dallas
Poutra, Elmer T., 3 AA.....Beaumont
Powell, Hubbard Comey, 1 ME....Anahuac
Powell, Richard L., 3 CE.....Dallas
Power, James Aubrey, 4 AA.....Bartlett
Powers, Forest Lewis, 1 EE.....Kosse
Powers, John Graham, Spec AA....Bryan
Poyner, Con Foly, 1 ChE.....Ranger
Pratt, Elmer E., 4 ChE.....Houston
Pratt, William Iley, 2 LA.....Midland
Presnal, Robert William, 1 ME.....Bryan
Preston, D. G., 3 AgEd.....Edgewood
Preuit, Richard Irby, 3 Sci.....Greenville
Prewitt, Richard Robert, 2 CM.....
.....Columbus, Louisiana
Price, Charles Walemon, 1 LA....Newcastle
Price, Elmer, 1 PetE....Miama, Oklahoma
Prideaux, Minton Albert, 1 Sci.....Graham
Pridgen, James E., 2 Sci.....Cuero
Pridgeon, Lewis H., 1 Agr.....Bryan
Primm, Hugh Robert, 3 CM.....Dallas

Pringle, Brantley Ross, 2 LA.....Marlin
Pringle, Jefferson Parker, 3 PetE....Marlin
Prinz, Harold Elmer, 1 Arch.....Dallas
Pritchett, Oris, 1 AgEd.....Bedias
Privette, Robert Eugene, 1 CE....Dorchester
Proctor, William Sydney, 3 EE.....
.....Bellevue, Pennsylvania
Propes, Weldon Douglass, 1 PetE..Henderson
Propps, Orville Daybrook, 1 Agr....Benjamin
Provost, Francis Edward, 1 EE..Port Arthur
Prugel, August E., 2 Agr.....Eden
Prugel, James Albert, 2 Agr.....Eden
Pruitt, Marion Manath, 4 Agr.....Greenville
Prutzman, Forrest Gilbert, 4 PetE.....
.....Beaumont
Puckett, James Roger, 1 PetE....Queen City
Puckett, John Wilson, 1 CE.....Pharr
Pullin, George Washington, 2 PetE.....Taft
Pump, William Edward, 2 PetE.....Gulf
Pustejovsky, Edwin Roy, 4 Agr.....Runge
Pustejovsky, Victor Werner, 1 AgEd.....
.....Schulenburg
Pyeatt, Woodrow Wilson, 2 PetE....Olney
Pyle, Garland Bruce, 1 AA.....Houston
Qualtrough, Henry Mosehart, 4 LA.....
.....Houston
Quarles, Norman Kerrigan, 2 AgEd..Slocum
Quilichini, Leovigildo Vicente, 1 CE.....
.....Sabana Grande, P. R.
Raabe, Martin L., 2 CE.....Waco
Rabinowitz, Darwyn, 2 PetE.....Dallas
Racki, Matt M., Jr., 4 CE.....Beaumont
Radack, Edmund Andrew, 2 PetE....Glidden
Radbury, Joseph Allen, 3 Agr.....
.....College Station
Ragan, Wallace Chauncey, Jr., 1 PetE.....
.....Houston
Ragsdale, James Edward, 2 Agr....McAllen
Ragsdale, John Norman, 1 Agr..Jacksonville
Ragsdale, Milton McArthur, 1 EE.....
.....San Angelo
Rahn, Lehman William, 1 PetE.....Dayton
Raht, Adolphus Graham, 1 Sci..San Antonio
Ralls, Emory Carvin, 1 AA.....Ralls
Ralph, Orville Marshall, 4 CE..Brownsville
Ramirez, Refael, Jr., 1 PetE....Hebbronville
Ramirez, Valentin, 4 ME.....Hebbronville
Ramsay, Malcolm, 1 CE.....Greenville
Ramsay, William Calhoun, 3 AA..Bandera
Ramseur, Weldon W., 4 PetE.....Houston
Ramsey, James Burl, 3 AA.....McKinney
Ramsey, Robert Ray, 1 Agr.....Uvalde
Randol, Joe Brown, 2 PetE.....Galveston
Randolph, Gayle Bowden, Jr., 4 CE.....
.....Madisonville
Raney, Alfred Lafayette, 3 AA..Fort Worth
Rankin, Charles William, 1 ChE..Brenham
Ranson, Doyle Mincer, 3 Agr.....Lamesa
Raouf, Ali Parviz, 4 Agr..Harfa, Palestine
Rasmussen, Oscar Andrew, 1 ChE..Seadrift
Ratcliff, Willie Harrold, 2 Agr....Marshall
Rawls, Francis Napoleon, Jr., 3 AA.....
.....Jacksonville
Ray, Leonard Frank, 3 Agr.....Longview
Rea, Harry Adolphus, 1 EE.....Dallas
Rea, Robert Howard, 4 AgEng..Weatherford
Read, Woodrow Wilson, 2 PetE....Houston
Reading, Robert Ellis, 3 ME.....El Paso
Reagan, Bruce Warner, 4 AgEng.....Waco
Reagan, Echwood Hardy, 2 ChE....Marquez
Reagan, Rocky L., 3 Agr.....Beeville
Reavis, Harley Neal, 1 PetE.....Livingston
Rece, Warren Putnam, 2 AgEng.....Dallas
Rector, Bill Nat, 3 Agr.....Sanger
Rector, Walter S., 2 PetE.....Houston
Redden, Thomas Lee, 3 AA.....Temple
Redford, R. J., 3 AgEd.....Kerens
Redmond, Harold Edwin, 3 VM.....Luling
Reed, Albert William, Jr., 4 LA.....
.....Brownsville
Reed, Ferdinand Joseph, 2 PetE..Beaumont
Reed, Roland Earl, 1 ME.....Wildorado
Reeder, Vendor Harvard, 4 AA.....
.....Hughes Springs
Reeder, William Harrison, 1 AA.....
.....Hughes Springs
Reese, George Gordon, 4 AgEd....Josephine
Reeves, William Otho, 4 AA.....Mexia
Regan, Thomas James, 1 AA.....Dallas
Regmund, Jerry, 3 AgEng....Corpus Christi
Regmund, William Charles, 4 ArchEng....
.....Corpus Christi
Rehkemper, Wilbur Leonard, 2 VM..Dallas
Rehmet, Joe Reynolds, 3 PetE.....Alice
Reid, Randon Munger, 1 ME.....Dallas
Reinarz, Alvin Robert, 4 ME....San Antonio
Rektorik, Julius, 4 AgEd.....Robstown
Reneau, John B., Jr., 3 VM.....Munday
Renfrow, Douglas Duana, 1 LA.....
.....Miama, Oklahoma
Rennels, Fred Logan, 1 Agr.....Vernon
Renshaw, Thomas L., 1 AA.....Cumby
Reser, Wayne Allan, 4 Sci.....Bryan
Restivo, Frank Andrew, 1 AA.....Bryan
Reyes, Alvino V., 2 PetE.....Berclair
Reynolds, John George, 1 AA.....Dallas
Reynolds, Lelmer C., 4 Agr..College Station
Reynolds, La Don, 1 PetE.....Mabank
Reynolds, Walter, 1 LA.....Sour Lake
Rhea, Judge G., 3 AgEd.....Mt. Pleasant
Rhea, Robert M., 2 ME.....Forney
Rhodes, Joe Walker, 2 AgEng.....Rockwall
Rhoads, Lee Wasley, 2 AgEd.....Rockwall
Rhodes, Coke Horne, 2 LA.....Austin
Rhoten, Gilbert Paul, 1 EE.....Fort Worth
Rice, Ib Boyd, 2 Agr.....Lindale
Rice, Johnny M., 1 Agr.....Collinsville
Rich, Charles L., 3 LA.....Lovelady
Richards, Tom Sidney, 1 ME.....Houston
Richards, William C., 1 Agr.....Grapeland
Richardson, Charles Ray, 1 CE.....Trenton
Richardson, J. D., 1 AgEd.....Chester
Richardson, James Edwin, 2 PetE....Bryan
Richburg, Jurie Adjustulas, 1 Agr.....
.....Winnsboro
Richman, Wallace R., 4 CE..College Station
Richmond, Harry David, 1 AA..Raymondvile
Richmond, Jack Samuel, Jr., 4 Agr.....
.....Mexico City, Mexico
Richmond, Moscow Kazon, 2 EE....Borger
Richmond, Wallace Parrish, 4 CE.....Kyle
Richter, Enoch Frank, 1 PetE.....Alvin
Ricks, Charles L., 2 LA.....Ennis
Ricks, Morgan, 1 PetE.....Houston
Riddle, Kyle Lloyd, 4 AA.....Decatur
Riddle, Rolean, 2 LA.....Decatur
Ridenour, Jefferson Dee, 3 Agr.....Dallas
Ridgway, John Riley, Jr., 3 EE.....Dallas
Ridlehuber, Jim Mack, 1 Agr.....Tyler
Riegel, Louis Franklin, Jr., 1 ChE.....
.....Beaumont
Riley, Allen Glenn, 2 CM.....Hamilton
Riley, Thomas Mack, 1 AgEd.....Hamilton
Risinger, Ben Weir, 1 AgEng.....Eddy
Ritchey, Lowie Clinton, 1 ME....Marathon
Reves, C. T., Jr., 4 Sci.....Winters
Rives, Jake Dennard, 3 Agr.....Laneville
Rivoire, Olin Grant, 2 EE.....Marysville
Roach, Walter, Jr., 1 ChE.....Waco
Roark, James F., 3 AA.....San Antonio
Robbins, J. Thorpe, 1 Agr.....Coolidge
Robert, Frank E., 4 AgEd.....Latexo
Robert, William Carl, 1 ChE.....Bryan
Robert, Walter Lee, 3 AgEd.....Crockett
Roberts, Austin Williford, 1 PetE..Houston
Roberts, Cephas E., 1 AgEd.....Poynor

Roberts, Charles Vaughn, Jr., 2 Sci.....Overton
Roberts, Roy Denzel, 1 ChE.....Kennedy
Roberts, Truman Ernest, 1 EE....Crawford
Roberts, Truman Loraine, 1 Agr.....Wills Point
Roberts, William Dan, 3 VM.....Birmingham, Alabama
Roberts, William Riley, 1 AgEd..Rising Star
Robertson, Barton Warren, 1 ME..Amarillo
Robertson, Herbert Streetman, 1 Agr.....Bryan's Mill
Robertson, William Lee, 1 Pre-Vet.....Commanche
Robinson, Art I., 4 ChE.....San Antonio
Robinson, John H., 4 Sci.....Dallas
Robinson, Joe Martin, 2 AA.....Missouri
Robinson, Lehman Newton, 1 Agr..Weldon
Robinson, Robert Raymond, 2 ChE..Dallas
Robinson, William Shannon, 1 EE....Shiro
Robishaw, Alice Paul, 1 PetE.....Houston
Robison, James William, 3 AA.....Claude
Roche, Frank Brun, 1 LA.....Houston
Rockwell, Cecil C., Jr., 2 LA.....Houston
Rockwood, William Rust, 1 ChE....Wharton
Roddy, Bob Chistopher, 1 ME.....Wharton
Roddy, William Tipton, 2 AA.....Troup
Rodgers, John Albert, 4 ChE.....Bryan
Rodgers, Robert Baker, 2 CE....San Antonio
Rodgers, Robert James, 2 VM.....College Station
Roe, Joe Biggs, 1 Sci.....Carthage
Roesner, Earl Harold, 1 Agr.....Katy
Rogers, Andrew Weir, 2 CE.....Corsicana
Rogers, Billy Birk, 3 EE.....Alvarado
Rogers, Edward Rutledge, 1 CM.....Hale Center
Rogers, Herbert Earnest, 1 CE.....Realitos
Rogers, James Dudley, 1 ME.....Dallas
Rogers, Jack M., 3 AA.....Batson
Rogers, John Sinclair, 3 Agr.....Houston
Rogers, Owens Adair, 2 AA.....Mart
Rohde, Clarence A., 2 Agr.....Brady
Roland, Richard C., 2 Agr.....LaFeria
Rollins, Andrew P., Jr., 2 CE.....Dallas
Rollins, Joseph Guy, 2 LA.....Austin
Roleson, Glen C., 1 ME.....Brady
Rose, Alvis Truett, 1 AgEd.....Tomball
Rose, Donald Haworth, 2 CE.....Amarillo
Rose, Harold E., 3 ME.....Port Arthur
Rose, Paul Pittman, 2 ArchEng..Galveston
Rosello, Manuel Joseph, 1 LA....Galveston
Rosenberg, Harry B., 2 VM.....New York, N. Y.
Rosenthal, Jacob Loyons, 4 ChE....Houston
Ross, Fred Tarnky, 3 Agr.....Chico
Ross, George W., Jr., 2 EE.....Bryan
Ross, Omar Wilson, 3 EE.....Dunn
Ross, William Robert, 1 LA.....Franklin
Roth, Sidney A., 2 VM....New York, N. Y.
Roth, Victor Eugene, 2 ChE..New Braunfels
Rothrock, Joseph Edward, 2 CE..Kerrville
Rountree, Charles Osborn, 1 ChE.....Gilbert, La.
Rountree, James E., 4 Agr.....Garden City
Rouse, Clifford Burdette, 1 AgEng.....Carrizo Springs
Routt, Joseph E., 4 AA.....Chapel Hill
Routt, Jack R., 2 ChE.....Chapel Hill
Routt, William A., 1 AA.....Chapel Hill
Rowe, Benson, 1 Agr.....Hughes Springs
Rowe, Henry Hilliard, 3 ME..San Angelo
Rucker, Herbert Lindsey, 1 CM.....Santo
Rucker, Robert Henry, 3 Agr.....Franklin
Ruckman, Tom M., 2 AA.....Karnes City
Rudasill, Nichols Homer, 2 EE..Rocksprings
Rudnick, Albert, 1 AA.....Dallas
Rudy, Jack Harris, 1 Sci.....Vernon
Ruffin, James Clifton, 1 Sci.....Mansfield, Louisiana
Ruhman, Weldon A., 4 AgEd.....Kenedy
Ruiz, Francisco G., 1 Arch.....Tampico, Mexico
Rushing, Eli Ferrand, 2 LA....Stephenville
Rusk, Frank Edward, 1 Pre-Vet.....Wichita Falls
Russ, Clarence Albert, 1 ME.....Houston
Russ, Jack C., 1 CE.....Palestine
Russ, Thomas Arthur, 1 Arch.....Houston
Russell, Charles Scott, 3 AgEd....Granbury
Russell, D. L., 1 CM.....Temple
Russell, Edwin C., 1 ME....Corpus Christi
Russell, James S., 3 ME.....Fort Worth
Russell, Ralph W., 3 AgEd....Stephenville
Russell, W. A., 2 PetE.....Kilgore
Russell, Wendell H., 1 PetE.....Cisco
Rust, Jack C., 1 ME.....Dallas
Rutan, Joe Lynn, 2 ME....Shreveport, La.
Rutherford, James A., 2 AA.....Greenville
Rutherford, Wilson M., 1 Agr.....Howe
Rutledge, Samuel S., 4 AgEng....Floydada
Ryan, John H., 4 AgEng.....McQueeney
Ryan, Key Wesley, 1 ME.....Eagle Pass
Sada, Enrique, 1 Agr..Mexico City, Mexico
Sadler, William Owen, 1 VM.....Moss Point, Mississippi
Sadler, Walter W., 3 VM....College Station
Saegert, Jesse Joe, 1 LA.....Seguin
Safir, Jack, 2 PetE.....San• Antonio
Sakach, Stephen P., 2 Agr.....Bryan
Sakamoto, Seiichi, 3 Agr.....San Antonio
Saldana, Miguel, 3 ChE.....Laredo
Saldana, Oscar, 1 CE.....Laredo
Sale, Elbert B., 3 AA.....Stanton
Sall, Morton L., 1 Pre-Vet..Catskill, N. Y.
Salter, Richard D., 1 Agr.....Emhouse
Saltonstall, J. B., 1 LA....El Dorado, Ark.
Salzman, Joseph Henry, 2 AgEng.....Jourdanton
Sample, Bell, Jr., 3 EE.....Sample
Sample, Ernest L., 2 LA.....Bryan
Sanders, Bascom Lynn, Jr., 1 AA.....Corsicana
Sanders, Horace C., 1 LA.....Slaton
Sanders, John Henry, 2 LA.....Waskom
Sandidge, William J., 1 PetE.....Shreveport, Louisiana
Sandlin, Fred C., 1 EE.....San Angelo
Sanford, Charles G., 1 AgEng.....Timpson
San Miguel, Arthur Albert, 4 ME.....San Antonio
San Miguel, Rudolph R., 3 Arch.....San Antonio
Sapp, Pope C., 3 Sci.....Cameron
Sartor, Sam, 1 AgEng.....Goldsboro
Sasse, Bruce Eckhardt, 4 CE.....College Station
Sauer, Clemens Frank, 2 EE.....El Dorado
Saunders, Benjamin D., 1 AA.....Robstown
Sawyer, Louis V., 1 PetE.....Neches
Saxe, Merle Reid, 1 VM.....Bogata
Scales, Wallace W., 3 ChE....San Antonio
Scarborough, Homer P., Jr., 1 PetE.....Amarillo
Scarborough, John W., Jr., 1 PetE.....Kaufman
Schaefer, Nicholas J., Jr., 2 PetE.....Shreveport, Louisana
Schaefer, Russell Emmet, 1 PetE.....Schulenburg
Schaer, William K., 1 Agr.....Sealy
Schell, James H., 1 ChE.....Kirksville, Mo.
Schier, Clarence J., 3 AA.....Sealy
Schiller, Robert E., Jr., 1 ChE....Columbus
Schlafli, Alfred, 3 CE.....Seguin
Schlankey, Joseph L., 2 ChE.....Galveston

Schleicher, Frank C., 4 CE.....Victoria
Schlueter, Hudson J., 1 Agr.....Austin
Schmaltz, William H., 2 Agr.....West
Schmidt, August Max, Jr., 3 Agr..Gregory
Schmidt, Earl August, 1 CE....Fort Worth
Schmidt, Hilton Arthur, 1 Pre-Vet..Seguin
Schmidt, William Adam, 1 Agr....Gregory
Schmucker, Charles L., 1 AgEd..Hamshire
Schnable, Albert O., 1 LA.....Dallas
Schneider, Carl C., 1 CE.....Fort Worth
Schoenfeld, Perry C., 3 GE....San Antonio
Scholle, Carl H., 3 VM.....Dallas
Schorp, Weldon L., 1 AgEng.....Pearsall
Schott, Francis J., 4 VM.....Nacogdoches
Schramm, Harry B., 4 PetE..Wichita Falls
Schraub, Lester, P., 3 CE.....Seguin
Schraub, Malford Charles, 3 CE.....Seguin
Schroeder, Bruno Erwin, 2 LA....Lockhart
Schroeter, Arthur W., 3 AA....Marble Falls
Schulte, Otto John, 2 Agr.....Brenham
Schulte, William B., Jr., 1 PetE....Houston
Schultis, Emanuel H., 4 AgEng..Harlingen
Schultz, Frank W., 3 AA.....Bryan
Schultz, John Fred, 4 LA.....Anahuac
Schurba, Pete Anthony, 2 Sci.....Dallas
Schutte, Henry J., Jr., 3 EE.....Houston
Schutz, Albert D., 1 PetE.....San Antonio
Schutz, Charles D., 1 PetE....San Antonio
Schwab, Carl Milton, 2 PetE.....Sour Lake
Schwertner, Oscar B., 3 Agr....Schwertner
Scofield, James A., Jr., 1 Sci.....Bryan
Scoggins, Joseph W., 1 LA.....Carthage
Scott, Austin C., 1 AgEd.....Huffman
Scott, Benjamin L., 2 ChE.....Kaufman
Scott, Charbon B. F., 1 Agr.....Cushing
Scott, E. Owen, 1 PetE....Rio Grande City
Scott, Hugh L., 1 PetE.....Houston
Scott, Joseph Lemuel, 1 ME.....Wilson
Scott, Robert Allan, 2 Agr.....Olney
Scrivener, Willis A., 4 Agr.....Taft
Scruggs, Roy, 2 AgEd.....McGregor
Seabolt, Eugene Victor, 1 IE.....Bryan
Seago, Hughlen W., 2 Agr.....Gilmer
Seale, Fred E., Jr., 2 AA.....Chapel Hill
Sealy, Martin T., 2 Sci.....Houston
Seamons, Robert L., 2 Agr.....Chester
Searcy, John M., 1 AgEng.....Beckville
Sears, Homer L., 2 Agr.....Bells
Seay, Edgar W., 1 Agr.....Waxahachie
Seay, Lewis E., 2 VM.....Mt. Vernon
Seay, M. D., 2 AgEd.....Otey
Seay, Thomas Howard, 1 Agr.....Harrold
Sebesta, Edmund E., 3 VM.....Bellville
Sebesta, Ernest E., 1 AgEd.....Snook
Sebesta, John J., 1 ChE.....Lyons
Sebesta, Olvin F., 3 PetE.....Bellville
See, Ervin Otto, 1 ChE.....Lyons
See, John B., 2 ChE.....Lyons
Seewald, Philip L., 1 ME.....Amarillo
Seibert, Eugene R., 2 PetE.....Gladewater
Seitz, George Leroy, 1 AgEd.....Wingate
Sells, James C., 4 Agr.....Ector
Selman, William E., 2 Agr.....Eden
Sembora, Thomas Ervin, 3 ME.....Bryan
Senning, Robert Conrad, 1 ChE.....Dallas
Sentz, Norwood L., 1 Arch.....San Antonio
Seward, Clay L., 2 GE.....Brenham
Seward, Oscar A., III, 2 Agr....Groesbeck
Sewell, Edward J., 1 LA.....Ranger
Shaddix, Kirby L., 1 AgEd.....Bryans Mill
Shalkop, William Tuckey, 1 Pre-Vet.....
.....Milford, Conn.
Shanks, William P., 1 AgEd.....Crockett
Shannon, James W., 2 VM....College Station
Sharbutt, Truett G., 1 Agr.....Overton
Sharp, James M., 1 Agr.....Chico
Sharp, Thomas Fred, 2 ME.....Chico
Shaw, J. Arnold, 1 PetE.....Henderson
Shea, Harry N., 4 AA.....College Station
Shehee, Henry T., III, 2 EE.....Terrell
Shelfer, John Henry, 1 CM.....Bryan
Shelton, Joe Robert, J., 2 Agr..Brownwood
Shelton, Walter K., 1 AA.....Dallas
Shepard, Neal D., 3 CE.....Texon
Sheperd, Allen S., 2 PetE.....Houston
Shepperson, John W., 4 AA....San Angelo
Sherrill, Francis Mack, 3 AA....Rocksprings
Sherrill, Roy L., Jr., 2 ME.....Temple
Shields, Marion A., 2 AgEd.....Neches
Shiels, Robert T., Jr., 1 EE.....Dallas
Shiflet, Vernon, 1 AgEd.....Bedias
Shipman, Roy M., 3 CE.....Three Rivers
Shipman, Shelton L., 1 PetE....Fort Worth
Shipp, Robert D., 4 Agr.....Burnet
Shockey, Jacob C., 2 AA.....Gilmer
Shook , Austin M., 3 PetE.....Arlington
Short, Ogden M., 2 AA.....Marshall
Short, Taylor Johnson, 1 Agr....Centerville
Shoultz, James C., Jr., 1 LA....Grapeland
Shropshire, James E., 1 PetE..Crystal City
Shroyer, John Victor, 1 Sci.....Palestine
Shroyer, Nathan W., 2 Agr.....Crockett
Shudde, Lee Joseph, 3 LA.....Houston
Shuffler, John Netzar, 2 EE.....Plano
Shuler, William H., 2 AA.....Snyder
Shults, Thomas N., 4 AA.....Cuero
Sibeck, Leonard G., 1 Arch Eng.....
.....Little Rock, Arkansas
Sibley, McFerrin C., 2 AA.....Toyah
Siderius, Lloyd G., 2 PetE.....San Benito
Sien, Albert C., Jr., 4 AA....San Antonio
Sierra, Carlos L., 4 EE..Mexico City, Mex.
Sikes, L. B. T., 2 RE.....Leonard
Sikes, Robert E., 1 EE.....Bryan
Silbert, Isadoro M., 1 AA.....Waco
Silverman, David L., 1 PetE.....Longview
Silverstone, Harry D., 1 Agr.....Beaumont
Silvey, Fred Joseph, 4 LA.....San Antonio
Silvey, John Oscar, 4 EE....Colloge Station
Simmans, Robert W., Jr., 3 AgEd....Tolar
Simmon, B., Jr., 2 PetE.....Childress
Simmons, James Oscar, 1 AA.....Troy
Simmons, Lee Odell, 1 ME.....Van
Simmons, William W., 2 IE.....Sabinal
Simms, Marvin J., 4 Agr....College Station
Simms, Otho Monroe, 3 Sci.....Normangee
Simonpietri, Carlos G., 2 CE..Ponce, P. R.
Simpson, Clarence E., Jr., 2 ChE.....Tyler
Simpson, Donald Pierson, 1 Arch.....Texon
Simpson, Radcliffe S., 1 CE..San Antonio
Simpson, Troy C., 1 PetE.....Coleman
Simpson, Willard, E., 3 CE....San Antonio
Sims, Marion W., 3 ME.....Denton
Sims, Sidney, P., 1 Sci.....Woodville
Singletary, Giles, 1 Agr.....Center
Singletary, George Frederick, 2 PetE.....
.....Bryan
Singleton, Jack R., 3 LA.....Houston
Sitomer, Hyman, 2 VM.....
.....Woodbourne, New York
Skaggs, Jack Allen, 3 ChE.....Plano
Skelly, Charles A., Jr., 1 ME..Rosita, Mex.
Skrla, Dick, 3 CE.....Ganada
Slack, Leslie Irving, 1 Agr.....Lufkin
Slack, Richard C., 3 PetE.....Presidio
Slaglę, Lucian E., 2 EE.....Hearne
Slaton, Bill T., 1 ME.....Dallas
Slaughter, Henry L., 2 Agr.....Edgewood
Slaughter, Joseph C., 2 Sci.....Bryan
Slay, Iris J., 1 PetE.....Liberty
Slay, Malcolm, 1 AgEd.....Rosebud
Slimp, Chester A., 3 AA.....San Antonio
Sloan, William H., 4 CE.....San Benito
Slovick, Walter Arnold, 2 LA.....Houston
Small, William W., 2 ChE.....El Paso
Smart, John E., 2 ME.....Parsons, Kansas

Smith, Avery W., 2 ME....Sulphur Springs
Smith, Brandon C., 1 PetE.....Electra
Smith, B. Lee, 2 ME.....Houston
Smith, Bob S., 3 AgEng.....Killeen
Smith, Darrell, 2 PetE.....Loft
Smith, Everett L., 4 PetE.....Overton
Smith, Foster C., 4 Agr.....Blanco
Smith, Freeman C., 1 AA.....Menard
Smith, Fred L., Jr., 3 Sci.....Houston
Smith, Forrest M., 4 Agr.....Clarksville
Smith, Gipson, 4 AA.....Waco
Smith, George E., 2 ME.....Galveston
Smith, Guy Elmo, 1 ME.....Bryan
Smith, Garrison P., 1 ChE.....Houston
Smith, George William, 1 ME.....Dallas
Smith, George Wilson, 1 LA.....Memphis
Smith, Howard Cleave, Jr., 1 PetE..El Paso
Smith, Herbert Everitt, 1 Agr..San Angelo
Smith, James Clifton, 2 Agr.....San Saba
Smith, Joseph Carruth, 4 Sci.....Dallas
Smith, John Douglass, 4 PetE.....Houston
Smith, James Edward, 2 PetE.....New Braunfels
Smith, Joe Ellis, 2 AA.....San Benito
Smith, James Richard, 4 AA.....Menard
Smith, J. W., 1 AA.....Wills Point
Smith, Kelley, 1 Arch.....Austin
Smith, Kenneth D., 3 Sci.....Port Arthur
Smith, Lawrence Gilbert, 2 VM.....Goldengate, Illinois
Smith, Lloyd Newton, 3 AA.....Yorktown
Smith, Merrill, 1 EE.....Lockhart
Smith, Marvin Judson, 2 AA.....Sonora
Smith, Niley Judson, 3 Agr.....Cameron
Smith, Omar, 2 LA.....San Antonio
Smith, Robert Alfred, 1 ChE.....Denton
Smith, Robert Carl, 3 ME.....Longview
Smith, Roy E., 3 LA.....Cradall
Smith, Robert Neal, 2 ME.....Weslaco
Smith, Sidney Burton, 3 LA..College Station
Smith, Sam Christopher, 1 ME..Weatherford
Smith, Tanner Clay, 2 Agr.....Rule
Smith, Tracy Eldridge, 1 ME.....Corsicana
Smith, Turman Noah, 1 ME..San Antonio
Smith, Vern Allen, 1 ME.....Houston
Smith, Vernon Seymour, 1 ArchEng..Dallas
Smith, William Cagle, 4 ME.....Kilgore
Smith, William Henry, 2 Arch.....Waco
Smith, William Patton, 1 EE..San Benito
Smyth, Joe Gregory, 4 Arch.....Uvalde
Smyth, Needham Byron, 1 Arch.....Uvalde
Snell, David Munro, 3 CE.....Dallas
Snelling, Edward J., 1 Arch.....Rusk
Snowden, William Solon, 1 PetE.....Corpus Christi
Snuggs, Roland Edward, 4 AA.....Bryan
Snydellar, Nicolaas Adrianus, 1 ME.....Mexico City, Mexico
Snyder, Robert Dudley, 4 PetE.....Dallas
Solana, Alejandro Rivero, 1 CM.....Mexico City, Mexico
Sommers, Frederick Edward, 1 EE.....San Antonio
Sommers, Lee Marion, 4 EE..San Antonio
Sonnier, Saul, 2 Agr.....Beaumont
Sonnier, Wallace Joseph, 1 Pre-Vet.....Scott, Louisiana
Sorenson, Harold V., 1 CE.....Dallas
Sory, Carl Gerlach, 4 PetE.....Livingston
Sosolik, Frank Joe, 1 EE.....Bryan
Sowell, Edward Neal, 1 ME.....Elgin
Sowell, Joseph Curtis, 1 PetE..San Antonio
Spangler, John Henry, Jr., 1 AA..Lometa
Sparks, Richard Edgar, 1 AA.....Ysleta
Sparks, Samuel Swift, 4 AA.....Paradise
Spaugh, Paul, 2 AA.....Mart
Spears, Joalan, 4 PetE.....Bowie
Spears, Joe Brooks, 4 Ag Ed..Fort Worth
Speed, Robert James, 1 ME.....Shafter
Spelce, Carl Cooper, 4 AA.....Windom
Spencer, Bruce Nelson, 4 ChE.....Dallas
Spencer, Henry Cecil, Spec Arch.....College Station
Spencer, Robert Lee, 1 CM.....Mexia
Spencer, Roger Quarles, 3 CE.....Tyler
Spiller, Jamie Madison, 4 CE.....Canadian
Spiller, Kyle, Jr., 1 CE.....Jacksboro
Spitzer, Arnold H., 3 Agr.....Meridian
Spivey, James Sherwood, 4 AA.....Lufkin
Spoontz, Paul R. A., Jr., 1 Sci..Megargel
Sprague, Denton Elston, 4 Agr.....Tulia
Sprain, Louis A., Jr., 4 AgEd.....Wallis
Spreen, John Fred, 2 Agr.....Brenham
Sprott, Darrell Bernard, 3 VM.....Killeen
Spruiell, Lowell Lynn, 1 AgEd..Iowa Park
Stafford, Wallace Buxton, 1 VM.....Summerfield, N. C.
Stages, William Edward, 2 LA..Fort Worth
Staley, Jack Arlonso, 3 CE....Fort Worth
Stallings, Fred Allan, 2 Agr.....Moody
Stambaugh, Claude Kendall, 1 ChE..Seguin
Stanley, Elzy Emerson, 1 EE.....Naples
Stanley, James Douglass, 1 Sci....Kaufman
Stanley, Oliver Walton, Jr., 1 PetE..Waco
Stansell, John Audrey, 2 AA.....Mart
Stanton, William Lawrence, 2 PetE.....Houston
Staples, Bernice Goens, Jr., 1 PetE..Lindale
Staples, Edwin Anthony, 3 PetE.....Edna
Staples, Ercelle Horace, 4 CE.....Ennis
Staples, George Wilgus, 2 ME.....Houston
Stark, John Wayne, 2 LA.....Winters
Starling, Charles Albert, Jr., 1 AA.....San Juan
Starr, Lee Barkla, 2 ChE.....Mission
Statum, Cyril Mausell, 3 AA....Commanche
Staudt, Charles Edward, 3 Arch.....San Antonio
Stechman, Charles William, 1 ME.....Galveston
Steed, William Gary, 1 ChE.....Dallas
Steele, Durwood Herbert, 1 LA....Beaumont
Steele, James L., 4 EE.....Corpus Christi
Steen, Charles Alvin, 3 PetE.....Bryan
Steen, Elwyn Winget, 3 LA.....Bryan
Steffens, Karl Keller, 2 Agr.....Brady
Stein, Perry Donald, 2 VM....Passaic, N. J.
Steinfeldt, Eric Paul, 1 Sci..San Antonio
Steinkamp, Henry, Jr., 1 AgEng..Crawford
Stephen, Paul Lamar, 2 AA.....Strawn
Stephens, Chester Taber, 1 EE.....Alpine
Stephens, Ernest Emory, Jr., 1 AA.....Greenville
Stephens, Gordon Stuart, 2 PetE.....Waco
Stephens, Jack Howard, 1 LA..San Antonio
Stephens, Luke Cary, 4 Agr.....Paris
Stephens, Otis Gene, 1 LA....Wichita Falls
Stephens, Paul Whitten, 3 ArchEng..Temple
Stephens, Seidel Miles, 2 VM....Fort Worth
Stephens, William Henry, 2 ME.....San Antonio
Stephens, William Rourk, 1 Agr.....Mt. Pleasant
Stephenson, Ray Clifton, 1 AA....Bremond
Stephenson, Rupert C., 1 PetE.....Pelly
Stephenson, Woodrow Wilson, 3 Agr.....Fort Worth
Sterling, James Bennett, 2 AA.....Dayton
Stern, Henry W., 3 AA.....Rosenberg
Stern, Lonnie Henry, 2 GE.....Brenham
Steurer, George Edwin, 1 ME..San Antonio
Stevens, John Vance, 4 Agr.....Seymour
Stevens, Norvell Edward, 1 ArchEng.....Gilmer
Stevens, Thomas Dean, 1 ME....Jacksonville
Stevenson, Barney William, 1 PetE..Alvin

Stevenson, Fred Cockrell, 2 LA.....Abilene
Stevenson, John McAllister, 4 ME..Abilene
Stewart, Elmer Harold, 1 CE.....Leander
Stewart, Irwin Lewis, 1 ME....Benton, Ark.
Stewart, Joe Caswell, 1 Agr.....Sandy
Stewart, Justus Howard, 2 VM..Lewisville
Stewart, Lee L., 2 Agr.....Eddy
Stewart, Terrell Harvey, 3 Agr....Cresson
Stewart, William Junior, 1 Agr..Bryan Mill
Stiles, John Vernon, 1 Agr.....Thrall
Stiles, William Edmond, 2 PetE Houston
Stilwell, Henry Wesley, 4 AgEd..Texarkana
Stine, Joe C., 4 ME.....Beaumont
Stinson, Jack, 3 Agr.....Sanger
Stinson, Kenneth Eldred, 2 Agr....Paducah
Stockard, William Rufus, 1 Agr.....Frost
Stockton, William Nolan, 4 PetE..Kerrens
Stokes, William Luther, Jr., 4 AA.....
.....Bartlett
Stone, Charles Abner, 1 Agr.....Eddy
Stone, Nae J., 1 LA.....Wichita Falls
Stone, Robert Shirley, 1 CE.....Holland
Stone, Sidney Smith, 2 AA....Nacogdoches
Stoneham, Sebron Lloyd, 2 GE....Stoneham
Storms, Harvey H., 3 Agr.....San Marcos
Storms, Raymond Edwin, 4 PetE.....
.....San Antonio
Story, James Robert, 2 AgEng.....Alice
Stough, John R., 3 AgEd.....Corsicana
Stradinger, John, Jr., 4 ME.....Newgulf
Strange, John Paul, 4 EE.....Dallas
Strauch, Charles Lennard, 1 PetE.....
.....Normanna
Strauss, Harold Charles, 2 Agr....Bellville
Street, George Seth, 2 LA....San Antonio
Streicher, Wilhelm George, 3 AgEng.....
.....Seagoville
Stribling, Stanley Casner, 1 Agr.....Rotan
Strohacker, Louis George, 2 ME..Kerrville
Stropp, Wendell Keith, 3 AA.....Gilmer
Strother, Claud Paul, 1 ME....Port Arthur
Strother, Tom Billie, 3 IE.....Anna
Stroud, Walter Paschal, 1 ChE.....
.....Fort Smith, Ark.
Struwe, Robert Malcolm, 2 AA..Waxahachie
Stuart, Leslie Verry, 1 LA.....Harlingen
Stuart, Martin D., 1 AA.....Weslaco
Stubblefield, Harley, 1 AA.....Rosenberg
Stubbs, Jack J., 1 PetE.....Lockhart
Stufflebeme, J. W., 4 Agr.....Itasca
Stukenburg, John Darrell, 2 PetE.....
.....Ardmore, Oklahoma
Stulting, John Melvin, 4 LA.....Comfort
Sturdivant, Wilton Charles, 2 ChE.....
.....Brownwood
Sturkie, H. N., 2 VM.....Proctor
Stutts, Durward, Kenneth, 1 PetE..Luling
Sullivan, Edward Holden, 3 EE.....
.....Shreveport, La.
Sullivan, Walter Wallace, 1 PetE.....
.....Fort Worth
Summers, Elbert Joseph, Jr., 4 LA.....
.....Highland Park, Illinois
Summers, James Parkhurst, 2 VM.....
.....Erie, Pennsylvania
Surovik, William Louis, 1 ChE....Caldwell
Sutton, Charles Malcolm, 1 AA.....Belton
Swafford, Thomas W., 1 EE.....Ponder
Swan, Harris William, 3 EE.....Houston
Swanson, Jack F., 2 PetE.....San Antonio
Swanson, Leonard Raymond, 1 Agr.....
.....Houston
Swarthout, Carl Alvis, 4 EE.....Zavalla
Swarthout, Edward William, 2 Pre-Vet....
.....College Station
Sweeten, Donald W., 2 IE.....Lott
Swinney, Chesley Wiley, 1 ME....Laneville
Synott, Wilbur H., 2 PetE.....Houston
Syphrett, Bennett L., 2 AA.....Winnie
Tague, Morris F., 1 PetE.....Paducah, Ky.
Tait, Harold P., 1 Agr.....Laward
Takacs, Joseph E., 2 ME.....Houston
Talkington, John T., 4 AA.....Fort Worth
Tamargo, Emilio M., 2 ChE..Saltillo, Mex.
Tanner, Harry, 2 GE.....Columbus
Tanner, James William, 1 PetE.....
.....Wichita Falls
Tapal, Joseph John, 3 IE.....Fayetteville
Tarver, Jack H., 2 PetE....Shreveport, La.
Tarter, James B., 3 AA.....Perryton
Tarwater, S. L., 2 AgEd.....Caldwell
Tate, Charles William, 3 VM.....Giddings
Tate, Herbert C., 1 CE.....Kingsland
Tatum, Robert M., 1 AA.....Bryan
Taubert, James Edward, 1 PetE.....Tyler
Taylor, Andy J., 1 AA.....Eastland
Taylor, C. Alton, 2 AgEd.....Iola
Taylor, Charles C., 1 Sci....Corpus Christi
Taylor, Charley Scott, 2 AgEng..Normangee
Taylor, Ernest Earl, 1 PetE.....Victoria
Taylor, Harold Eugene, 2 AA.....
.....San Augustine
Taylor, Joe Samuel, 4 Agr....Ardmore, Okla.
Taylor, James W., 2 ME.....Taylor
Taylor, John Wilkey, 4 VM....San Angelo
Taylor, Luther Douglas, 2 PetE....Gilmer
Taylor, Thomas A., 2 LA.....Groesbeck
Taylor, William M., Jr., 3 Arch....Corsicana
Taylor, William R., 2 Agr.....North Zulch
Teaff, S. E., 2 CM.....Houston
Teal, Royal F., 2 Agr.....Jacksonville
Teissler, Robert B., 2 ChE.....Denison
Teller, Willis Albert, 2 ME.....Westhoff
Tercero, Jesus, 1 Sci.....Laredo
Termin, Dave, Jr., 3 AgEng.....Waco
Terrell, Frank Watson, 4 LA.....El Paso
Terrell, Lopaz H., 1 Agr.....Thornton
Terry, Homer Lee, 4 AA.....Tyler
Terry, Lloyd W., 1 Agr.....San Saba
Terry, Ray W., 1 ChE.....Cedar Bayou
Thacker, Edward Anthony, 2 AA.....
.....Mexico City, Mex.
Thaxton, John H., 1 VM....College Station
Thaxton, Tom, 1 Pre-Vet.....Cherokee
Therrell, Grover Demar, 1 LA....Marshall
Therrell, Pat Harrison, 1 AgEd....Marshall
Thieme, Clarence M., 2 Agr.....San Benito
Thistlewood, Kenneth Arthur, 1 PetE.....
.....Houston
Thomas, A. J., Jr., 2 AA.....Sherman
Thomas, Carol H., 3 AgEng.....Olney
Thomas, David James, 1 Sci....Gainesville
Thomas, E. C., 1 LA.....Vernon
Thomas, Earl F., 2 ChE....Sulphur Springs
Thomas, Edwin William, 2 VM....Gainesville
Thomas, Fred Clayton, 3 AgEng..Gainesville
Thomas, Frank L., Jr., 1 PetE.....
.....College Station
Thomas, Fred P., 3 Sci.....Houston
Thomas, George O., Jr., 3 VM.....
.....Ringgold, La.
Thomas, James Elliott, 3 LA.....Tom Bean
Thomas, John W., Jr., 1 PetE.....Cisco
Thomas, Lloyd, 4 AgEd.....Grandview
Thomas, Nathan G., 1 ChE.....
.....Holston Valley, Tenn.
Thomas, Ogden U., 1 PetE.....
.....Lake Charles, La.
Thomas, William D., 1 GE.....Gainesville
Thomas, Willard S., 2 Agr.....Weatherford
Thompson, Aubrey L., 4 Agr..Throckmorton
Thompson, Charles Oscar, 2 AA.....China
Thompson, Edwin C., 4 AgEd.....Killeen
Thompson, James C., 3 Agr.....Marfa
Thompson, John C., Jr., 1 Agr.....Haslet
Thompson, James Douglas, 1 AA....Dawson

Thompson, James Earl, 2 AA.....Amarillo
Thompson, James Neal, 1 EE.....Ravenna
Thompson, James Robert, 1 AgEd....Axtell
Thompson, James Robert, 2 Agr....Lovelady
Thompson, Lowell Edgar, 1 ChE....Saginaw
Thompson, Laile Hunter, 4 AA....Harlingen
Thompson, Marion Stockton, 1 Agr.....
.....Wills Point
Thompson, Ottie Clarence, 1 CM....Hubbard
Thompson, Roy DeWitt, Jr., 2 AgEng.....
.....Chillicothe
Thompson, Ralph Felton, 2 ChE.....
.....San Antonio
Thompson, Richard Franklin, 2 AgEd.....
.....Atlanta
Thompson, Sterlin N., 1 CE.....Temple
Thompson, Uel D., 3 AgEd....Waxahachie
Thompson, William A., 3 LA....Fort Brown
Thompson, Yale Elmer, 3 ME.....
.....College Station
Thorburn, George William, 2 AA.....
.....Wichita Falls
Thornton, Harold J., 1 GE.....Fort Worth
Thornton, Marvin I., 2 CE.....Groves
Thornton, Penrod, 2 ChE.....Gonzales
Threadgill, Walton Orville, 4 CE.....
.....Bellevue
Thrift, David Benjamin, 2 AA.....
.....San Antonio
Thurman, Robert Lee, 4 Agr.....Cisco
Tice, John Wesley, 2 PetE.....Dallas
Tierstein, Victor, 2 VM....College Station
Till, Raymond C., 3 AA.....La Feria
Tilley, Edward Nelson, 1 ME.....Mineola
Tilley, Eugene D., 3 AA.....Mineola
Tillson, George W., 1 Agr.....Mission
Timmerman, Bailey O., 2 LA.....Rockdale
Timmins, James Franklin, 1 CE.....
.....Waxahachie
Timms, Nathaniel J., Jr., 1 EE....Abilene
Tiner, Emmett L., 2 Agr.....Trent
Tipps, Eugene Fennell, 1 Sci.....Seguin
Tipton, Ralph L., 2 AA.....Jacksonville
Tisdale, Sherril A., 1 AA.....Coleman
Todd, Berger Eugene, 4 AgEd.....Beeville
Todd, Dick, 2 RE.....Crowell
Todd, Francis E., 1 AgEd.....Crowell
Todd, Fred T., 1 PetE.....Alice
Tohline, Max B., 4 ME.....Fort Worth
Toland, Albert D., Jr., 1 ME.....Taft
Tolbirt, Ruthven C., 1 Agr.....Columbus
Toledo, Jorge Nilo, 1 EE....San Juan, P. R.
Tolleson, Cecil Leslie, 2 ChE.....Texarkana
Tomek, John Albert, 1 PetE.....Houston
Tompkins, John E., 1 LA.....
.....Alancogondo, N. M.
Tompkins, John William, 3 Agr.....Kyle
Toombs, A. J. Lawrence, 4 ChE.....Dallas
Tooraen, Emeric W., 2 ChE.....
.....Alexandria, La.
Topletz, Harold M., 2 LA.....Dallas
Torn, Roland S., 3 Agr.....Taylor
Toro, Enrique, Jr., 1 Pre-Vet.....
.....San Juan, P. R.
Torrance, Roy E., 2 Agr.....Peacock
Torres, Jaime, 1 Agr.....San Juan, P. R.
Tosch, Robert Leslie, 2 EE.....Mesquite
Towns, Charles Francis, 1 Agr..San Antonio
Towns, James Philip, 1 PetE.....Gonzales
Trabue, William, 3 Sci.....Dallas
Trail, Charles D., 2 Agr.....Kaufman
Tramonte, Joseph J., 2 Agr.....Galveston
Trant, Robert Charles, 1 Pre-Vet....Bryan
Trapolino, Jerome Mike, 2 PetE....Houston
Trapolino, Sylvester L., 2 AA.....Houston
Trapp, Jim Sims, Jr., 2 ChE....Fort Worth
Treadaway, Wilson Argo, 1 Agr....Lindale
Treadwell, Ray Stephens, 1 Agr....Menard
Trew, Ernest Marion, Jr., 1 Agr.....
.....Wellington
Trimble, Aaron R., Jr., 2 Sci.....
.....San Springs, Okla.
Trimble, Harry Burt, 1 Arch.....Greenville
Trimble, Harold Fred, 1 AgEd....Lone Oak
Trimble, Jack, 1 Agr.....Greenville
Trimble, Robert D., Jr., 2 PetE....Greenville
Triplitt, Cecil Perry, 1 PetE.....Putnam
Tripp, Emmett W., Jr., 1 Agr....Megargel
Trostle, Robert B., 1 EE.....Shamrock
Trott, John Edward, 3 Sci.....Yoakum
Truitt, Leonard Llewellyn, 1 EE....Naples
Tucker, Boyd B., Jr., 1 Pre-Vet..Ft. Worth
Tucker, Elton E., 4 PetE.....Brownwood
Tucker, Joseph A., Spec Agr.....Keene
Tucker, Jack Wilson, 3 AA.....Burke
Tumlinson, Sam H., 2 AA....Raymondville
Turman, James Aubrey, 1 Agr....New Baden
Turman, Paul M., 3 VM.....Tyler
Turner, James, Jr., 1 PetE.....Van
Turner, John Wesley, 1 ChE.....Anahuac
Turner, Joe G., 3 VM.....Fort Davis
Turner, Thomas Thaddeus, 3 ME....Richards
Turner, William A., 2 Arch.....Crockett
Twining, Lawrence Everett, 3 EE.....
.....Fort Worth
Tynes, Walter Augustus, 4 GE.....Mabank
Tyra, William Harrison, 2 Agr.....Ysleta
Uhr, Clinton William, 3 AA....San Antonio
Underwood, C. W., 4 ME.....Denton
Underwood, Herbert A., 1 PetE....Plainview
Underwood, Hugh Stacy, 1 PetE....Rogers
Upchurch, Charles Oren, 2 PetE.....
.....Crystal City
Upshaw, Lloyd Donald, 3 ChE.....Luling
Upton, Allen Cordell, 1 ChE.....
.....Heldton, Okla.
Urbanovsky, Fred, 1 LA.....Caldwell
Usener, Victor, 1 LA.....Fredericksburg
Usey, James T., 1 PetE.....Port Arthur
Utay, Harold M., 1 TE.....Dallas
Utterback, Alvin Preston, 2 LA.....
.....Brackettville
Valdez, Leo, Jr., 1 ME.....San Antonio
Valentine, James H., 2 Agr.....Edgewood
Valentino, Ernest D., 2 Arch.....Houston
Van Atten, James Leroy, 3 PetE.....
.....Corpus Christi
Vance, James Emerson, 1 ME.....Bryan
Vandeventer, John H., 2 Sci.....Houston
Van Lear, Thomas Atkinson, 1 PetE.....
.....San Antonio
Van Slyke, John R., 2 PetE.....McKinney
Vanston, Henry Dale, 2 ChE.....Denison
Varner, Durwood B., 1 AA.....Cottonwood
Vaughan, Clifton Gragg, 1 ME.....Waskom
Vaughan, John Graham, Jr., 3 ChE..Dallas
Vaughn, Winfred E., 1 AA.....Vernon
Velasco, Rogue E., 1 AgEng.....
.....ElCano Gandera, P. I.
Veselka, Ervin Otto, 2 PetE.....
.....Corpus Christi
Vestal, Donald McKee, 4 ME.....Fort Worth
Viator, Alex Joseph, Jr., 1 PetE.....
.....Vinton, La.
Vincente, Harold Douglas, 1 Sci.....
.....Santurce, P. R.
Vick, Clarence C., Jr., 3 Agr.....Bryan
Vick, Carl Guy, 1 PetE.....Houma, La.
Vick, Jack Farquhar, 3 PetE.....Bryan
Vieman, Lewis D., 3 Agr.....Dickinson
Vinson, M. L., Jr., 1 CM.....Moscow
Vitek, Richard D., 3 AA.....Granger
Voelkel, Albert Earl, 4 AA....Fayetteville
Voelkel, Curtis Hayden, 2 PetE....Houston
Vogel, William Charles, 1 EE.....Dallas
Vogt, Ralph F., 3 EE.....San Antonio

Voliva, Elmer A., 1 ME.....Midland
Vollentine, Jesse W., Jr., 4 ME.....Gonzales
Volz, Heinz Henry, 1 LA.....Robstown
Voncannon, Curtis Alferd, 1 PetE.....Mont Belvieu
Von Roeder, George L., 3 Agr....Yorktown
Von Tress, Robert David, 1 LA.....Dallas
Voss, Thomas Edwin, 1 Agr.....Post
Wade, John Jacob, 1 EE.....Sherman
Wade, Robert C., 1 ME.....Brownsville
Wadhwani, L. H., 1 ME.....Hirabad, India
Waggoner, Franklin C., 1 PetE....Deer Park
Waggoner, Jack Nelson, 2 ChE.....Ranger
Waidhofer, Joe J., 2 Sci.....Galveston
Wainright, Charles Roy, 4 VM.....Tulsa, Oklahoma
Wakefield, Troy P., 3 Agr.....Madisonville
Walden, John R., 1 PetE.....Alvarado
Walker, Asa Lamar, 3 VM.....Crockett
Walker, Billy Fred, 1 EE.....Beaumont
Walker, Clarence A., 2 AA.....Tyler
Walker, Charles W., Jr., 3 ChE....Henderson
Walker, James Luther, 1 Agr.....Milano
Walker, James Meek, 1 Sci....Brownsville
Walker, Kirby H., 3 ME.....Laredo
Walker, Lewis C., 2 Agr.....Adamsville
Walker, Paul K., 4 Arch..College Station
Walker, Robert N., 1 PetE.....Saratoga
Walker, Woodrow, 4 AgEng.....Hico
Walker, Walter Hugh, 2 AgEd.....Dallas
Walker, William P., Jr., 1 ChE....Crosbyton
Walker, William Thomas, Jr., 1 Agr.....San Saba
Wall, James E., 1 ChE.....Grapevine
Wallace, Forbes Lee, 2 PetE.....Cisco
Wallace, James B., Jr., 2 ME.....Houston
Wallace, Milton David, 2 AA.....Houston
Wallace, Victor M., 3 AA.....Rockwall
Walles, Wade C., Jr., 2 PetE....Port Neches
Wallin, Daniel J., 3 AgEd.....Bryan
Walling, Herbert M., 4 Agr....Gainesville
Wallis, Homer E., 1 LA.....Melissa
Walls, Lloyd M., 3 PetE.....Seguin
Walstad, Jack H., 1 PetE.....Pampa
Walters, Bill D., 1 PetE.....Pecos
Walton, Ernest V., 4 AgEd....Stephenville
Walton, Thomas C., 4 AgEng.....Justin
Walton, Wilfred Winfield, 1 PetE.....Corsicana
Ward, Dennis J., 1 CM.....Dozier
Ward, David L., 2 PetE.....Harlingen
Ward, Drue S., 3 VM.....Valley View
Ward, Howard C., 2 Agr.....Lipan
Ward, Jeremiah, III, 4 EE.....Poteet
Ward, Roger Lee, 2 ChE.....Gladewater
Warden, Onis Creston, 1 RE.....Eastland
Warden, Thomas B., Jr., 1 CE.....Austin
Warne, Robert R., 1 PetE.....Goose Creek
Warner, Austin M., 1 LA.....Abilene
Warner, Edgar B., 1 CE.....Waco
Warner, George C., 4 Agr.....Abilene
Warren, Jesse Travis, 3 Agr.....Center
Warren, Lester C., 2 LA.....Center
Watanabe, Taro, 1 Agr.....Tokyo, Japan
Waters, Henry William, 1 ME..Montgomery
Waters, Philip Greene, 1 EE.....Houston
Watkins, Newt R., Jr., 2 AgEd....Rosebud
Watkins, Owen Milton, 2 PetE.....Houston
Watkins, Tarleton H., 1 LA.....Aberdeen Proving Grounds, Md.
Watley, James Daniel, 1 LA.....Mentone
Watson, Carl Russell, 2 VM.....Merkel
Watson, Douglas Henry, 1 AA.....Waco
Watson, Emmett O., 2 AgEd.....Monquez
Watson, F. Barto, 1 AgEd.....Ranger
Watson, Henry H., 1 CM.....Weslaco
Watson, William Anderson, 1 Sci..Kirbyville
Watson, Winifred C., 1 AgEd.....Rockwood
Watterson, Charles C., 1 Agr.....Bastrop
Wattigney, Walter Albert, 1 PetE.....College Station
Watts, Floyd B., 2 VM.....Gainesville
Watts, George Harold, 1 Agr.....Chester
Watts, William C., 1 Agr.....Chester
Weatherbee, Frank Loring, 2 PetE.....Galveston
Weatherbee, Harold O., 1 Pre-Vet..Galveston
Weatherby, Ab, 1 Agr.....Hillsboro
Weatherby, J. G., 1 Agr.....Hillsboro
Weatherly, Edward B., 1 Agr....San Antonio
Weatherbee, Lee Oland, 1 Agr.....Del Rio
Weaver, Roy S., Jr., 3 ME.....Navasota
Webb, Howard Harry, 1 ME.....Houston
Webb, William M., 1 AA.....Luling
Webber, Jack C., 2 ME.....Arp
Wedel, William Leo, 4 AgEng.....Heidenheimer
Wedemeyer, William C., 3 AgEd..Crockett
Wegenhoff, Victor C., 2 LA.....Rock Island
Wehrle, Leonard John, 1 AA..Wellman, Ia.
Wehner, Byrom T., 2 ME.....Del Rio
Wehner, Herman H., Jr., 2 EE.....Del Rio
Weir, Richard, 4 AgEd.....Timpson
Welch, Harold Clifton, 1 Sci....Sabine Pass
Wells, Clyde H., 3 Agr.....Stephenville
Wells, James D., 1 PetE.....Houston
Wendler, Charles C., 2 AA.....Boerne
Wenmohs, M. C., 2 CE.....Marble Falls
Wentworth, Earl, Jr., 2 EE.....Van Ormy
Werntz, Omar Gordon, 2 VM.....Glendale, California
Wessendorff, Joseph Clyde, 4 LA.....Richmond
Wessler, George H., Jr., 3 EE.....Arlington
West, Daniel Earl, 3 AA.....Overton
West, George William, 3 CE.....Anna
West, John R., 1 CE.....Dallas
West, Larkin E., 1 ChE.....Edinburg
West, Roland P., 2 GE.....Edinburg
Westbrook, James H., 4 AA.....Waco
Wester, Connor Curlee, 2 IE.....Gonzales
Westerman, Marl A., 2 AgEd.....Valley Springs
Westmoreland, William P., 4 AA..Lockhart
Weston, Ralph S., 2 VM.....Bryan
Wexler, Leon Edward, 2 AA.....Houston
Weydell, Angus T., 1 ME....Carrizo Springs
Whall, Clifford William, 2 EE.....San Juan, P. R.
Wheeler, George Walker, 1 ME.....Victoria
Wheeler, Lionel Harris, 1 PetE.....Houston
Wheelock, Robert Lloyd, 1 PetE....Corsicana
Whitaker, Joseph McSwain, Jr., 4 LA.....Long Branch
White, Byron M., 2 VM.....Kingsbury
White, Clarence M., 1 EE.....Beaumont
White, Cecil S., 3 Agr.....Corpus Christi
White, Everett F., Jr., 1 LA.....Dallas
White, Eugene M., Jr., 2 LA.....Corsicana
White, Grover Cleveland, Jr., 3 EE....Bryan
White, Harry Chester, 4 Agr.....College Station
White, Hammond Glenn, 1 EE....Harlingen
White, Howard S., 3 AA.....San Antonio
White, Jack Allen, 2 AA....Corpus Christi
White, Joseph J., Jr., 2 LA....New Boston
White, Joe Philip, 4 LA.....Bryan
White, Joe R., 1 EE.....Amarillo
White, Richard Edison, 3 ME.....Eastland
White, Richard R., 2 PetE....San Antonio
White, Vincent C., 2 PetE.....Amarillo
White, William C., 3 Sci.....Gladewater
Whitehill, David L., 2 ArchEng.....Wichita Falls
Whitehurst, Sanford H., 3 Agr.....Mesquite
Whitehurst, William C., 1 AgEd....Mesquite

Whitesides, John D., 3 ChE.....Caviness
Whitfield, John Thomas, 4 Agr.....Itasca
Whitley, Jim B., 3 EE.....Temple
Whorton, Edgar Harris, 2 AA.....Bryan
Wickenden, Aubrey G., 1 PetE....Overton
Widney, Harvey S., 4 VM.....Dallas
Wier, Robert F., 2 Sci.....Chapel Hill
Wiese, Willis Carl, 1 LA.....Tivoli
Wiggins, Harlan Russell, 1 VM.....Gothenburg, Neb.
Wiggs, John H., 2 Agr.....El Paso
Wilborn, Charles Lloyd, 1 Agr.....Eagle
Wilcox, Morris Allen, 1 Agr.....Bryan
Wilde, Edward Leonard, 1 Agr.....La Sara
Wiley, Paul Manning, 3 PetE.....Wheeler
Wiley, Robert A., 3 PetE.....Port Arthur
Wiley, Samuel R., 2 LA.....Houston
Wiley, Vernon C., 2 AgEng.....Houston
Wilk, Jake L., 1 PetE.....Houston
Wilkerson, James F., 1 AgEng....Henderson
Wilkins, Edwin L., 1 PetE....McComb, Miss.
Wilkins, John Thomas, 4 LA.....Franklin
Wilkinson, Albert Lee, 2 EE.....Sour Lake
Wilkinson, Clyde Edward, 1 AA....Laredo
Wilkinson, Charles McClure, 1 Agr..Menard
Wilkinson, Robert Z., 4 Agr.....Denton
Willard, Horace Randolph, 4 VM....Giddings
Willey, Claude Ray, 1 Pre-Vet....Shelbyville
Willey, Harold A., 1 PetE.....Rosenberg
Willey, Norman Bailey, 1 Agr..Mauriceville
Williams, Carl, 1 EE.....San Augustine
Williams, Charles A., 3 EE....San Antonio
Williams, C. B., Jr., 3 LA.....Amarillo
Williams, Charles E., 1 ME..Ardmore, Okla.
Williams, Don W., 3 AA.....Gilmer
Williams, Hugh R., 1 AA.....Smithville
Williams, Harry Wayne, 1 Agr.....Bryan
Williams, James A., Jr., 1 PetE.....Shreveport, La.
Williams, James C., 2 AgEd.....Mexia
Williams, John S., 1 AgEng.....Austin
Williams, J. T., 1 PPE.....Turnersville
Williams, Jack Vandervoort, 4 Agr.....Carrizo Springs
Williams, Kay Robert, 2 AA.....Panhandle
Williams, Luther B., 1 ME.....Hamlin
Williams, Louis H., 1 PetE.....Marlin
Williams, Morris Clifton, 3 AgEd.....Brownwood
Williams, Marion E., 1 PetE.....Conroe
Williams, Morris E., 1 AA..Sulphur Springs
Williams, Mick Gingles, 1 CM.....Amarillo
Williams, Metz Morriss, 1 ChE....McKinney
Williams, Maurice Robert, 4 EE....Edinburg
Williams, Richard D., 1 CE.....Houston
Williams, Robert Hayes, 1 AA.....Minden
Williams, Robert Joseph, 2 CM....Canutillo
Williams, Robert Murphy, 3 PetE.....Greenville
Williams, William P., 2 PetE.....Houston
Williamson, Joe, 1 ME.....Edinburg
Williamson, John Henry, 1 Sci....Henrietta
Williamson, Marion N., 4 AA.....Rochelle
Williford, James H., 3 AgEd.....Hasse
Willis, Nicholas W., Spec La.....Houston
Willke, Louis G., 4 ChE.....Boerne
Willmore, James H., 1 VM.....Bryan
Willoughby, Charles M., Jr., 1 Agr..Liberty
Willson, Houston C., 2 GE.....Cotulla
Willson, Howard Evan, 4 Agr.....Houston
Willson, Wirron Pedrick, 1 LA.....Dallas
Wilmeth, Lillard G., 3 AgEd.....Ebony
Wilsford, Robert Lewis, 1 Sci.....Denison
Wilson, Boyd Garland, 2 Agr.....El Paso
Wilson, Clarence A., 3 ME.....Luling
Wilson, Dan Gent, 2 AgEd.....Millsap
Wilson, Findley P., 3 PetE....Archer City
Wilson, Herbert Clay, 3 PetE....Groesbeck
Wilson, James E., 3 GE.....McKinney
Wilson, James Robert, 1 ChE....Gladewater
Wilson, Laurence Braxton, 1 Agr.....Leona
Wilson, Reece M., 3 Agr.....Crockett
Wilson, Riley M., 1 AgEd.....Waco
Wilson, Royce Lee, 4 AgEd.....Choice
Wilson, Thomas Benton, 4 ArchEng.....McKinney
Wilson, T. F., 4 TE.....Jacksonville
Wilson, William B., 1 AgEd.....Waco
Wiltshire, Eugene Martin, 1 EE..Kirbyville
Wimer, Charlton J., 2 EE.....San Antonio
Winder, Norman G., 3 CE.....Dallas
Windrow, Rollen Joe, 1 ME.....Dallas
Winkel, Raymond F., 1 Agr.....Llano
Winkelmann, Fred Adolph, 1 AA..Brenham
Winkler, Milton Joseph, 1 LA.....Houston
Winn, J. Sherrod, 2 AgEd.....Marquez
Winn, William Todd, 2 AgEd.....Marquez
Winstead, Charles D., 1 Agr....Weatherford
Winstein, George D., 2 VM.....Bridgeville, Pa.
Winston, John Marshall, 3 EE.....Houston
Wirtz, Isiaah G., 4 VM.....Sugarland
Wise, Barney S., Jr., 4 Agr.....Decatur
Wise, Herman Morris, 1 Agr.....Decatur
Wise, M. W., 4 Agr.....Boyd
Wise, Whitby Foster, 2 LA.....Dallas
Wisenbaker, Glenn G., 2 Agr.....Elizabeth, La.
Wisenbaker, Royce E., 2 AgEng....Mineola
Witchell, Arthur S., Jr., 2 ChE.....San Antonio
Witkowski, Leo Victor, 4 Agr.....Plainview
Wittbecker, Henry George, Jr., 1 AA.....Brenham
Wizig, Bernard, 1 ChE.....Waco
Wofford, Paul Oscar, 2 AA.....Arlington
Wofford, William Dempsey, 1 LA....Edna
Wohlfarth, Louis Leonhardt, 1 EE.....Oklahoma City, Okla.
Wolcott, Leo Frederick, Jr., 4 AA....Ysleta
Wolford, John Lane, 1 AA.....Washington, D. C.
Womack, Glenn Edwin, 3 AgEd.....Bryan
Womack, Howard Richmond, 1 ChE..Lufkin
Womble, Judson Carey, 1 ChE.....Caldwell
Womack, Charles Q., 1 AgEd.....Naples
Wommach, Leland Archie, 1 AgEd..Naples
Wommack, Max Ray, 2 AgEd.....Naples
Wood, Alvin, 2 AA.....San Augustine
Wood, Charles Edwin, 1 EE.....Ennis
Wood, Clayton Flaner, 3 Agr.....Sadler
Wood, Frank M., Jr., 1 Agr....San Angelo
Wood, Gilbert Luval, 2 Agr.....Dripping Springs
Wood, Jim Quinn, 3 ChE.....Navasota
Wood, John Randolph, 1 AgEng.....Brownwood
Wood, John Wright, 2 ME.....Milford
Woodruff, Charles William, 4 EE.....Fort Worth
Woodruff, Dennis Hawkins, 2 Agr.....Gainesville
Woods, Charles P., 1 ME.....Dallas
Woods, Jasper Earl, 2 ChE.....Ranger
Woods, Valton Bernard, 2 Agr.....Marquez
Woodward, Walter Kelso, 1 CE.....Nacogdoches
Woodworth, William Corlis, 1 EE.....Omaha, Neb.
Woodworth, William Leonard, 1 ME.....Orange
Woolford, William Wallace, III, 1 ChE....Galveston
Woolley, John Burleson Richard, 1 LA.....San Antonio
Word, Harry Garrett, 1 Sci.....Alice

Word, McGehee, 3 PetE.....Alice
Worley, Cleon M., Jr., 2 ME.....Shreveport, La.
Worrell, Maurice Eugene, Jr., 2 CE....Austin
Worthington, Robert Irvin, 2 AgEd.....Caldwell
Worthy, James Elbert, 1 PetE.....Wichita Falls
Wray, Beswick, 2 CE.....San Antonio
Wray, Henry Otway, Jr., 1 LA....Texas City
Wright, Ely William, 2 CE.....San Angelo
Wright, Harris Willit, 1 AgEd.....Dublin
Wright, Joe S., 1 Agr.....Leonard
Wright, Roy M., 2 Agr.....Eddy
Wright, William Cecil, 1 Sci....Pleasanton
Wyatt, Bruce F., 4 AgEd.....James
Wurzbach, Reagan Keith, 1 ME.....San Antonio
Wylie, John Colvis, 1 Arch.....Rochester, Minn.
Wynn, Ward William, 1 GE.....Charlotte
Yeager, Joseph O'Brien, 1 AA.....Hebbronville
Yarbrough, Durward Bundy, 2 Agr.....Lindale
Yardley, Doyle R., 4 AgEd.....Lingleville
Yardley, James Thomas, Jr., 3 ME.....Port Arthur
Yates, Jack, 2 PetE.....Dallas
Yates, William George, 2 LA.....Temple
Yeary, Walter Raleigh, Jr., 1 ME....Denton
Yeates, Charles Harvey, 1 AgEd....Jasper
Yezak, Herman Robert, 3 Agr.....Bremond
Young, Colquitt F., 3 VM.....Marshall
Young, Gail, 1 PetE.....Shamrock
Young, H. A., Jr., 1 CE.....Texon
Young, John Garland, 2 AA.....Lockhart
Young, James Tilden, 2 ChE....Wellington
Young, Joe Weldon, 4 AgEd.....Paducah
Young, John Wesley, 2 AA.....Greenville
Young, Olympus, 2 CE.....Waco
Young, Paul Russell, 2 AA.....Waskom
Young, Roy, 2 Sci.....Port Arthur
Young, Walter C., 2 AA.....Palestine
Younger, John Frank, 4 ChE....McKinney
Yowell, John D., 1 AA.....Dallas
Yust, Charles Sanborn, 3 ME.....Batson
Yust, Robert Louis, 1 PetE.....Batson
Zabcik, Edwin James, 3 AgEng.....Rogers
Zahn, Charles Willard, 1 Pre-Vet.....Dallas
Zajicek, Raimond Lewis, 1 AgEd....Holland
Zeigler, Robert E., 4 Agr.....Kilgore
Zeiss, Lawrence Miller, 2 ChE.....Brenham
Zeissel, Philip Adolph, 1 LA.....Munday
Zellers, Edgar George, 1 Pre-Vet.....Reading, Pa.
Zelman, Norman Irving, 2 AA.....El Paso
Zercher, John Cullom, 1 ChE.....Dallas
Zesch, Francis Eugene, 1 Agr.....Mason
Zich, John Henry, 4 AgEng.....Needville
Ziegenhals, Oscar Wallace, 1 PetE.....Bay City
Zinke, Ernest Clarence, 4 Sci.....Galveston
Zlotnick, Albert Morris, 2 Pre-Vet....Dallas
Zuehl, Edgar H., 1 Agr.....La Vernia

SUMMARY OF ENROLLMENT, REGULAR SESSION, 1936-37

(Excluding short courses and extension courses)

By States and Foreign Countries

Texas	4088	New York	15
Alabama	2	North Carolina	1
Arizona	1	Ohio	2
Arkansas	20	Oklahoma	25
California	6	Pennsylvania	6
Colorado	1	Rhode Island	2
Connecticut	2	South Carolina	2
District of Columbia	5	South Dakota	1
Florida	3	Tennessee	3
Idaho	1	Virginia	3
Illinois	8	West Virginia	2
Indiana	3	Wisconsin	2
Iowa	4	China	4
Kansas	4	Cuba	3
Kentucky	3	Greece	1
Louisiana	64	Honduras	2
Maryland	2	India	1
Massachusetts	2	Japan	2
Minnesota	1	Mexico	31
Mississippi	3	Palestine	1
Missouri	7	Panama	1
Nebraska	3	Phillipines	1
New Jersey	1	Puerto Rico	14
New Mexico	1	TOTAL	4360

SUMMER SESSION OF 1936

c—College
cc—Cotton Classing

Abernathy, Arthur Henry, Jr., c ..... Monterrey, Mexico
Adair, Dorothy Colmary, c .. College Station
Adams, George Barton, c ..... Bryan
Adams, Harold Irving, c ..... Waco
Adams, Horace Lee, c ..... La Feria
Adams, I. R., c ..... Comanche
Adams, John Charles, c ..... Bryan
Addison, Mrs. Christine, c .. Plantersville
Addison, James Morris, c ..... Thrall
Aiken, William Hamblen, c ..... Salado
Albrecht, William Charles, Jr., c .. Yoakum
Aldrich, Johnnie L., c ..... Temple
Alexander, James Young, c ..... College Station
Allen, Benjamin A., c ..... Millican
Allen, Carroll E., c ..... Bertram
Allen, Clifford M., c ..... Eastland
Allen, Frank A., c ..... Grulla
Allen, John G., c ..... Prairie Hill
Allen, Luris Porter, c ..... Gilmer
Allen, Nat Burtis, Jr., c ..... Bryan
Allen, Richard K., c ..... College Station
Allison, Albert Lewis, c ..... Paradise
Amend, W. Scott, c ..... Hereford
Ammons, Estle Gordon, c .. College Station
Amy, Octavio Felipe, c ..... Ponce, Puerto Rico
Anderson, Curtis Andrew, c ..... Batson
Anderson, John J., c .. Leesville, Louisiana
Anderson, Paul W., c ..... Marshall
Anderson, Robert Hicks, c .... Stephenville
Andrews, Theo Henderson, c ..... Caldwell
Andrews, Zetta Marie, c ..... Bryan
Andricks, Reynolds Louis, c .... San Antonio
Appelt, Osborne West, c ..... Gonzales
Arcularius, Harry Robert, c ..... Bryan
Armstrong, Donovan Robinson, c ..... Texarkana
Arneson, Edwin P., Jr., c .... San Antonio
Arrant, Millie Rue, c ..... Normangee
Arsuaga, Alfonso, c .. Caguas, Puerto Rico
Aschbacher, Charles Frederick, c ..... Hallettsville
Ashby, Clarence, c ..... Dalhart
Ashley, Howard, c ..... San Antonio
Aston, Herbert Percy, c ..... Farmersville
Atkins, Claude James, c .. College Station
Atkins, James Victor, c .... Mauriceville
Atkinson, Charles Wallace, c ..... Houston
Bacon, Hazel, c ..... Bryan
Baggett, Roosevelt T., c .... College Station
Baggett, William Ramsey, c ..... Ozona
Bailey, Andrea Pernie, c ..... Ballinger
Bailey, Edward Jack, c ..... Cotulla
Bailey, R. M., c ..... Houston
Bain, Douglas C., c ..... College Station
Baker, Alva Otto, c ..... Comstock
Ballerstedt, Richard Herman, c .... Bryan
Balthis, Russell F., c ..... Kirbyville
Banks, Clayton Charles, cc ..... Haskell
Barber, Willard G., c ..... Conroe
Barker, Wade W., c ..... Taylor
Bartlett, Elizabeth C., c ..... Hearne
Barnes, Arcie Elonzo, c ..... Valley View
Barnes, George W., Jr., c ..... Bryan
Barnes, Norval J. T., c ....Rosebud
Barnes, Robbie David, c ..... Brenham
Barnes, William D., c ..... Port Arthur
Barron, R. Lano, c ..... Cayuga
Barron, Yonia Bell, c ..... Cayuga
Bartholomew, William F., cc .... Brownwood
Bartlett, Ernest Elson, c ..... San Antonio
Barton, Jerry Curtis, c ..... Abilene
Barton, Jimmie Wilson, c ..... Temple
Barton, Ralph, c ..... Cisco
Basse, Wallace Frazier, c .. College Station
Bates, Arthur Lee, c ..... Dallas
Bateson, Edwin Paul, c ..... Cleburne
Batjer, Joseph Harris, c ..... Houston
Batts, Joseph Woodyard, Jr., c .... Bryan
Baugh, Charles Robert, c ..... Pauls Valley, Oklahoma
Baugh, James Harold, c ..... Temple
Bayless, Frederick Black, c ..... Houston
Baylor, Raymond Vreeland, Jr., c ..... Anahuac
Beal, Joseph F., c ..... Wharton
Bean, John Thomas, c ..... Whitewright
Beasley, William A., c ..... Greenville
Bebout, Harley, c ..... Beaumont
Beck, Eugene D., cc ..... Alice
Becka, John C., c ..... Temple
Becka, Mildred Joan, c ..... Temple
Beene, Jesse Herman, c ..... Comanche
Beeson, George Thompson, c ..... Paradise
Belinsky, Joseph, c ..... Bryan
Bell, H. C., c ..... Caldwell
Bell, John Payne, c ..... Houston
Bell, Thomas Burke, c ..... Bryan
Bell, William Thomas, c ..... Jasper
Beneke, Milton Nelson, c ..... Houston
Bennett, Horace Hudson, c ..... Decatur
Benson, Billy Franklin, c ..... Gainesville
Benson, Fred Jacob, c ..... College Station
Benson, Mrs. Kathleen Bradford, c ..... Galveston
Bentley, George E., c ..... Dallas
Berg, Lothar Edward, c .... Fredericksburg
Berlocher, S. Harry, c ..... Houston
Berndt, Margurite Laura, c ..... Caldwell
Berryman, A. A. c ..... Hemphill
Berryman, Effie, c ..... Hemphill
Berryman, Myrtle Ruth, c ..... Hemphill
Best, J. A., c ..... Ratcliff
Bethany, Claude Melnotte, c ..... Bryan
Bewley, Frank, c ..... Sour Lake
Bills, James Hulen, c ..... Dawson
Birnbaum, Irvin Sanford, c .. San Antonio
Birnbaum, Joseph, c ..... San Antonio
Bischoff, Helmut Albert, c .. College Station
Bishop, Earle Raymon, c ..... Overton
Bishop, Fred Alden, c ..... Sinton
Bittle, George Thomas, c ..... Eastland
Black, George Lee, c ..... Waxahachie
Blackard, Fred, c ..... Talco
Blair, George B., c ..... Silverton
Blasingame, Jesse Joe, c ..... Ennis
Blaylock, Garland D.,c Fort Smith, Ark.
Blaylock, Ruby Thrasher, c ..... Fort Smith, Ark.
Blodgett, Robert Wayne, c ..... Wickett
Blumberg, Albert Asa, c .. College Station
Bohuslav, Edward Joe, c ..... Moulton
Bond, Edmond Van, Jr., c ..... Victoria
Boone, James Leroy, c ..... Beasley
Boone, Murray E., c ..... Navasota
Boswell, H. Kimes, c ..... Barry
Bouchard, Richard Allen, c ..... Austin
Boucher, Donat Joseph, c .. Lafayette, La.
Bowie, Robert G., c ..... El Paso
Bowles, Carey Edwin, c ..... Bryan
Boyd, Dixie, c ..... Denton
Boyd, William Knight, c ..... Amarillo
Braddey, William Lloyd, c .... Fort Worth
Bradley, George Victor, c ..... Dublin
Bradley, John P., c ..... San Antonio

Bradley, Lula Elizabeth, c ..... Holland
Bradley, Ralph, c ..... Stephenville
Bradley, Mrs. Ralph, c ..... Stephenville
Braly, H. C., c ..... Brady
Braly, Mrs. H. C., c ..... Brady
Brannen, Carl Andrew, c ..... Groveton
Brantley, James H., c ..... Corsicana
Braswell, D., Ernest, c ..... Dallas
Braunig, Fred Talley, c ..... Yorktown
Breaux, Fred Randolph, Jr., c .... Houston
Breeding, Luther Earl, c ..... McLean
Brehmer, Herbert, c ..... San Antonio
Brengle, Henry Irwin, c ..... Odem
Brewton, Harry, c ..... Hemphill
Brewton, Mabel Bright, c ..... Hemphill
Brod, Robert Nelson, c .... Corpus Christi
Brooks, George Henry, c ..... Austonio
Broussard, Paul D., c ..... Freeport
Browder, Edrie Wilson, c ..... Gause
Brown, Arthur King, c ..... Fort Worth
Brown, Charles Sumners, c ..... Mathis
Brown, Donald Henry, c ..... Decatur
Brown, Ewing Ernest, c .. College Station
Brown, Harry George, Jr., c .....
.....College Station
Brown, James Frank, c ..... Whitney
Brown, Jim Griffis, c ..... Waco
Brown, John M., c ..... Bryan
Brown, Jack Tyre, c ..... Luling
Brown, Miller French, c ..... Beaumont
Brown, Reese Weldon, c ..... Bremond
Brown, Thomas Markham, c ..... Houston
Brown, Walter Douglas, c ..... Beaumont
Browning, Merrell Doyle, c .. Eagle Lake
Bruckner, John, c ..... Chicago, Illinois
Brumleu, Mayne Lewis, c ..... Houston
Bryson, Bernard Glenn, c .....
..... Shreveport, Louisiana
Bryson, Charles Edward, c ..... Hamlin
Buchanan, Mrs. John S., c ..... Bryan
Buckley, Wilson Bane, c ..... Holland
Buckner, W. Pascal, c ..... Big Spring
Buford, William Ragsdale, c ..... Terrell
Buie, Davis Weaver, c ..... Gilmer
Buie, Elmer Louie, c ..... James
Buie, Robert Chalmers, c ..... Waxahachie
Buie, Tollie R., c ..... Gilmer
Bullock, Quentin Smith, c ..... Bryan
Bullock, Thomas Albert, c ..... Bryan
Bunting, William Davis, c ..... Bryan
Burch, George Riley, Jr., c .. Wichita Falls
Burda, Edward J., c ..... San Antonio
Burden, Robert David, c ..... Chester
Burk, Jack, c ..... Port Arthur
Burkhart, C. V., c ..... Beaumont
Burnett, William George, Jr., c .... Dallas
Burnham, D. R., c ..... Waco
Burns, John Frank, c ..... Tyler
Burrows, Glenn Milton, c ..... Vegg
Burton, Felix Johnathan, c .....
..... Carrizo Springs
Bush, Robert Ewell, c ..... Palestine
Bush, Rufus Harrison, c .... College Station
Butler, Limmie R., c ..... Overton
Butler, Weldon Collins, c ..... Saginaw
Butler, Willie Ligon, c ..... Fort Worth
Buttrill, Carrol Oliver, c ..... Port Arthur
Buttrill, Wilbur D., c ..... Denton
Byrd, Willie Murphy, c ..... Colorado
Cabaniss, Gordon, c ..... Mathis
Cade, Charles M., c ..... San Antonio
Caffrey, James Lenton, c ..... Cisco
Calhoun, Jack, c ..... Sherman
Calvert, Ted, c ..... Cushing
Calvin, Charles Burton, c ..... San Antonio
Campbell, Peggy, c ..... College Station
Campbell, Thomas, G., Jr., c San Antonio
Campbell, William Counsell, c .. Galveston
Canon, Mrs. D. C., c ..... Hearne
Canterbury, Samuel Luther, c .... Kilgore
Canuteson, Alvin C., c ..... Clifton
Carmichael, William R., c ..... Bryan
Carpenter, Albert Lewis, c ..... Bellville
Carrington, Sophronia, c ..... Bryan
Carroll, Jim Magill, c ..... Denton
Carroll, Robert Everett, c ..... Abilene
Carstens, Joe E., Jr., c ..... Houston
Carter, Claude Wesley, c ..... Novice
Carter, Hugo C., c ..... Luling
Carter, Herman M., c ..... Sterling
Caruthers, Edward B. B., c .....
..... South San Antonio
Castleberry, Edmond W., c ..... Paris
Cates, Shirley Lynn, c ..... Ben Wheeler
Caudle, Thomas Glenn, c ..... Cisco
Causseaux, Lettie Kate, c ..... Abilene
Cely, Jack Cleveland, c ..... Frankston
Cely, Tom Rogers, c ..... Frankston
Chambers, Kenneth, c ..... McKinney
Chambless, Rodney T., c ..... Madisonville
Chaney, J. Gerald, c ..... Bryan
Chapa, Emilio, cc ..... Delicas, Mexico
Chatmas, James C., c ..... Marlin
Chauvin, Philip Hale, c .. Little Rock, Ark.
Cherry, Tom D., c ..... Apple Springs
Chestnutt, Sam Denver, Jr., c .... Kenedy
Chevaillier, Lewis Beall, c ..... Marshall
Chiles, Frank Rhodes, Jr., c ..... Cotulla
Chism, Purvy Lee, c ..... Paris
Christian, Ben Emory, c ..... Claude
Christian, Bernard Gaston, c ..... Dallas
Chytil, Louis A., c ..... Edge
Clark, Everett C., c ..... Devers
Clark, Fred W., Jr., c ..... Van Horn
Clendenin, Cecil, c ..... Bluff Dale
Cleveland, Dale Powell, c ..... Granbury
Cline, Anne, c ..... Bryan
Cloudt, Frank Otis, c ..... Rocksprings
Clyburn, George L., c ..... Conroe
Cobb, Beatrix, c ..... Paducah
Cobb, Hulan, c ..... New Baden
Cochran, Chudleigh Ben, c .. San Antonio
Cochran, Woodrow Nash, c ..... Lufkin
Cocker, Austis Wynne, c ..... Troup
Cockrell, Joseph E., c ..... Dallas
Cody, James D., c ..... Fort Worth
Coffey, Murray B., c .... Richland Springs
Coffin, William Arthur, c ..... Mathis
Cole, Ross Hill, c ..... Eddy
Cole, Sunshine Alice, c ..... Bryan
Cole, Thomas E., c ..... College Station
Coleman, Paul H., c ..... Bonham
Collie, Robert Monroe, c ..... Pecos
Collier, Fred A., c ..... Giddings
Collier, Robert E., c ..... Abilene
Collins, William Denny, Jr., c .... Crockett
Compton, Joe W., Jr., c ..... Palestine
Compton, W. Z., c ..... Comanche
Connor, John Koyace, c ..... Hubbard
Cook, David Andrew, c ..... Waxahachie
Cook, Everett Earl, c ..... Bushland
Cook, Fern, c ..... College Station
Cook, John Murphy, c .....
..... Clemson, South Carolina
Cook, Thomas E., c ..... Gilmer
Cooke, Henry Clay, c ..... Dallas
Coon, Reagan Patterson, c ..... Wills Point
Cooper, James Bolton, c ..... Sidney
Coquet, Lucien James, c ..... Abilene
Corby, John William, c ..... Marquez
Cordell, William Daniel B., c .... Fort Worth
Corgey, Louis T., c ..... Wheelock
Corley, John, c ..... Terrell
Coston, John Borden, c ....Harlingen
Coston, Ocie, c ..... Winnsboro
Cousert, Alonzo Aubry, c ..... Rocksprings
Cousins, Sidney Ivan, c ..... Bryan
Cox, DeWitt Christopher, c ..... Tuscola

Cox, Daniel G., c ..... Wichita Falls
Cox, George Walter, c ..... San Antonio
Cox, N. A., c ..... Ralls
Cox, W. A., c ..... Alvord
Coyle, Emmanuel Francis, c ..... College Station
Cozart, William A., c ..... Abilene
Crabtree, Lloyd George, c ..... Daisetta
Craig, Bobby N., c ..... Panhandle
Cramer, Maurice Boyd, c ..... Pharr
Crenshaw, George Samuel, c ..... Bryan
Crews, Lloyd Inge, c ..... Trinidad
Criswell, Dallas Lupton, c ..... Calvert
Crouch, Leroy Wilson, c ..... Roanoke
Crow, Joe Boone, c ..... Waco
Crow, Lawrence Milton, c ..... Waco
Crow, Marion Odean, c ..... Milford
Cuffman, J. R., c ..... Allen
Culpepper, James Coleman, c .... Bremond
Cunningham, Joe A., c ..... Bryan
Cunningham, John Dave, c ..... Red Oak
Curlee, Onys Travis, c ..... Prairie Hill
Curlee, Mrs. O. T., c ..... Prairie Hill
Curry, Ivan M., c ..... Mart
Curry, William G., Jr., c ..... Wheelock
Dahl, Max G., c ..... Savanna, Illinois
Danner, Frank Leonard, c ..... Amarillo
Dansby, Durant Martelle, c ..... Bryan
Darnell, Frances Laurie, c ..... Bryan
Darrow, Thomas Stephen, c ..... Bryan
Daughtrey, Jewell, c ..... Colorado
Davenport, Seth Roger, c ..... Uvalde
Davidson, John King, c ..... Eagle Lake
Davis, Birdwell C., c ..... Beeville
Davis, C. T., Jr., c ..... Amarillo
Davis, Doyle Truitt, c ..... Ennis
Davis, Floyd Basil, c ..... George West
Davis, Thomas Birdwell, Jr., c Huntsville
Davis, Will Howsley, c ..... Throckmorton
Dawson, Aryles H., c ..... Tulia
Day, Ben Ro, c ..... Plainview
Day, James Earl, c ..... Dalhart
Dean, William Valentine, Jr., c San Saba
Dearing, Annie Mary, c ..... Bryan
Debenport, Bob, c ..... Fort Worth
Beckerd, Nannie W., c ..... Franklin
Deegan, Robert Donald, c .... San Antonio
Dees, Billy G., c ..... Kaufman
de la Mora, Raul, c .... Torreon, Mexico
Dempwolf, Edward Newton, c .... Cleburne
Denison, Jim S., c ..... La Grange
Denman, Thomas Edgar, c ..... De Leon
Denny, Otway Broad, c .. Shreveport, La.
Denson, Jesse Dean, c ..... Edinburg
Dershimer, John Edward, c .... San Antonio
Deshotels, Jesse Douglas, c ..... Gulf
Dibrell, Charles F., c ..... San Antonio
Dickson, Ray Esther, c ..... Spur
Dieb, John Mitchell, c ..... Fort Worth
Dillon, William Sheriden, c .... Longview
Doak, James W., c ..... San Angelo
Doane, John Stephen, c ..... Bryan
Dodd, Carlos Lester, c ..... Redwater
Dodge, John Hopkins, c ..... Beaumont
Donahue, Don P., c ..... Vernon
Donelson, Henry, c ..... Stanton
Dooley, Will Douglas, Jr., c ..... Iola
Doremus, Hal C., c ..... Stephenville
Dorman, Herschel Dodd, c ..... Orange
Dorsett, Theodore Monroe, c ..... Galveston
Dorsey, Julius William, c ..... Sunset
Dougherty, Charles Francis, Jr., c .. Kilgore
Douglass, Fred Joseph, c ..... Gainesville
Dowell, Aubrey Coy, c ..... Tabor
Doyle, C. E., c ..... Beaumont
Doyle, C. Ray, c ..... Wichita Falls
Draper, Charles N., c ..... Commerce
Driskill, Frank A., c ..... Crockett
Driskill, William Earl, c .... Galena Park
Dryman, Gertrude, c ..... New Baden
Duckworth, William Harrill, c .... Caldwell
Duhon, L. M., Jr., c ..... Victoria
Duke, Frank Robert, c ..... Livingston
Duke, Thomas Edny, c ..... Livingston
Dulaney, Fred A., Jr., c ..... Carthage
Dullnig, Adolph Clevelend, Jr., c ..... San Antonio
Dunnam, Joseph Arthur, c ..... Alden Bridge, Louisiana
Durham, James Jay, c ..... Van Horn
Durham, Sara Lee, c ..... Bryan
Dwiggins, J. B., c ..... Breckenridge
Dyer, Ben Floyd, c ..... Texarkana
Easley, G. P., Jr., c ..... Caldwell
Eaves, Curry Charles, c ..... Lubbock
Echols, Woodrow, c ..... Dallas
Edds, Glenn Cleveland, c .... Heidenheimer
Edds, George Tyson, c .... College Station
Edgar, Zeddie C., c ..... Stephenville
Edge, Milton Caryl, c ..... Bryan
Edmondson, Thomas Leonard, c .. San Saba
Edsall, Arthur Ben, c ..... Elbert
Edward, Hamp E., c ..... Mission
Edwards, Stacy W., c ..... Miles
Eeds, Carroll Dean, c ..... Lockhart
Ehlers, Edith Agatha, c ..... Austin
Elder, Erna, c ..... Karnes City
Elder, Robert M., c ..... Karnes City
Ellis, John Marion, c ..... Mt. Pleasant
Ellisor, Wilson, c ..... College Station
Elmore, Robert E., c ..... Fort Worth
Elrod, Henry Exall, Jr., c ..... Houston
Elsik, Hubert Johnnie, c ..... Snook
Emerson, Ralph W., c ..... Floresville
Emery, Duncan Macnab, c .. College Station
Engel, Godfrey, c ..... Albany
England, Thomas E., c ..... Donie
Epps, Loy Ray, c ..... Normangee
Erhard, Fred William, c ..... Austin
Erwin, Hugh Milton, c ..... Dallas
Eschenburg, Elwood Henry, c .... Shiner
Etter, Thomas Herbert, c ..... Vega
Ettle, Dorothy Louise, c ..... Bryan
Evans, Carroll Freeman, c ..... Overton
Evans, Harold T., c ..... Dallas
Evans, Jesse Weldon, c ..... Handley
Evans, John W., c ..... Bryan
Evans, Paul C., c ..... San Antonio
Ewing, John Donald, c ..... McAllen
Ewing, Ned Philip, c ..... McAllen
Fachorn, Sam Ned, c ..... Bryan
Fail, Welton Ruel, c ..... Marquez
Falke, Gilbert Clarence, c ..... Temple
Fannin, Casey C., c ..... Madisonville
Farquhar, James Thomas, c ..... Jonesboro
Farris, Lewis Charles, c ..... Madisonville
Fatherree, Hilliard Sidney, c .... Abilene
Faubies, Alfred Overton, c ..... Waco
Felts, Wallace Martin, c ..... Fort Worth
Fender, Ernest Leonard, c ..... Harlingen
Ferguson, John Gilbert, c .. Leesville, La.
Ferguson, Paul L., c ..... Wheelock
Ferguson, Virginia L., c ..... Wheelock
Fernandez, Roberto Simeon, c ..... Monterrey, Mexico
Fink, Carl, c ..... Kerrville
Finlay, Robert Jordan, c ..... Fife
Finley, James Herbert, c ..... Knox City
Fisherman, Frank, c ..... Big Sring
Fitzgerald, H. L., c ..... Caldwell
Fitzhugh, James Venable, c .... San Antonio
Flake, Henry John, Jr., c ..... Houston
Flanagan, Christopher John, c .... Houston
Floyd, Moore F., c ..... Lufkin
Foitik, Harold Horatio, cc ..... Flatonia
Foote, Daniel Avery, c ..... San Antonio
Ford, Seth M., c ..... Santa Anna
Forester, Oscar Franklin, c .... Smithville

Forrest, Caswell Underwood, c .... Dallas
Forsyth, Valoris Lawrence, c .. Fort Worth
Foster, Charles B., Jr., c .. College Station
Foster, Donald Sam, c ..... Bryan
Fowler, Earle Weldon, c ..... Bailey
Fox, Jesse Earle, c ..... Thorndale
Fox, Marshall D., c ..... San Saba
Franks, Lucile, c ..... Ridge
Frazier, Ruth White, c ..... Bryan
Frazier, William Harold, c ..... Farwell
Freeman, Lloyd Atmer, c ..... Bryan
French, Edwin Charles, c ..... El Paso
Friedmann, Clarence John, c .... Brownsville
Frost, James W., c ..... Bryans Mill
Fulgham, Bob W., c ..... Bryan
Fuller, Mary C., c ..... Bryan
Fulton, George Wesley, c ..... Waxahachie
Funderburgh, John W., c ..... McKinney
Furman, Irene, c ..... Millican
Gabrysch, Claude John, c ..... Millican
Gallaway, Frank David, c ..... Waco
Galloway, William H., c ..... Edinburg
Gandy, Charles Wilson, c ..... Bryan
Gandy, Maxena, c ..... Bryan
Gandy, Woodrow Wheeler, c ..... Bryan
Gardner, James Eldridge, c .... Stephenville
Gardner, William Howard, c ..... Carrizo Springs
Garner, Edwin C., c ..... Vernon
Garrett, Wayne Holmes, c ..... Fort Worth
Gaskell, Roy Lee, c ..... Dallas
Gee, Kirby Carson, c ..... Dublin
Gent, Chris Frank, c ..... Moody
Gentry, Porter C., c ..... Justin
George, Oscar, c ..... Belton
Gerloff, Otto A., c ..... Moody
Gholson, James, c ..... Del Rio
Gibbs, Donald Warren, c ..... Mabank
Gibbs, Fred Corbin, c ..... Madisonville
Gibson, Garvin Waylon, c Hughes Springs
Giesen, Bernard William, c New Braunfels
Gilbreath, Lois, c ..... Dublin
Gilchrist, Frank U., c ..... Jacksonville
Gililland, Lonnie A., c ..... St. Jo
Gilkey, John Allen, c ..... San Antonio
Gillespie, Andrew Jackson, c .... Alleyton
Gilmore, Bernard Benson, c .. Throckmorton
Gilmore, Horace D., c ..... Turnersville
Gilpin, Patricia, c, Greenwood, Mississippi
Gilreath, Vera Tops, c ..... Memphis
Glass, John Thomas, c ..... Kerens
Glass, Wicker Ira, c ..... Bryan
Glover, Joe Marian, c ..... Baird
Godfrey, Curtis L., c ..... Naples
Goforth, Hubert, c ..... Overton
Goforth, Morris, c ..... Overton
Golman, Philip, c ..... Dallas
Goodrum, Phil D., c ..... Trinity
Gorham, Harrison Drew, c ..... Cisco
Gorman, William Raymond, c ..... Italy
Gorzycki, Elizabeth Jane, c ..... Bryan
Gottwald, Norwood H., c ..... Harwood
Gough, H. E., c ..... College Station
Gough, Roy H., c ..... Gatesville
Graham, Daniel Woodrow, c .... Wills Point
Graham, S. Stanley, c ..... Huntsville
Granger, Carey Donald, c ..... San Antonio
Grant, Donald, c ..... Savanna, Illinois
Grantham, John Richard, Jr., c .. McGregor
Grasso, Warren Alwin, c .... San Antonio
Graves, William Doyle, c ..... Comyn
Gray, Joseph Thomas, c ..... Eastland
Green, Carl V., c ..... Hope, Arkansas
Greenberg, Samuel Mendel, c ..... Dallas
Greenway, James Henry, c .... Alexander
Greer, Lyndall Greer, c ..... Normangee
Gregg, Paul, c ..... College Station
Gregory, Luther W., c ..... Silsbee
Griffin, Jack Alex, c ..... Brenham
Griffin, Lula Enid, c ..... Bryan
Griffin, L. H., c ..... Hooks
Griffin, William Richard, Jr., c ..... San Angelo
Grimland, Charles Joseph, c ..... Waco
Grinter, Constance Louise, c ..... Bryan
Grist, Edgar Alfred, c ..... Austin
Guerra, Joe R., c ..... Carrizo Springs
Guest, Paul Lynn, c ..... Mercedes
Gump, James Frederick, c ..... Dallas
Gwin, William Arthur, c ..... Oenaville
Haas, John R., c ..... College Station
Hable, P. R., c ..... Corsicana
Haegelin, Albert A., c ..... Hondo
Hagen, R. B., c ..... College Station
Haines, Paul Graves, c ..... Waco
Haley, Jack Howard, cc ..... Dallas
Hall, Charles A., c ..... Houston
Hall, Charles Patrick, c ..... Dallas
Hall, Dan, c ..... Bryan
Hall, Robert Carl, c ..... Wichita Falls
Hall, V., c ..... Wichita Falls
Hallaner, R. H., c ..... Breckenridge
Hallman, Milous Virgel, c .... Buckholtz
Halton, Thomas Harrison, Jr., c .... Bryan
Hamner, Bennett B., c ..... Waco
Hamner, Francis Merrick, c ..... Healdton, Oklahoma
Hampton, Cecil Lewis, c ..... Brady
Hampton, Herbert Ellwood, c ..... Bryan
Haney, Frank, c ..... Victoria
Harden, Thaddeus E., c ..... Hamlin
Hardison, Tommie A., c ..... Vernon
Hardy, Edwin David, cc ..... New Waverly
Hardy, J. Richard, c ..... San Antonio
Hardy, Robert Louis, c ..... San Antonio
Hare, J. Malvin, c ..... Caldwell
Harrington, Virginia Elizabeth, c, Seguin
Harris, George Erwin, c ..... Brazoria
Harris, Glen H., c ..... Tuleta
Harris, James Dawson, c ..... Mineola
Harris, Lanier C., c ..... San Antonio
Harris, Ledyard Gwin, c .... San Angelo
Harris, Van Alexander, c ..... Elgin
Harris, V. M., c ..... Franklin
Harrison, Eugene Lee, c .....Bryan
Harrison, John Leslie, c ..... Shepherd
Harrison, Lawrence Carter, c ..... Dallas
Harrison, Neil B., c ..... Gilmer
Hartt, Dixie Dan, c ..... Crockett
Hassell, James Fletcher, c ..... Pioneer
Haviland, Stephen W., c ..... Groves
Hawkins, E. B., c ..... Amarillo
Hay, H. N., Jr., c ..... Waco
Hay, T. G., c ..... San Antonio
Hayes, Parker, Jr., c ..... Groesbeck
Haynes, Frank Petty, c ..... Granger
Heard, Corry W., c ..... Naples
Heard, L. P., c ..... Belton
Heaton, Cyrus Robert, c .... College Station
Heller, Joseph Henry, c ....San Antonio
Henry, Marvin Milton, c ..... Port Arthur
Henry, Sam S., c ..... Rocksprings
Henry, Tom J., c ..... College Station
Hensley, Charlie Jack, c. ..... Port Arthur
Henson, Thurman Franklin, c ..... Dublin
Heppard, Glenn Roland, c .... Port Arthur
Herring, Birdie Catherine, c ..... Bryan
Herrington, John A., c ..... Waxahachie
Herzik, Melvin C., c ..... La Grange
Hewitt, Clarence B., c ..... Groesbeck
Hewson, John Elmer, c ..... San Antonio
Hey, Joe A., c ..... College Station
Heyne, Daniel Henry, c ..... Glen Flora
Heyne, Mrs. D. H., c .... Fayetteville, N. C.
Hickman, Hector Harrison, c Rising Star
Hicks, J. B., c ..... Stephenville
Hicks, John Irvin, c ..... Orange
Higginbotham, James P., c ..... Mabank

Higgs, Margaret Trannie, c ..... Bryan
Hilburn, Paul W., c ..... Dublin
Hill, Carl Arvie, cc ..... College Station
Hill, Eurnice Mae, c ..... College Station
Hill, Gordon Coleman, c ..... Cleveland
Hill, Ralph Kelly, c ..... Telferner
Hill, Thomas Brady, c ..... Ballinger
Hillier, Charles Russell, c ..... Bryan
Hiner, Marvin Earl, c ..... Vernon
Hobgood, Price, c ..... Iredell
Hodge, Dexter Lawrence, c ..... Pledger
Hodges, Mack Bradford, c ..... Yoakum
Hoeffert, George John, c ..... Waco
Hoffer, Bates Lowry, Jr., c .... Midland
Hogan, A. J., c ..... Waco
Hogue, Clifford E., c ..... Denton
Holland, Zula L., c ..... College Station
Holleman, DeWitte Crowel, c .... Normangee
Holliday, Dan Weepy, c .. Henryetta, Okla.
Holliday, Edgar Eugene, cc ..... Elgin
Hollman, Henry Emil, cc .... Karnes City
Holloway, Ernest Robert, c .... Galveston
Holloway, Jack W., c ..... La Grange
Holmes, Billy Duncan, c ..... Bryan
Holmes, Ralph Conlon, c ..... El Paso
Hooker, Harry Rudyard, c ..... Carthage
Hooper, William Scoggin, c .... Brownwood
Hopman, U. C., c ..... Beasley
Hopper, John S., c ..... College Station
Horn, James Howard, c ..... Kirbyville
Horn, Noah, c ..... Lufkin
Horton, Cecil Ervin, c ..... Point
House, James Frank, c ..... Bridgeport
Hovorak, Ludwig Martin, c ..... Caldwell
Howard, Jess C., c ..... Center
Howell, D. W., cc ..... Bryan
Howell, Jennie June, c ..... Bryan
Hoyle, Orville Kent, c ..... Decatur
Hoyme, Kermit Helmer, c .. College Station
Hrdlicka, Edward Brandes, c .....
.....College Station
Huckert, Joe A., c ..... Hereford
Hudgins, Verneard W., c ..... Bryan
Hudson, Oliver Greer, c ..... Hearne
Huebner, Gilbert R., c ..... Breham.
Hughes, Charles Reynolds, c Long Branch
Hughes, James Coy, c ..... Palestine
Humbert, Robert Pierre, c .. College Station
Hunnicutt, William Robert, c ..... Bryan
Hunt, Haskell Howard, c ..... Bryan
Hunt, James Robert, c ..... Houston
Hurley, Fredda, c ..... New Baden
Hyatt, Clifford C., c ..... Bryan
Hyman, Edward S., c ..... Rosebud
Igo, Harry Clinton, c ..... Clarksville
Inman, S. C., cc ..... Llano
Irvin, Robert McNutt, c ..... Wallis
Irvine, Houston Noell, c ..... Fort Worth
Isenberg, Nathan Simon, c ....Galveston
Itschner, Bernard F., c ..... Elm Mott
Jackson, Alvin Ray, c ..... Coolidge
Jackson, De Harold, c ..... Midlothian
Jackson, Robert Lee, c .... College Station
Jacobs, Eugene Leo, c .. Norfolk, Virginia
James, Cecil Proctor, c ..... Waco
James, Frances Harriett, c ..... Bryan
James, James Webb, Jr., c ..... Bryan
James, Session S., c ..... Bryan
James, William W., c ..... Dallas
Jameson, Charles Reuben, c ..... Tatum
Jancik, Elizabeth, c ..... Caldwell
Jarrard, Newton E., c ..... Houston
Jaynes, Jay H., c ..... Marshall
Jenkins, J. B., Jr., c ..... Waxahachie
Jewett, Harry B., Jr., c ..... Houston
Johns, Herbert Theodore, c .... Floresville
Johns, Nooe William, c ..... Boerne
Johnson, Bernard Grover, c ..... Houston
Johnson, Carl John Bergwall, c La Marque
Johnson, Charles Morgan, c ..... Paris
Johnson, George Norris, c ..... Bryan
Johnson, George Whitfield, c ..... Bryan
Johnson, Robert Van, c ..... Dallas
Johnson, William Samuel, Jr., c .... Bryan
Johnston, Cecil A., c ..... Victoria
Jolly, James Clayton, c ..... Dallas
Jones, Brooks, c ..... Clint
Jones, Clayton Val, c ..... Blanco
Jones, Everett Eldon, c ..... Clyde
Jones, Harold B., c ..... New Baden
Jones, Herschel Voit, c .... College Station
Jones, Ivan Hardy, c ..... College Station
Jones, Jac, c ..... Calvert
Jones, Morris S., c ..... Dublin
Jones, Noble David, Jr., c ..... Dallas
Jones, Pearle K., c ..... Bryan
Jones, R. N., cc .... Madera, California
Jones, William Danridge Claiborne, c ....
..... Taft
Jordan, Hugh Edgar, c ..... Navasota
Josey, James Carlyle, c ..... Wharton
Judson, Lewis F., c ..... Tampico, Mexico
Kaden, Wilson Otto, c ..... Gainesville
Kallina, Henry Edward, c ..... Victoria
Karper, Edward Alan, c .... College Station
Karper, Robert Earl, c ..... College Station
Kay, Elwin McGuffie, c ..... Tyler
Keathley, George Dennis, c ..... Lamesa
Kelley, Henry, c ..... Paradise
Kendrick, Meredith B., c ..... Amarillo
Keng, Edward Burette, c ..... May
Kennedy, Tandy Richard, c ..... Groesbeck
Kerr, John C., c ..... Amarillo
Kessler, Ricardo, c .. Monterrey, Mexico
Kincannon, John Alvin, c ..... Bryan
King, James Cicero, c ..... Ennis
King, Ovid B., c ..... Bogata
Kirkpatrick, Annie H., c ..... Bremond
Kiser, Eugene Pickens, c ..... Kaufman
Kissman, Ernest Carl, c ..... Dime Box
Klauber, Harry, c ..... San Antonio
Knapp, Frederick Maedgen, c ..... Calvert
Knight, Cato Meloton, c ..... Clarksville
Koenig, Bertha Nell, c ..... Bryan
Koenig, Perier Arnold, c ..... Bryan
Kolodzey, Martin, c ..... Yorktown
Konecny, Frank J., c ..... Bryan
Krause, Berry Fritz, c ..... Beasley
Krause, Felix, c ..... Burlington
Krueger, Leo R., Jr., c ..... San Antonio
Kubin, Frank John, Jr., c ..... Bryan
Kyle, Ariel Wilson, c ..... Gause
Kyle, Robert Lewis, c ..... Carthage
Kypher, Albert Ernest, cc ..... Seguin
Lacey, Edward, c ..... Angola, Indiana
LaGrone, J. C., c ..... Comanche
Lambert, Floyd Aubrey, c ..... Dallas
Lancaster, Claude, c ..... Fayetteville
Lancaster, Ewin Frazier, c ..... Troy
Lancaster, Joe J., c ..... Dallas
Lancaster, Robert Roy, c .. College Station
Landgraf, Hubert Jules, c ..... Tivoli
Landua, Harvin Louis, c ..... Brenham
Lang, Gertrude Augusta, c ..... Navasota
Larsen, Leonard Gage, c ..... Dallas
LaRue, Glover Glinnon, c ..... Lovelady
Lastor, L. W., c ..... Franklin
Lavoi, Sidney Anthony, c .....
..... Lake Charles, Louisiana
Lay, D. W., c ..... Beaumont
Layton, Robert Monroe, c ..... Humble
Leach, Herbert Weldon, c ..... Stephenville
Leathers, Robert Barnett, c ..... Blum
Lee, Yung Chen, c ..... Kiading. China
Lemburg, Homer Ben, c ..... Mason
Leslie, Carlton Fitzgerald, c .. San Antonio
Leuty, Gregory M., c ..... Pflugerville
Levine, Sam, c ..... Corsicana

Lewis, Converse R., Jr., c .. College Station
Lewis, Homer Harris, c .... San Augustine
Lewis, Travis J., c ..... Fort Worth
Lewis, William E., Jr., c .. College Station
Light, Beryl L., c ..... Dallas
Lightsey, Dorothy, c ..... Caldwell
Lightsey, Gladys, c ..... Bryan
Lightsey, Ruby, c ..... Caldwell
Liles, Kenneth W., c ..... Throckmorton
Lilly, Bob T., c ..... Sinton
Litteer, Dan V., c ..... Brenham
Little, Ira Claude, c ..... Dallas
Little, Wayne Lee, c ..... Elkhart
Lloyd, Mrs. J. B., c ..... Bremond
Lluy, Jorge Jose, c ..... Guines, Cuba
Locke, Joe Thomas, Jr., c ..... Bryan
Logan, Joseph B., c ..... Sonora
Loggie, John Reid, c ..... Wichita Falls
Long, C. E., Jr., c ..... Roscoe
Long, Malcolm, c ..... McKinney
Long, Wayne E., c ..... College Station
Longley, James Wildon, c ..... San Saba
Longoria, Edward, c ..... Laredo
Loughridge, Terry James, c ..... Houston
Love, Tot Milburn, c ..... Mt. Home
Low, Flossy Rayzor, c ..... Big Spring
Lowrie, Gleenwood Robert, c .... Terrell
Lowrie, John Dudley, c ..... Terrell
Lucey, William Gerald, c ..... Cleburne
Lyle, Clayton B., c ..... Denison
McCall, Lance Eugene, c ..... Groveton
McCanne, Jack F., c ..... Lakeview
McCluney, Samuel Robert, c Waxahachie
McCollum, John Jefferson, c .. San Antonio
McCoy, Herman Wilson, c .... Clarksville
McCrocklin, George Wilson, c .....
..... Mansfield, Louisiana
McCulley, William Straight, c .....
.....College Station
McCullough, M. L., c ..... Ridge
McDougal, Hulan Orel, c ..... Iola
McElhany, R. L., c ..... Eustace
McElroy, Robert Allan, Jr., c .... Victoria
McElroy, Robert L., c ..... Belton
McElroy, Walter D., c ..... Weatherford
McFarland, Carl Alexander, c ..... Flint
McFatridge, Robert Frank, Jr., c .....
..... Bloomburg
McGahey, Oma Lucius, c ..... Brownwood
McGehee, Tom, c ..... Abilene
McGill, C. C., c ..... San Angelo
McGowen, Archie Leroy, cc ..... Genoa
McGowen, Mrs. A. L., c ..... Genoa
McGowen, Margaret Jane, c .....
..... St. Paul, Kansas
McGregor, Oris Eugene, Jr., c .. Pendleton
McHaney, John Grover, c ..... Bryan
McIlroy, Horace Sherman, c ..... Tolar
McIntosh, William Proctor, c .... Calvert
McKemie, Wesley Warren, c ..... Hearne
McKenzie, Joseph David, c .. College Station
McKinney, Carroll, Brooks, c .... Waco
McLeroy, John Otto, c ..... Alvarado
McMillan, Gordon Felix, c ..... Mason
McMurrough, Glenn Gabriel, c ..... Dobbin
McNiel, H. R., c ..... Chrystal City
McPeters, Morris A., c ..... College Station
Macdonald, Ian Ross, c ..... Galveston
MacInerney, Edward O., c ..... Galveston
Maddox, Frank Ollin, c ..... Ennis
Madison, William Frederick, c .... Amarilo
Magee, Clyde Jared, c ..... McLean
Major, Fred J., Jr., c .. College Station
Makeever, Samuel Joseph, c ..... Bellville
Malven, Stephen St. J., c .....
..... Washington, D. C.
Manly, Clarence Edward, Jr., c .... Cotulla
Mann, Paul Francks, c ..... Brady
Marburger, Billie Mae, c .... College Station
Marek, Schuerenberg Joseph, c .. Brenham
Marquette, Louis Leddon, c ..... Teague
Marsh, Claron C., c ..... Livingston
Marshall, Eugene E., c ..... Farmersville
Marshall, Kenneth J., c ..... Silsbee
Marshall, Lewis H., c ..... Heidenheimer
Martin, Arthur Mex, c ..... El Paso
Martin, Bockett Brooks, c ..... Temple
Martin ,C. H., c ..... Taylor
Martin, F. W., c ..... Alexander
Martin, Homer C., c ..... Mason
Martin, Jack Dalton, c ..... San Angelo
Martin, James Hubert, c ..... Alexander
Martin, James W., c ..... Alta Loma
Martin, Reuben Stone, c ..... Jasper
Martin, Ted, c ..... Osage
Martin, Wallace Abe, c ..... Lockney
Martin, Zelda C., c ..... Alexander
Martinez, Manuel Ernesto, c .....
.....C. Victoria, Mexico
Mashburn, John Henry, c ..... Childress
Mathews, Grover Cleveland, c .... Houston
Mathieu, Lewis Gaulden,, c .... San Antonio
Matthews, John B., cc ..... Houston
Matthews, Joe L., c ..... Lamesa
Matthys, Walter Charlie, c ..... Riesel
Maxwell, Carl Eugene, c ..... Strawn
Maxwell, Forest Owen, c ..... Waco
Maxwell, H. D., c ..... Rockdale
Maxwell, Nolan Thomas, c ..... Leonard
Meabon, Don M., c ..... Olney
Meador, Billy, c ..... Moody
Mebane, Lucile, c ..... Bryan
Meek, Leonard Lloyd, c ..... Mt. Vernon
Merka, Ella F., c ..... Bryan
Merrill, Paul Jones, c ..... Henrietta
Mertz, Earl Richard, c .... Clayton, Missouri
Metz, Tom W., c .....Center
Mikeska, B. J., cc ..... Placedo
Miller, Ben Burnet, c ..... Waco
Miller, E. E., c ..... Taylor
Miller, Ely Hans, c ..... Waco
Miller, Frederic Halley, c ..... Fort Worth
Miller, Glenn Rush, c ..... Houston
Miller, Looe, c ..... Floydada
Miller, Marjorie Earle, c ..... Bryan
Miller, Othaneil, c ..... Burkeville
Miller, Ross Ivon, c ..... Bryan
Miller, William Bluford, c ..... Burkeville
Miller, William Sebe, c ..... Dallas
Milliff, John Henry, c ..... Crockett
Mills, William Cecil, c ..... Caldwell
Minsky, Sol, c ..... Bryan
Minter, Flora Frances, c ..... Hearne
Miranda, Bernardo Roberto, cc .... El Paso
Mitchell, Frank William, c ..... Kosse
Mitchell, Robert Eugene, c ..... Corsicana
Mize, Garland Truman, c ..... Wallis
Mize, J. T. H., c ..... Bryan
Moehlman, Roger, c ..... Bryan
Moffitt, Alfred F., c ..... Cuero
Mogford, Ruth Nuckols, c College Station
Monroe, J. P., c ..... Houston
Montgomery, Allie, c ..... Bryan
Montgomery, Morris Bailey, c .... Richards
Moon, Thomas Jefferson, c ..... San Diego
Moore, Alford Roy, c ..... Daingerfield
Moore, Ailsa Thomson, c ..... Galveston
Moore, Dan, c ..... Bryan
Moore, Edwin Hewitt, c ..... Dallas
Moore, Jack Buckley, c ..... El Paso
Moore, Jesse David, c ..... Troy
Moore, Joe H., c ..... Alvin
Moore, Mayme, c ..... Hubbard
Moore, Paul Morgan, c ..... Beeville
Moore, William Joseph, c ..... Mt. Vernon
Morgan, Charles Lewis, c ..... Longview
Morgan, Maurice Allen, c ..... Austin
Morris, Ivan Holland, c ..... Groesbeck

Morris, Lorenzo Eugene, c ..... Tolar
Morris, William Cleveland, c ..... West Columbia
Morriss, James Caldwell, c .. Douglassville
Mortan, George Monroe, c ..... Sherman
Morton, Charles G., c ..... DeLeon
Moseley, Joe Clifton, c ..... Cleburne
Moss, Joseph Taylor, c ..... Sinton
Motheral, Joe Rankin, c ..... Bryan
Mousner, Leonard, c ..... College Station
Mozisek, Arnold Rudolf, c ..... Weimer
Muller, Westley Fedell, c .... Nacogdoches
Mullins, Claude B., c ..... Victoria
Munn, Woodrow W., c ..... Sterling City
Munz, Carrol P., c ..... Brenham
Murphey, Frank S., c ..... Marshall
Murray, Grady Odell, c ..... Bryan
Murray, H. G., c ..... College Station
Murray, Irvin Bernard, Jr., c .... Orange
Murray, James Weyman, c ..... San Saba
Myers, Elton Philip, c ..... Palestine
Myers, Oliver Wesley, Jr., c ..... Bryan
Myrick, James Leonard, c ..... Crandall
Nagel, Gilbert, c ..... Fredericksburg
Nash, L. Imogene, c ..... Bryan
Nau, Robert H., c ..... College Station
Neal, Jack, c ..... San Antonio
Nelson, James A., c ..... Orange
Nelson, Robert Richerd, c ..... Hubbard
Nethery, Wendell E., c ..... Milam
New, Henry Ford, c ..... Buda
Newman, John William, c ..... Fort Sam Houston
Newport, Fred Carl, c ..... Amarillo
Nicholl, Nelson Leon, c ..... Amarillo
Nichols, James B., c ..... Corsicana
Nix, Teddy R., c ..... Hico
Noel, James Alfred, c ..... Rice
Norman, Clyde Thomas, c ..... Dallas
Northrop, Joseph Walter, c ..... Houston
Northrop, Page Harris, c ..... Houston
Norton, Obie William, c .... College Station
Novosad, Lena Victoria, c ..... Wheelock
Novosad, Millye, c ..... Bryan
Novosad, Raymond Robert, c ..... Caldwell
Nuckols, William D., c ..... Clifton
Nuckols, William Horton, c .. San Antonio
Nunn, Hazel Dawn, c ..... Bryan
Oakley, Alonzo Wesley, c ..... Terrell
Odell, Earl G., c ..... Dallas
Ogg, Jimmie Rene, c ..... Hempstead
Ogier, Alice Catherine, c ..... Bryan
Oliver, John Eoff, c ..... Stephenville
Oliver, John P., c ..... Stephenville
Olsen, Hubert Henry, c ..... Galveston
Olsen, Arthur S., c ..... College Station
O'Neal, Walter Elzie, c ..... Lometa
Orchard, John Malcolm, c ..... Bishop
Orr, Carl Edward, c ..... Edge
Osborne, Gray Jeffrey, c .... Madisonville
Owen, Herbert Granvel, c ..... Castell
Owen, Roy, c ..... Athens
Pacilk, Charlie J., c ..... Gainesville
Page, George Robert, c ..... Houston
Paggi, Charles Ed., c ..... Beaumont
Palmer, William Clifford, c ..... Ennis
Parker, Eulus Alton, c ..... Greenville
Parker, Robbie Clifford, c ..... Edge
Parsons, Seth Hamilton, c ..... Big Spring
Pate, Brantley Miller, c .... College Station
Patrick, Ben L., c ..... Mt. Pleasant
Patrick, Flora LaRue, c ..... Crane
Patrick, Paul V., c ..... Crane
Patterson, Ned Houghton, c ..... Temple
Patterson, Robert C., c ..... Houston
Patton, Carl E., Jr., c ..... Beaumont
Payne, Jesse B., c ..... Hearne
Payne, Melvin Perry, c ..... Bryan
Payne, Vestal Self, c ..... Throckmorton
Peace, J. R., c ..... Mission
Pearce, Homer Lewis, Jr., c ..... Sterling City
Pearson, Luther Earl, c ..... Bryan
Peavy, Herbert L., c ..... Beaumont
Pedigo, Edward Maurice, c ..... Sherman
Peers, Harry L., c ..... Fort Worth
Pehnke, Joseph August, c ....Galveston
Pemberton, Harvey Reagan, c ..... Denton
Pennington, Edward Coleman, c .... Cisco
Percy, H. V., c ..... Jonah
Perrone, John Paul, c ..... Hearne
Peterson, Glenn A., c ..... Port Lavaca
Petty, Winnie, c ..... Franklin
Pfeiffenberger, George W., c ..... Bryan
Phillips, Oscar Myles, c .... College Station
Phillips, Rupert L., c ..... Iredell
Pickett, Arnold H., c ..... Post
Pickett, Agnes M., c ..... Post
Pierce, Frank C., c ..... San Benito
Pierson, Edwin Louis, c ..... Hamilton
Piester, James Martin, Jr., c ..... Weatherford
Pipsaire, M. J., c ..... Henderson
Polk, Charles E., c ..... Belton
Pollan, G. W., c ..... Rice
Pool, John Lee, c ..... Dallas
Porter, Henry Karnes, c ..... Belton
Porter, J. C., c ..... Granbury
Porter, James C., c ..... Granbury
Porter, Walter L., Jr., c .... College Station
Porterfield, Clyde Jackson, c ..... Moody
Pos, Robert Eugene, c ..... Bryan
Pos, Walter Henry, c ..... Bryan
Posey, W. T., c ..... Emory
Post, Ben Gibson, c ..... Montgomery
Poston, Zachary Taylor, c San Augustine
Potts, Charles Bruce, c ..... Carthage
Poutra, Elmer T., c ..... Beaumont
Powell, R. J., c ..... Richland Springs
Powell, Robert J., c ..... Richland Springs
Powell, Richard L., c ..... Dallas
Prasatik, A. J., c ..... Caldwell
Prewit, James David, c ..... David
Prewitt, Richard Robert, c College Station
Price, Ivy S., c ..... Alba
Price, James M., c ..... Oakwood
Price, Lola Moreene, c ..... Bryan
Price, Ralff Trigg, c ..... Bryan
Proctor, Jack Tolbert, c ..... Big Spring
Proffer, Robert L., c ..... Denton
Prugel, August E., c .... College Station
Prutzman, Forrest Gilbert, c .... Beaumont
Pump, William Edward, c ..... Gulf
Qualtrough, Henry Mosehart, c .... Houston
Quarles, Norman Kerrigan, c ..... Slocum
Quigles, Murray Basile, c ..... Galveston
Radack, Edmund Andrew, c ..... Glidden
Radbury, Joe H., c ..... College Station
Radford, R. T., c ..... Montalba
Ramsay, William Calhoun., c .....Bandera
Ramseur, Weldon W., c ..... Houston
Ramsour, James Milton, c ..... Richland Springs
Randolph, Gayle Bowden, Jr., c ..... Madisonville
Raouf, Ali Parviz, c ..... Haifa, Palestine
Rasmussen, A. A., c ..... Seadrift
Ratcliff, E. Lister, cc ..... Colorado
Ratcliff, John H., c ..... College Station
Ratcliff, Kathleen A., c .... College Station
Ratcliff, Willie Harrold, c ..... Marshall
Rawls, R. D., c ..... Coolidge
Ray, Claris Boyd, c ..... College Station
Rea, Buford Eugene, c ..... Montgomery
Rea, Robert Howard, c ..... Weatherford
Reagan, Bruce Warner, c ..... Waco

Reagan, Eckwood Hardy, c ..... Marquez
Reagan, R. L., c ..... Beeville
Reasonover, Jakie H., c .... Raymondville
Rector, Bill Nat, c ..... Sanger
Rector, Walter S., c ..... Houston
Redden, Thomas Lee, c ..... Temple
Reed, Woodley Wayne, c ..... Roby
Reese, Fred Alvin, c ..... Madisonville
Reese, George Gordon, c ..... Commerce
Reese, Lee Sewell, c ..... Gainesville
Regmund, Jerry, c ..... Corpus Christi
Rehmet, Joe R., c ..... Alice
Reinarz, Alvin Robert, c ..... San Antonio
Reneau, J. B., Jr., c ..... Munday
Reppert, Frank Lauren, c ..... Bryan
Reynolds, E. L., c ..... Bremond
Reynolds, Lelmer C., c .... College Station
Rhea, Robert Milton, c ..... Forney
Rhodes, Ollie Allen, c ..... Lyons
Richmond, Thomas Rollin, c College Station
Richmond, Wallace Parrish, c ..... Kyle
Richter, Francis Joseph, c ..... Laredo
Riddle, R. B., c ..... Decatur
Ridenour, Jefferson Dee, c ..... Dallas
Riggs, John K., c ..... College Station
Riherd, Dewitt Jackson, c .... Stephenville
Riherd, Paul Truman, c..... Bryan
Ripple, Henry Charles, c ..... Guy
Risinger, Bertie, c ..... Bryan
Rives, J. D., c ..... Loneville
Roark, James Frazer, c ..... San Antonio
Robbins, William Roland, c ..... Caldwell
Roberts, Cephas, E., c ..... College Station
Roberts, Homer David, c ..... Naples
Roberts, James Elton, c ..... Van
Robinson, C. V., c ..... Coleman
Robinson, John H., c ..... Dallas
Robinson, Joe M., c ..... Missouri City
Rochelle, Esther Marie, c ..... Bryan
Rockwell, Cecil C., Jr., c ..... Houston
Roddy, William T., c ..... Troup
Rodgers, Robert B., c .....San Antonio
Roesner, Earl Harold, c ..... Katy
Roesner, George Earl, c ..... Katy
Rogers, D. C., c ..... McKinney
Rogers, Ernest Ensley, c ..... Washington
Rogers, Jack Mabry, c ..... Batson
Rogers, Milford S., c ..... Rockwall
Rollins, Joseph Guy, Jr., c ..... Austin
Rollins, J. Thomas, c ..... McKinney
Rooks Jesse M., c ..... Edinburg
Rose, Harold E., c ..... Port Arthur
Rosier, Lola Josephine, c ..... Kurten
Ross, Walter Thomas, c ..... Carthage
Rougeau, Clyde Lee, c .....Lecompte, La.
Routt, J. E., c ..... Chapel Hill
Rowe, Henry Hilliard, c ..... San Angelo
Royle, Willie Calvin, c ..... Lufkin
Rubenstein, Mathews S., c ..... Brenham
Rudasill, Nichols Homer, c .... Rocksprings
Ruhmann, Welton A., c ..... Kenedy
Russell, Charles Scott, c ..... Granbury
Russell, Ralph W., c ..... Cisco
Rutledge, Samuel Scott, c ..... Floydada
Rutledge, Tom Hearon, cc ..... Paris
Rychlik, Ulasta, c ..... Wheelock
Rylander, Halley Garison, c ..... Itasco
Sadler, Walter W., c ..... College Station
Saegert, Jesse Joe, c ..... Seguin
Safir, Jack, c ..... San Antonio
Sain, Carl, c ..... Granbury
Saldana, Miguel, c ..... Laredo
Sanders, Howard Jackson, c .... Millersview
Sands, Herschel Walter, c ..... Hutto
Sanford, Charles Garrison, c ..... Timpson
San Miguel, Arthur Albert, c San Antonio
Sasse, Bruce Eckhardt, c College Station
Sayles, Margaret, c ..... Caldwell
Scamardo, Dorothy Stubblefield, c Caldwell
Scarborough, Alfred M., c ..... Cleveland
Schaefer, Nicholas John, c Shreveport, La.
Schelper, Max Whitwood, c .... San Antonio
Schlafli, Alfred, c ..... Seguin
Schmucker, Charles Leroy, c .... Hamshire
Schott, Francis Joseph, c .... Nacogdoches
Schovajsa, Julia Louise, c ..... Bryan
Schraub, Lester Phillip, c ..... Seguin
Schultz, Eddie Adolph, cc ..... Bryan
Schwertner, O. B., c ..... Schwertner
Scofield, James A., Jr., c ..... Bryan
Scott, Estell William, c ..... Stephenville
Scrivener, Willis A., c ..... Taft
Scruggs, John Haskel, c .... College Station
Scruggs, Ray, c ..... McGregor
Seabolt, Eugene Victor, c College Station
Sealy, Martin T., c ..... Houston
Seamans, John Ercelle, c ..... Chester
Seamans, Robert Lofton, c ..... Chester
Seay, L. E., c ..... Mt. Vernon
Sebesta, Edmund Edward, c ..... Bellville
Seely, Thelma Agnes, c ..... Millican
Sergeant, Herbert Petrie, c ..... Victoria
Seward, Clay L., c ..... Brenham
Shackelford, Floyd Dee, c .... Madisonville
Shannon, James William, c College Station
Sharbutt, Truett Grover, c ..... Overton
Shaw, B. B., c ..... Killeen
Shaw, R. A., c ..... Nacogdoches
Shaw, Henry Thomas, c ..... Terrell
Shell, Roy Kenneth, c ..... Gregory
Shelledy, James Lynn, c .... College Station
Shelton, R. F., c ..... Grapevine
Shepard, Neal David, c ..... Texon
Shepherd, William Lawrence, c Port Arthur
Sherrill, Francis Mack, c ..... Rocksprings
Shipman, Roy Marvin, c ..... Three Rivers
Shipp, Betty, c ..... Mineola
Shone, Louis Albert, c .... College Station
Shrover, J. Victor, c ..... Palestine
Sien, Albert Charles, c ..... San Antonio
Silbert, I. M., c ..... Waco
Silverman, David Louis, c ..... Longview
Simonpietri, Carlos Guillernio, c .....
..... Ponce, Puerto Rico
Simonton, Lucile Vernie, c ..... Bryan
Simpson, John Ottis, c ..... Proctor
Simpson, Willard Eastman, c .. San Antonio
Simrall, Harry Charles, c .....
.....State College, Mississippi
Singletary, Giles, c ..... Center
Singletary, George Frederick, c .... Bryan
Singletary, Jane L., c ..... Bryan
Skrla, Dick, c ..... Ganado
Slack, Richard Clay, c ..... Presidio
Slaughter, Henry Leon, c ..... Edgewood
Slaughter, Joseph Coman, c ..... Bryan
Slay, Harrold Dee, c ..... Pineland
Sloop, Fred L., c ..... Bryan
Smith, Arthur Lee, c ..... Bryan
Smith, Bertha Lucile, c ..... Crockett
Smith, Everett L., c ..... Overton
Smith, Euclid M., c ..... Crockett
Smith, Fred Lewis, Jr., c ..... Houston
Smith, Gip, c ..... Waco
Smith, George M., c ..... Waco
Smith, Harry C., c ..... Fort Worth
Smith, Hollis Levi, c ..... Karnes City
Smith, John Douglas, c ..... Houston
Smith, James Richard, c ..... Menard
Smith, Lawrence Drummon, c .... El Campo
Smith, Lloyd Newton, c ..... Yorktown
Smith, Morrell Bishop, c ..... Troup
Smith, Nonnie Allen, c ..... Silver Valley
Smith, Niley Judson, c ..... Cameron
Smith, Omar, c ..... San Antonio
Smith, Robert Long, c ..... Dallas

Smith, William Cagle, c ..... Kilgore
Smyth, Leon L., c ..... Hillsboro
Snell, David Munro, c ..... Dallas
Snuggs, Roland Edward, c ..... Bryan
Solomon, Monroe, c ..... Millican
Sonnier, Zachary, c .... Scott, Louisiana
Sory, Carl Gerlach, c ..... Livingston
Sowell, Joe Lawson, c ..... Bryan
Sowers, J. Cullen, c ..... Woodlake
Sowers, R. Morris, c ..... Austonio
Sowma, Albert H., c ..... Bremond
Spacek, Clarence Lewis, c ..... Edinburg
Spacek, Edwin A., c ..... Sinton
Speake, Cleophas Stanley, c .....
..... Lucknow, India
Spears, Joalan, c ..... Bowie
Spelce, Carl Cooper, c ..... Windom
Spellmann, Homer, c ..... Smiley
Spencer, Fred Davis, c ..... Temple
Spencer, Hubert L., c ..... Georgetown
Spiller, Henry Langum, c ..... Wheelock
Spiller, Jamie Madison, c ..... Canadian
Spinks, Thomas John, c .. College Station
Spivey, John Robert, c ..... Sherman
Sprague, Denton Elston, c ..... Tulia
Sprain, Louis A., Jr., c ..... Wallis
Spreen, John Fred, c ..... Brenham
Sprott, D. B., c ..... College Station
Staley, Jack Alonzo, c ..... Fort Worth
Stallings, Fred Allan, c ..... Moody
Stansell, John A., c ..... Mart
Staples, Edwin Anthony, c ..... Edna
Stark, James Albert, c ..... Sealy
Stark, J. Wayne, c ..... Winters
Stark, L. P., c ..... Lamesa
Starr, Luther James, c ..... Hearne
Staudt, Charles E., c ..... San Antonio
St. Clair, Frederic Anthony, c ..... Brady
Steck, Ernest Edward, cc ..... Mart
Stenzel, Arthur Henry, c ..... Houston
Stephens, Jack Howard, c .... San Antonio
Stephens, Paul Whiten, c ..... Temple
Stephens, William Henry, c .... San Antonio
Stephenson, Lorene Faye, c ..... Bremond
Stewart, Mary Jewel, c ..... Bryan
Stilwell, Henry Wesley, c ..... Texarkana
Stockton, William N., c ..... Kerens
Stokes, William Luther, Jr., c ..... Bartlett
Stone, Fred, cc ..... Raymondville
Stone, Sidney Smith, c ..... Nacogdoches
Stoneham, S. Lloyd, c ..... Stoneham
Street, George Alfred, c ..... San Antonio
Strickland, A. C., c ..... Gustine
Strother, Tom Billie, c ..... Anna
Stufflebeme, J. W., c ..... Itasca
Sturkie, Ira Oquinn, c .... College Station
Sturkie, Paul David, c ..... Comanche
Suebsaeng, Charuna, cc Washington, D. C.
Suffel, Paul Henry, c ..... Cherokee
Sullivan, F. B., c ..... Woodville
Swan, Harris William, c ..... Houston
Sweeten, Dalton Frank, c ..... Lott
Swinson, Frances Ann, c ..... Calvert
Tanner, Harry, c ..... Columbus
Tapal, Joe John, c ..... Fayetteville
Tarver, Jack H., c ..... Shreveport, La.
Tarwater, Sidney Lee, c ..... Caldwell
Tate, Charles William, c ..... Giddings
Tatum, Joseph Edward, c ..... Rocksprings
Tatum, Robert Morris, c ..... Bryan
Taylor, Cloy Alton, c ..... Bryan
Taylor, John H., c ..... Kemp
Taylor, Jack Lynn, c ..... Hawley
Taylor, Joe Samuel, c .... Ardmore, Okla.
Taylor, John W., c ..... San Angelo
Taylor, Lewis, c ..... Wells
Taylor, Luther Douglas, c ..... Gilmer
Taylor, Luel L., c ..... North Zulch
Taylor, May Ola, c ..... North Zulch
Taylor, Oras Arlie, c ..... Bryan
Taylor, Robert E., c ..... Hawley
Taylor, Robert Suttle, c ..... Corsicana
Taylor, Velma, c ..... North Zulch
Taylor, W. M., Jr., c ..... Corsicana
Teller, Willis A., c ..... Westhoff
Temple, Fred Rankin, c ..... Mt. Pleasant
Termin, Dave, Jr., c ..... Waco
Terrell, Lopoz H., c ..... Waco
Thaxton, John H., c ..... College Station
Thomas, Clifton, c ..... Bryan
Thomas, Edwin W., c ..... Gainesville
Thomas, Fred C., c ..... Gainesville
Thomas, Frank Lincoln, c College Station
Thomas, Fred Purnell, c ..... Dallas
Thomas, J. Alvis, c ..... Waco
Thomas, Lloyd, c ..... Grandview
Thomas, Ogden U., c .. Lake Charles, La.
Thompson, Aubrey Leon, c ..... Bryan
Thompson, Mrs. A. L., c ..... Bryan
Thompson, Clarence Ottie, c ..... Hubbard
Thompson, Loyd Barton, c ..... Troy
Thompson, Uel Dee, c ..... Waxahachie
Thornton, Julian Ray, Jr., c ..... Farwell
Thornton, Penrod, c ..... Gonzales
Thornton, Walter Blackwood, c .... McAllen
Threadgill, Walton O., c ..... Bellevue
Thurmond, Ruth Arnette, c ..... Bryan
Tice, John Wesley, c ..... Dallas
Tiemann, Erwin Fritz, c ..... La Grange
Tippit, Robert Ray, c ..... Medina
Tittle, Homer B., c ..... Stanton
Todd, Francis Enos, c ..... Crowell
Todd, Walter Perry, c ..... Crowell
Toombs, Alfred J. L., c ..... Dallas
Torn, Roland S., c ..... Taylor
Trail, Charles Darwin, c ..... Kaufman
Traylor, John Hamlin, c ..... Bryan
Treichler, Ray, cc ..... College Station
Truitt, Leonard Llewellyn, c ..... Naples
Truman, Jimmie Lois, c ..... Waco
Tumlinson, Otto G., c ..... College Station
Turman, Paul Manuel, c ..... Tyler
Turner, Millard T., c .... College Station
Twaddell, Madge D., c ..... Spur
Twining, Lawrence E., c ..... Fort Worth
Tyson, Kenneth M., c ..... Denton
Uhr, Clinton William, c ..... San Antonio
Ulmer, James A., c .....San Angelo
Underwood, George Edward, c .... Carthage
Underwood, Harris, Jr., c ..... Houston
Upchurch, Melvin Louis, c ..... Canyon
Urbanovsky, Alice, c ..... Caldwell
Urbanovsky, Arnold John, cc .... Caldwell
Urbanovsky, Alvin Theodore, c .. Caldwell
Urbanovsky, Fred, c ..... Caldwell
Ussery, Pearl, c ..... Caldwell
Valentino, Ernest D., c ..... Houston
Vaughan, Dale Brooks, c .. College Station
Venner, Ralph Clifton, c ..... Wolfe City
Vertrees, William Campbell, c .....
.....College Station
Vezey, Mary Eloise, c .... College Station
Vick, Edgar Lawrence, c ..... Woodlake
Vick, Jack F., c ..... Bryan
Vidrine, George Curtis, c .... San Antonio
Villarreal, Wenceslao, cc .. Torreon, Mexico
Vollentine, J. W., Jr., c ..... Gonzales
Wadhwani, L. H., c .... Jail Road, Hirabad
Wainwright, Charles Ray, c .. Tulsa, Okla.
Walker, Bonnie Mayo, c ..... Bryan
Walker, Jack K., c ..... Fort Worth
Walker, Lanyce Dean, c ..... Mart
Walker, Samuel G., c ..... Cedar Lane
Walker, Woodrow, c ..... Hico
Wallace, James B., Jr., c ..... Goose Creek
Wallin, Dan J., c ..... Bryan
Wallin, Pauline Taylor, c ..... Bryan
Walling, Herbert Merl, c .... Gainesville

Walton, Thomas Owsley, c .. College Station
Ward, Drue, c ..... Valley View
Ward, Jeremiah III, c ..... Poteet
Ward, Margaret Neal, c ..... Caldwell
Warren, Lester Gervis, c ..... Center
Washington, Courtenay Carvin, c ..... Galveston
Watanabe, Taro, c ..... College Station
Watkins, Newt R., Jr., c ..... Rosebud
Watson, Carl Russell, c ..... Merkel
Watts, Elizabeth Mary, c ..... Bryan
Watts, Sarah Frances, c ..... Bryan
Weaver, Roleene Maynette, c Fort Worth
Weaver, Roy Stanley, Jr., c ..... Navasota
Weddington, Ruth, c ..... Bryan
Weir, William Calvin, c ..... Vernon
Wendorf, Adolphus, cc ..... Waco
Wesson, Henry Schumacher, cc .. Navasota
West, Larkin Earl, c ..... Edinburg
West, Lewis H., c ..... Anna
Westmoreland, William Peck, c .. Lockhart
Whall, Clifford William, c ..... San Juan, Puerto Rico
Whitaker, Joseph McSwain, Jr., c ..... Long Branch
White, Clarence M., c ..... Beaumont
White, Grover C., c ..... Bryan
White, George N., c ..... Amherst
White, Howard S., c ..... San Antonio
White, Joe Philip, c ..... Bryan
White, Joseph Reeves, c ..... Bryan
White, V. C., c ..... Amarillo
White, William Christopher, c ..... Gladewater
White, Willard F., c ..... Dublin
Whitehurst, Sanford H., c ..... Mesquite
Whorton, Edgar Harris, c ..... Bryan
Widney, Harvey Shearer, c ..... Dallas
Wilcox, Ophelia, c ..... Bryan
Wiley, Paul Manning, c ..... Wheeler
Wiley, Robert A., c ..... College Station
Wiley, Vernon C., c ..... Houston
Wiley, William Henry, c .... College Station
Wilkinson, L. C., c ..... Katy
Wilkinson, Mrs. Mary, c ..... Katy
Wilkinson, Robert Zoel, c ..... Ennis
Willard, Horace Randolph, c .... Giddings
Willey, Norwood Bailey, c .. Mauriceville
Williams, Charles Adolphus, c San Antonio
Williams, C. C., c ..... San Benito
Williams, Charles W., c ..... Mexia
Williams, Joe Calvin, c ..... Lamesa
Williams, Maurice Robert, c .... Edinburg
Williams, Robert Howard, c ..... Carrizo Springs
Williamson, Howard Morris, c ..... College Station
Williamson, J. Maurine, c .. College Station
Willoughby, Claude Houston, c .. Gainesville
Wilmeth, Lillard, c ..... Ebony
Wilson, Clarence Arthur, c ..... Luling
Wilson, James Ernest, Jr., c .... McKinney
Wilson, Royce Lee, c ..... Choice
Wilson, Thomas Fred, c .... Jacksonville
Wilson, Thurman Neal, cc ..... Wharton
Winkler, Charles Herman, Jr., c ..... College Station
Winkler, Max Carl, c .... College Station
Winston, John Marshall, c ..... Houston
Wise, Herbert Earl, c ..... Waco
Witcher, I. M., c ..... Gatesville
Wolman, Natalie, c ..... Caldwell
Womack, Glenn Edwin, c ..... Bryan
Wood, Jim Quinn, c ..... Navasota
Wood, John R., c ..... Brownwood
Woodson, Mary Lynn, c ..... Caldwell
Woodson, Martha Maitland, c .... Caldwell
Worley, Cleon M., Jr., c .. Shreveport, La.
Worthington, Robert Irvin, c .... Caldwell
Wright, Helen Elizabeth, c ..... Caldwell
Wright, Homer Herschel, c ..... Houston
Wright, Welcome E., c ..... Commerce
Wynn, Ward William, c ..... Charlotte
Yardley, James Thomas, Jr., c Port Arthur
Yates, Ruth, c ..... San Marcus
Yeager, Jim Rice, c ..... Marquez
Yezak, Herman Robert, c ..... Bremond
Young, John Garland, c ..... Lockhart
Young, Joe Weldon, c ..... Paducah
Young, W. C., c ..... Palestine
Zeiss, Lawrence Miller, c ..... Brenham
Zinke, Ernest Clarence, c ..... Galveston
Zinn, Johnnie P., c ..... Temple
Zuber, Margaret Louise, c ..... Bryan

SUMMARY OF ENROLLMENT, SESSION 1936-37

(June 1, 1936 to May 1, 1937)

Regular Session 1936-37:

COURSE	Graduate	5th Year	Senior	Junior	Sophomore	Freshman	Special	Total
Agriculture	28	—	108	145	183	253	6	723
Agri. Administration	19	—	78	122	139	144	2	504
Agricultural Education	—	—	50	62	45	79	—	236
Agri. Engineering	3	—	29	23	29	40	1	125
Liberal Arts	—	—	44	71	85	112	6	318
Science	39	—	26	34	51	70	3	223
Architecture	—	5	4	15	28	22	2	76
Arch. Engineering	—	—	3	6	5	13	—	27
Chemical Engineering	6	—	43	45	86	120	—	300
Civil Engineering	9	—	32	45	45	69	—	200
Elec. Engineering	9	—	45	50	69	129	1	303
Geol. Engineering	—	—	4	7	15	18	—	44
Industrial Education	2	—	3	9	8	10	—	32
Mech. Engineering	9	—	34	64	110	208	1	426
Petroleum Engineering	1	—	42	73	134	274	—	524
Textile Engineering	—	—	5	1	2	2	—	10
Cotton Marketing	—	—	—	—	8	28	—	36
Veterinary Medicine	2	—	23	51	96	81	—	253
Total	127	5	573	823	1138	1672	22	4360

Extension Courses in Education	68
Total Regular Session, 1936-37	4428
Summer Session, 1936: 1. College	1429
2. Cotton Classing	27
Total Summer Session, 1936	1456
Grand Total	5884
Less Names Repeated	748
Net Total Regular Session 1936-37 and Summer Session 1936	5136

Short Courses

Summer Session, 1936 and Regular Session, 1936-37:	
County Superintendents' Conference (July 6-9, 1936)	80
Dairy Manufacturing Short Course (February 15-19, 1937)	45
Dairy Herdsmen and Cow Tester Short Course (December 14-18, 1936)	65
Fireman's Short Course (July 13-17, 1936)	473
Farmers' Short Course (July 20-25, 1936)	4919
Highway Short Course (March 25-27, 1937)	334
Horse and Mule Breeders Short Course (March 1-2, 1937)	261
Laundry Owners' Short Course (November 17-19, 1936)	52
Oil Mill Operators Short Course (June 8-13, 1936)	36
Peace Officers' Short Course (July 27-30, 1936)	40
Physical Education Short Course (August 16-22, 1936)	125
Poultry Short Course (October 1-3, 1936)	10
Public Utility Short Course for Electrical Metermen (February 10-14, 1937)	54
Texas School Administration Conference (June 17-20, 1936)	92
Vocational Teachers Short Course for General Professional men (August 5-9, 1936)	38
Water Works Short Course (February 15-20, 1937)	131
Total, Short Courses	6755

DEGREES CONFERRED FEBRUARY 1, 1936

Master of Science (3)

Gus Ralph Herzik, Jr., B. S., A. and M. College of Texas, 1934.

Major Study—Civil Engineering

Thesis: "The Design of the Fine-Grade Asphaltic Concrete Paving Mixture."

With honor.

Ching Ling Hu, B.S., National Central University, China, 1921.

Major Study—Agronomy

Thesis: "A Study of Seed Cotton by Means of Fiber Arrays."

Weldon Gray McLarry, B. S., A. and M. College of Texas, 1934.

Major Study—Electrical Engineering

Thesis: "Acoustical Measurements with Cathode-Ray Oscillograph."

BACHELOR OF SCIENCE

In Agricultural Administration (3)

Edwin Eugene Sawyer
Melvin Louis Upchurch
Hugh Lawson Williams

In Agricultural Engineering (2)

Parker William Howe
J. Frank Roberts, Jr.

In Agriculture (8)

Henry T. Bass
Ivey John Gibbens
William Bonis Hooser
Walter F. Johnson
Clyde Martin Reynolds
Federico Sanchez
Elbert Waide
Gerald Alan Wakefield

In Industrial Education (2)

Curtis Ramsey Eddins, Jr.
William Lamar Stockton

In Petroleum Production Engineering (3)

James Paul Flynn, Jr.
Marshall Francis Stiles, Jr.
John Jacob Taylor

In Science (1)

George Tyson Edds

Doctor of Veterinary Medicine (1)

Edward William Ramsey

DEGREES CONFERRED AT THE SIXTIETH ANNUAL COMMENCEMENT

May 29, 1936

Master of Science (24)

Robert Solomon Adams, B. S., Mississippi State College, 1934.

Major Study—Chemistry

Thesis: "A Study of the Changes Occurring in the Nitrogenous Constituents of Cottonseed Meats During Cooking."

Spencer Butler Apple, B. S., A. and M. College of Texas, 1933.

Major Study—Horticulture

Thesis: "Fruit Bud Differentiation and Fruiting Habits of Certain Varieties of Citrus."

With honor.

Luther Jay Atkinson, B. S., University of Arkansas.

Major Study—Agricultural Economics

Thesis: "The Influence of Transportation Costs Upon the Competitive Position of Vegetable Growers of Texas."

Marshall Underwood Bagwell, B. S., Texas Technological College, 1934.

Major Study—Mechanical Engineering

Thesis: "Impact Strength of Bolts with Reduced Shank Areas."

George Robertson Bellville, Jr., B. S., Southern Methodist University, 1934.

Major Study—Chemistry

Thesis: A Study of the Factors Affecting the Moisture Content of Cotton Seed."

With high honor.

Merrill Hohanshelt Brown, B. A., Simpson College, 1934.

Major Study—Electrical Engineering

Thesis: "A Study of a High Voltage Vacuum Tube Voltmeter Utilizing an External Electrostatic Field to Control Anode Current."

With honor.

Alfred Franklin Chalk, B. A., Baylor University, 1934.

Major Study—Economics

Thesis: "Spanish Economic Theory During the Middle of the Nineteenth Century."

With honor.

Charles Emil Fisher, B. S., Kansas State College, 1934.

Major Study—Agronomy

Thesis: "Effect of Ammonium Phosphate and Other Fertilizers on Yield of Cotton on Soils in the Blackland Region of Texas."

With honor.

Charles Lee Foote, B. S., North Texas State Teachers College, 1934.

Major Study—Biology

Thesis: "An Embryonic Study of the Hybrid of Sheep X Goat." With honor.

Wallace Jerroy Frank, B. S., University of Arkansas, 1934.

Major Study—Chemistry

Thesis: "A Study of the Gossypol Content of Cottonseed Cake and Oil Produced by Cooking Meats at Different Temperatures."

Anan Golub, B. A., Stephen F. Austin State Teachers College, 1933.

Major Study—Accounting and Statistics

Thesis: "Labor Records under the Federal Social Security Act and the Texas Old-Age Assistance Bill."

With honor.

Pedro Garcia Gomez, B. A., Sam Houston State Teachers College, 1934.

Major Study—Education

Thesis: "A Study of the Relation of English Achievement in College to Psychological and English Proficiency Test Scores."

Homer Lloyd Heaton, B. S., Stephen F. Austin State Teachers College, 1929.

Major Study—Education

Thesis: "A Study of the Academic Performance of Transfer Students in the Agricultural and Mechanical College of Texas During the First Semester of the Session 1932-33."

Paul Gustav Homeyer, B. S., A. and M. College of Texas, 1934.

Major Study—Poultry Husbandry

Thesis: "The Effect of Wheat Gray Shorts on the Calcium and Phosphorus Requirements for Growing Chicks."

With honor.

James Maurice Houston, B. S., North Texas State Teachers College, 1934.

Major Study—Chemistry

Thesis: "A Comparative Study of the Mineral Content of Vitamin Containing Foods."

Herbert Thompson King, B. S., University of Wyoming, 1932.

Major Study—Genetics

Thesis: "Color Inheritance of Mammals with Special Reference to Navajo Sheep."

William Straight McCulley, B. A., State University of Iowa, 1932.

Major Study—Mathematics

Thesis: "A Mathematical Discussion of the Equations of Motion."

Cincinnatus Hamilton McDowell, B. S., A. and M. College of Texas, 1912.

Major Study—Agronomy

Thesis: "The Duty of Water for Cotton and Grain Sorghums."

Robert Lee Melcher, B. S., A. and M. College of Texas, 1932.

Major Study—Agricultural Economics

Thesis: "A Study to Determine the Typical System of Farming Practiced Within Each Type-of-Farming Area in Texas in 1931."

James Eads Miller, B. S., A and M. College of Texas, 1934.

Major Study—Rural Sociology

Thesis: "A Survey of the Cooperative Housing Plan at the Agricultural and Mechanical College of Texas."

With honor.

Herbert Henry Nordsieck, B. S., Butler University, 1934.

Major Study—Chemistry

Thesis: "An Investigation of the Applicability of the Photo-Electric Cell to the Determination of Solubility."

Raleigh Elwood Patterson, B. S., Louisiana State University, 1934.

Major Study—Genetics

Thesis: "A Study of the Hormones of Pregnancy of Mammals."

With honor.

Cameron Siddall, B. S., A. and M. College of Texas, 1931.

Major Study—Entomology

Thesis: "Biological and Morphological Studies of Dermacentor Nigrolineatus (Packard) Banks."

With honor.

Tyrus Ramon Timm, B. S., A. and M. College of Texas, 1934.

Major Study—Agricultural Economics

Thesis: "Farmers' Mutual Insurance in Texas."

With honor.

For the Professional Degree of Civil Engineer (2)

William Scott Broome, B. S., A. and M. College of Texas, 1914.

Thesis: "Oyster Shell as Railroad Ballast."

Bennie Herman Faber, B. S., A .and M. College of Texas, 1915.

Thesis: "Land Surveying in Texas."

Bachelor of Architecture

In Architecture (8)

Placido Bueno, Jr.
Edward Frank Hildebrandt
Milton Foy Martin
Edward Mattingly
August A. Neuner
Gerald Raymond Rogers
Harwood Knox Smith
A. B. Swank, Jr.

Bachelor of Arts

In Liberal Arts (15)

James Carlton Barham
Henry Garland Barton
Vann Bradley Davis
Jack P. Goode
Percy E. Griffin
Clarence William Hahn
Clarence Hillyer Heinen
Milton Tillman Hunt, Jr.
Robert John Klink
Frank Gilson Knapp
George Parker Knapp
Marshall A. Langley
Robert William Maxwell, Jr.
Landrum Leslie Medlock, Jr.
Nicholas W. Willis

Bachelor of Science

In Agricultural Administration (44)

George Bargmann
John H. Brison
Floyd McRae Buchel
Harlan Crawford Buttrill
James G. Cage
George Eldon Calloway
Charles Russell Carney, Jr.
William Hampton Cely, Jr.
Kenneth Taylor Dickson
Matthew Monroe Dikeman
Charlie M. Dismukes, Jr.
George Kreplin Fell
Joseph William Foster, Jr.
James T. Hardy
James Riley Heldenfels
Fred Avery Hubbard
Lawrence A. Jalufka
B. Clark Kindel
Harold Patton Kittleband
Wood Barbee Kyle
Howard H. Lock
Glen Guy Looney
Clarence E. Manly, Jr.
Earl Francis Martin
Lee Bernard Miller
William Henry Miller
Claude Moore
William Dale Nix
Herbert Clayton Noelke, Jr.
Robert T. Norwood
Don A. Payne
Percy Reid
Albert Earl Richter
Jordan Jackson Roberson, Jr.
Hildreth F. Souder
Benjamin M. E. Smith, Jr.
Stanfield August Stach
McLendon Montgomery Stallings
Charles D. Statum, Jr.
B. J. Stevens
Harry Vogt
George Smiley Woodfin
Archibald Patterson Young
James T. Zellers, Jr.

In Agricultural Education (27)

Benjamin Marvin Browning
Roy Roosevelt Cloud
Chester Howard Collinsworth
Carroll W. Cox
Austin A. Crownover
Morris Farrow
John Davidson Franklin, Jr.
Albert Charles Harzke
Otis Burl Larner
Winfield Wilson McIlroy
James T. Maness
Warren Ambrose Morgan
Richard R. Morrison, Jr.
Aaron David Pettitt, Jr.
Sherrod Walter Pridgeon
Lee Roy Radford
Grady Leon Richardson
Edward Lee Ross
Ernest F. Scales
Walter Lee Scott
John Hilburn Shows
William Hulen Taylor
Chester Herbert Williams
Curtis Lambert Wilson
Otha Winslar
J. Talmage Wood

In Agricultural Engineering (12)

Weldon F. Appelt
William Calvin Fuller
Kay Halsell. II
Joe Frank Krizek
Darrell Boyd Lancaster
William Ewing Moore, Jr.
James Young Orms
E. Forbes Redding
Carman Griffith Rhode
Harry J. Schreiber
Noble James Taylor
John Wallace Young

49

In Agriculture (48)

Woodrow Wilson Bailey
Lynn Lyndell Byrd
Calvin Marshal Caraway, Jr.
Monte E. Carmichael
Dayton Moses Carroll
Robert Calvin Cross
James Perry Derryberry
Larkin Cloyes Eakin
Owen Hugh Eichblatt, Jr.
Donald Poole Gallman
Parker D. Hana
Irvin Washington Harper
Roy Ernest Harper
Paul Welton Horner
Roy Lee Huckabee
John Elton Hutchison, Jr.
Lee Eyon James
Lynn Page Johnson
Clarence Mack Lamkin
Milton J. Landry
Lawrence Earl Lanford
Daniel Wayne Lay
Robert Houston Mason
Frank Miears
Hollis Ulrich Mustain
William Bailey Pace
John Morrison Ragsdale
Tom Ball Randolph
Robert Henry Remschel, Jr.
Lewis Melvin Roberts
Sam Edward Rosenberg
Word Bell Sherrill
Carter Coleman Speed
Ralph E. Spiker
Mearl Glen Taylor
Louis William Teissler
James Thomas Terry
Nash O. Thompson
Leonard C. Traylor
Alfred Hewlett Walker
Cal T. Wallace
James Arnold Whatley, Jr.
Albert Irving White
Thomas Walter Wiley
Harold E. McCracken
William Robert McCullough
James Alexander Martin
William Henry Wiley
Hugh R. Wilson

In Architecture (1)

Henry Davis Mayfield, Jr.

In Architectural Engineering (1)

J. B. Johnson

In Chemical Engineering (24)

Charlie Vincent Arisco
William Carey Bentley
George Whitfield Brailsford
Preston Earl Chaney
John Letcher Chapin
Robert Sawyer Conly, Jr.
Charles Kenneth Coulson
Samuel James Easley
James Henry Echterhoff
Damon Charles Faber
Miguel Garza
Jaseph Daniel Glidden
Richard Carlisle Halter
Carroll King Hoffmeister, Jr.
Felix Albert Hunter
William Robert Large, Jr.
Wilmon W. Meinke
Max Abe Mosesman
Troy E. Peterson
Cover Curran Porter
Curt Culwell Porter
Thomas Franklin Stephens, Jr.
Eldon Latimer Stovall
Percy A. Tardy, Jr.

In Civil Engineering (20)

Ronald Anderson
Wilbur James Balmer
James S. Crisler
Walter Leary Eeds
Ewald Joseph Effenberger
Anastacio Garcia, Jr.
David Morris Glassford
Edwin Lee Hamilton
James Robert Joiner
John Gaston Keller
Ribelin Kirk
Dudley Joseph Lewis
Thomas H. F. McIlhenny
Harry Ernest Meisell
Elmer Marion Pritchard
Kurt Seidel
Vernon Edwin Staley, Jr.
Donley William Syphrett
Wyatte Gristie Trainer
Cullen Yates Turner

In Electrical Engineering (32)

Thomas O. Allen
Jake Barken
Ben Bernard Boriskie
Donald S. Bowman
Thomas Calvin Browning
John Martin Craddock
Franklin Otto December
J. J. Diehl, Jr.
Woodrow W. Gandy
Albert Carruthers Hall
Roy Huffaker
Chester W. Ingraham
Glover Douglas Johnson
Robert O. Loving
Frank Joseph Lovoi
Thomas Jones McMullin
S. A. Mayfield
Matt Martin Moseley, Jr.
James Morris Nicholas
George Nickerson
Ernest Allen Rische
Clarence Francis Roberts, Jr.
John L. Sandlin
Clarence Douglass Sheffield
Victor Eugene Skalnik
Jamie Ayers Stanford
Murrell Kenton Taylor
John Ashley Warden, Jr.
Hoyt Read Warren, Jr.
Jack Knighton Wehrman
Bruce Foster Wiley

In Industrial Education (7)

James R. Badgett
Joe Hubert Dickey
Vincent Aubrey McCollough
William Elza McEntire
Brooks W. Rogers
Raymond Lewis Rogers
Charles Kahlden Scott

In Landscape Art (4)

George Hamman Brummerhop
Guilford B. Grant
M. Benjamin Hesdorffer
George Henry Pletcher, Jr.

In Mechanical Engineering (28)

Rexford Kosciusko Anderson
John Roscoe Bacon
James Earl Boots
Joe Harry Bower
Earl D. Button
Meade Aubrey Carpenter, Jr.
Jack MacMaster Crews
Harvey James Cullinan, Jr.
Roy Thorne Durst
John Thompson Elrod
Julius August Franz
John Joseph Hanrahan
John Peyton Johnson
George Schroeder Leonard
Earl Yell Long
Henry Marks Long
Edwin Sydney Martin
Walter Heard Moore
Clarence Riley Provine
Francis Riley Provine
Robert Spencer Sherwood
Clifford Max Simmang
Ormond Ralph Simpson
Ellis Marcus Sims
James Monroe Spoonts, Jr.
William Landrum Thomasson
James O. Toole, Jr.
Harry Stewart Turner, Jr.

In Petroleum Production Engineering (12)

Arthur H. Barbeck
James Cosby Blackwood
C. B. Caruthers
Harry Wendell Castle
Francis O. Dollinger
John Edward Lang
Edward James Noone
Leland Fred Peterson
Jack Monroe Shepherd
Warren Weldon Simpson
Harry Massie Smith
Charles Austin Sullins

In Rural Education (6)

Troye Fowler Adams
Edward Emil Bravenec
Malcolm Jerome Carmichael
Bennie Frank Sebesta
William Joseph Tinkle
William Taylor Wilkins

In Science (18)

John Franklin Barnett, Jr.
John Wilmer Blalock
F. B. Braly
Alfred Ross Brin
William Wallace Coulter, Jr.
Jess Marmaduke De Ware
Raymond Scott Evans
David C. Fransen
James Roy Jackson, Jr.
Bok Kimball, Jr.
John Brown McCluskey, Jr.
John C. Monk
John Martyn Newton, Jr.
Robert Thomas Richey
W. J. Schoverling
Robert Leslie Sudheimer
Walter Earle Tardy
William Lewis Young

In Textile Engineering (3)

Harold James Bearden
Leonard Frederick Giesecke
Herman Morris Waldman

Doctor of Veterinary Medicine (12)

Carlos Juan Cardona
Charles Leonard Coleman
Moray Claude Coop
George Tyson Edds
Ralph G. Gomez, Jr.
Bernard Farr Mood
Philip Myers
Erling Richard Quortrup
George Clinton Rich
Charles J. Steeger
Robert Leslie Sudheimer
Alfred Charles Zedlitz

Certificate in Two Year Course, Cotton Marketing and Classing (1)

Harlan Crawford Buttrill

DEGREES CONFERRED AUGUST 22, 1936

Master of Science (22)

Fred Jacob Benson, B. S., Kansas State College, 1935.
Major Study—Civil Engineering
Thesis: "The Design and Economy of the Welded Vierendeel Truss." With high honor.

Harry Brewton, B. S., Sam Houston State Teachers College, 1924.
Major Study—Education
Thesis: "The School Bond Situation in Ten East Texas Counties."

Limmie R. Butler, B. S., East Texas State Teachers College, 1930.
Major Study—Industrial Education
Thesis: "Desirable Content of an Industrial Arts Course for the London Oil Community."

George Walter Cox, B. S., A. and M. College of Texas, 1935.
Major Study—Civil Engineering
Thesis: "The Effect of Certain Admixtures on the Strength of Sheet Asphalt."

Hal C. Doremus, B. S., University of Nebraska, 1921.
Major Study—Civil Engineering
Thesis: "Roadside Improvement on Texas Highways."

William Earl Driskill, B. S., Sam Houston State Teachers College, 1929.
Major Study—Education
Thesis: "An Adequate Salary Schedule for the Galena Park Public Schools."
With honor.

Russell Burleigh Hagen, B. S., North Dakota Agricultural College, 1934.
Major Study—Mechanical Engineering
Thesis: "Synchronizing Motor Vehicle Wheels by Self-Controlled Independent Braking."

J. S. Hopper, B. S., Texas Technological College, 1933.
Major Study—Mechanical Engineering
Thesis: "A Determination of the Summer Comfort Zone at College Station, Texas."

Edward Lacey, B. S., Tri-State College, Angola, Indiana, 1935.
Major Study—Electrical Engineering
Thesis: "A Study of the Effect of Varying the Circuit Components of a 40 Meter Transmitter."

Wayne E. Long, B. S., A. and M. College of Texas, 1927.
Major Study—Mechanical Engineering
Thesis: "An Investigation of the Correlation Between Exhaust Gas Analysis, Combustion Efficiency and Other Operating Characteristics of Automobile Engines."

John P. Oliver, B. S., A and M. College of Texas, 1926.
Major Study—Architecture
Thesis: "The Time-Lag Factor in the Heating and Cooling of Building Materials."

John Malcolm Orchard, B. S., Texas College of Arts and Industries, 1934.
Major Study—Agricultural Education
Thesis: "A Study of Procedures Used in the Different States in Developing the Supervised Practice Program."
With honor.

Vestal Self Payne, B. S., A. and M. College of Texas, 1931.
Major Study—Agricultural Economics
Thesis: "A Study of the History of the Grange in Texas."

Claris B. Ray., B. S., A. and M. College of Texas, 1931.
Major Study—Agronomy
Thesis: "The Viability of Seed from Certain Species of Seed from Certain Species of Paspalum Found in Texas."
With honor.

Alfred Moultrie Scarborough, B. S., Sam Houston State Teachers College, 1932
Major Study—Rural Sociology
Thesis: "An Intensive Social Study of a Small Texas Rural Community (Tabor, Texas)."

Floyd Dee Shackelford, B. S., Sam Houston State Teachers College, 1931.
Major Study—Horticulture
Thesis: "A Comparison of Productivity of Marglobe Variety Tomato Plants Grown from Seed and Those Grown from Cuttings."

Joseph Cullen Sowers, B. S., Sam Houston State Teachers College, 1931.
Major Study—Agricultural Education
Thesis: "Some Causes for Dropped Department of Vocational Agriculture in High Schools of Texas."
With honor.

Cleophas Stanley Speake, B. A., Taylor University; B. S., Tri-State College.
Major Study—Electrical Engineering
Thesis: "The Study of Wave Form as Related to Interference Effects in a Mercury Vapor Tube D. C. System."

Paul D. Sturkie, B. S., A. and M. College of Texas, 1933.
Major Study—Genetics
Thesiss "Inheritance of Shank Color in Chickens."

Frederick B. Sullivan, B. S., Alabama Polytechnic Institute, 1925.
Major Study—Rural Sociology
Thesis: "A Study of Home and Community Conditions of Negroes in Cass County, Texas."

W. C. Vertrees, B. S., A. and M. College of Texas, 1931.
Major Study—Horticulture
Thesis: "Correlation Between the Sugars and the Acids of Texas Marsh Seedless Grapefruit at Different Stages of Maturity."

George Curtis Vidrine, B. A., Southwestern Louisiana Institute, 1932.
Major Study—Industrial Education
Thesis: "Revision of Junior High School Industrial Arts Courses Determined by Pupil Needs."
With honor.

Bachelor of Arts

In Liberal Arts (8)

Mayne Lewis Brumleu
John Stephen Doane
W. Ellisor
Daniel Henry Heyne
Nathan Simon Isenberg
James Wildon Longley
Francis Joseph Richter
Robert Edward Taylor

Bachelor of Science

In Agricultural Administration (3)

Elwood Henry Eschenburg
Carl Eugene Maxwell
J. P. Zinn

In Agricultural Education (8)

Waylon Garvin Gibson
Everette E. Jones
Homer Harris Lewis
Franklin Wilbourn Martin
Wallace Martin
Charles Gilbert Morton
John Ercelle Seamans
Ira Oquin Sturkie

In Agricultural Engineering (2)

Alvin C. Canuteson
Marion O. Crow

In Agriculture (5)

Thomas Jefferson Henry
Leonard Lloyd Meek
Jesse D. Moore
Paul Truman Riherd
Howard Morris Williamson

In Civil Engineering (3)

Thurman F. Henson
Manuel Ernesto Martinez
Arthur Slater Olson

In Electrical Engineering (2)

Terry James Loughridge
Homer L. Pearce, Jr.

In Industrial Education (2)

Russell Forest Balthis, Jr.
Jesse Dean Denson

In Mechanical Engineering (2)

Ernest Robert Holloway
William Lawrence Shepherd

In Petroleum Production Engineering (3)

Murray Basile Quigles, Jr.
Herbert Petrie Sergeant
Harris Underwood, Jr.

In Rural Education (5)

William David Bunting
Levi Hall Griffin
Morris Bailey Montgomery
Frank Cushman Pierce
Dalton Frank Sweeten

In Science (2)

Donald Sam Foster
Joseph Taylor Moss

Doctor of Veterinary Medicine (4)

Richard Kirk Allen
John H. Milliff
John Haskel Scruggs
Joseph Reeves White

DEGREE CONFERRED NOVEMBER 5, 1936

Doctor of Laws

Jesse Holman Jones

SUMMARY OF DEGREES CONFERRED

	1936 (Feb. 1, 1936 to Aug. 22, 1936)	GRAND TOTAL (1876-1936)
Advanced Degrees:		
M. S.	49	438
A. E.	—	1
Ch. E.	—	5
C. E.	2	16
E. E.	—	14
M. E.	—	12
Baccalaureate Degrees:		
School of Agriculture:		
B. S. A.	—	45
B. S. H.	—	5
B. S. in Horticulture	—	17
B. S. (Agriculture)	61	1,436
B. S. (Agri. Administration)	50	559
B. S. (Agricultural Education)	35	247
B. S. (Agricultural Engineering)	17	78
B. S. (Landscape Art)	4	35
Graduates (No Degrees)	1	9
School of Arts and Sciences:		
B. A.	23	227
B. S. (Rural Education)	11	73
B. S. (Science)	21	147
Graduates (No Degrees)	—	32
School of Engineering:		
B. C. E.	—	71
B. M. E.	—	40
B. S. (Architecture)	2	225
B. A.	8	8
B. S. (Architectural Engineering)	1	36
B. S. (Chemical Engineering)	24	381
B. S. (Civil Engineering)	23	845
B. S. (Electrical Engineering)	33	864
B. S. (General Engineering)	—	1

B. S. (Industrial Arts Education)	—	36
B. S. (Industrial Education	11	113
B. S. (Mechanical Engineering)	30	642
B. S. (Petroleum Prod. Eng.)	18	102
B. S. (Textile Engineering)	3	105
Graduates (No Degrees)	—	57
School of Veterinary Medicine:		
D. V. M.	17	86
Honorary Degrees:		
LL.D.	1	2
TOTAL	444	7,006

DISTINGUISHED STUDENTS

Session 1935-36

At the end of each session, students who have no grade below a C and who have accumulated not less than 81 grade points during the session are designated as "Distinguished Students".

Freshman Class

Bailey, John Arthur
Beckler, David Zander
Bennett, Joe Fred
Brumble, George Heath
Cerna, Othon Javier
Cravens, Gerald McAdoo
Crump, James Marion
Doyle, James Joe
Ehrke, Robert Howard
Evans, Joe Ellery
Garza, Alfredo Marshall
Glenn, James Clarence
Goodloe, Harry Frank
Greening, Vincent Eugene
Greenwald, William James
Hagan, Edward Emmett
Hall, Harold Lanier
Hampton, Glen Grisby
Handler, Sidney
Hey, Augustus Morrison
Hoerster, Samuel August
Howder, John William
Kahn, Frederick Milton
Kniaz, John
McCrory, Dorsey Elwood
McKinley, William Albert
Mullins, Orin Elbert
Polanovich, Anton Tony
Polifka, Frank Jacob Frederick
Rollins, Andrew Peach
Sample, Ernest Lynn
Scales, Wallace Wright
Shepherd, Allan Steele
Small, William Warren
Sprain, Louis Adolph
Staples, George Wilgus
Teller, Willis Albert
Thornton, Marvin Ira
Thrift, David Benjamin
Tierstein, Victor
Tolleson, Cecil Leslie
Tosch, Robert Leslie
Ward, Drue Simpson
Webber, Jack C.
Wehner, Byrom Theodore
Wehner, Herman Henry
Wendler, Charles Clifford
White, Eugene Marshall
Wilkinson, Albert Lee
Williamson, Marion Newton, Jr.
Wimer, Charles Janin
Winstein, George Dilworth
Witchell, Arthur Sidney, Jr.

Sophomore Class

Aiken, William Hambler
Altick, Frank Joseph
Anderson, Dan James
Armistead, Willis William
Arneson, Edwin P., Jr.
Barker, Albert Coleman
Becker, George, Jr.
Butler, Elwin DeWitt
Cameron, Robert Gerald
Carpenter, Robert William, Jr.
Chamberlain, Nugent Francis
Clark, Nathan Ray
Coleman, Paul Henderson
Collie, Robert Monroe
Cook, Truman F.
Coulson, Edward Donald
Dieb, John Mitchell
Drake, Ezra Wilbur
Duke, Bernie G.
Fink, Carl
Gentry, Frank Ross
Gerdes, Walter Frederick
Graham, Hugh
Grasso, Warren Alwin
Haggar, Charles
Harris, Lanier Curran
Hartman, Robert Henry
Hartman, William Thomas
Heaton, Cyrus Robert
Higdon, Hoke
Hughes, Thomas Kleberg
Johnson, Thomas Paxton
Jones, Noble David
Jones, Robert Lee
Joyner, Leroy Edgar, Jr.
Justice, Appleton Doyle
Kaplan, Monte
Keeling, Jack Rogers
Kothmann, Karl W.
McCutcheon, Alfred Holt
McNeill, William Gowan
Murrah, Tom A.
Pearce, Reggie Brown
Raney, Alfred Lafayette
Raouf, Ali Parviz
Roberts, William Daniel
Rucker, Robert Henry
Sakamoto, Seiichi
San Miguel, Rudolph Robert
Sims, Marion Wilson
Van Atten, James Leroy
Vieman, Lewis Dowe
Wheeler, Carroll Burke
White, Richard Edison
Whitley, Jim Barclay

Junior Class

Bowers, John Lowry
Braikovich, Andrew Christopher
Bratton, Alvis Trumon
Brown, James Nelson
Conolly, Richard Noble
Cunningham, Joseph Anderson
Daggett, Walter Merrell
Duke, Earl Taylor
Edmonds, John Robert
Frederick, Daniel Cecil
Furr, Ellis Edward
Griffin, William Richard, Jr.
Gruy, Henry Jones
Hale, Edgar Brewster
Horn, Jefferson Lee
Huffhines, Grover Howard
Jolley, James Clayton
Kay, H. D., Jr.
Koehler, Buford Ray
Ludwig, Raymond Nathan
McAdams, James Orien
Martin, Reuben Stone
Martinez, Homer Thomas
Maxwell, Carl Eugene
Munz, Carroll Philip
Olsen, Arthur S.
Peers, Harry L.
Power, James Aubrey
Pustejovsky, William Otho
Reeves, William Otho
Reser, Wayne Allan
Robert, Frank Emet
Robinson, John Henry
Seamans, John Ercelle
Sloan, William Henderson
Spencer, Bruce Nelson
Staples, Ercelle Horace
Warner, George Carter
Widney, Harvey Shearer

Senior Class

Appelt, Weldon Ferdinand
Boots, James Earl
Browning, Ben Marvin
Button, Earl David
Carter, Marvin Newson
Coleman, Charles Leonard
Dikeman, Matthew Monroe
Eakin, Larkin Cloyes
Edds, George Tyson
Gallman, Donald Poole
Hall, Albert C.
Harper, Irvin Washington
Harper, Roy Ernest
Harzke, Albert Charles
Heldenfels, James Riley
Hutchins, John Elton, Jr.
Ingraham, Chester Weston
Johnson, Glover Douglas
Joiner, James Robert
Kimball, Bok, Jr.
Knapp, George Parker
Kyle, Wood Barbee
Large, William Robert, Jr.
Lewis, Dudley Joe
Lock, Howard Harley
Loving, Robert Olin
McCollough, Vincent Aubrey
McIlhenny, Thomas H. F.
McIlroy, Winfield Wilson
Martin, Earl Francis
Martin, F. W.
Miller, Lee Bernard, Jr.
Mood, Bernard Farr
Moore, William Ewing
Mosesman, Max Abe
Mustain, Hollis Ulrich
Myers, Philip
Nash, William Elton
Pettit, A. D., Jr.
Pritchard, Elmer Marion
Quortrup, Earl Richard
Richardson, Grady Leon
Roberson, Jordan Jackson
Roberts, Lewis Melvin
Scott, Walter Lee
Sherwood, Robert Spencer
Shows, John Hilburn
Silvey, John Oscar
Steeger, Charles Joseph
Sudheimer, Robert Lesile
Terry, James Thomas
Walker, Alfred Hewlett
Whatley, James Arnold
Wiley, Bruce Foster
Williams, Chester H.
Winslar, Otha
Woodfin, George Smiley

Fifth Year Class

Bueno, Placido Oscar
Mattingly, Edward, Jr.
Rogers, Gerald Raymond

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