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OF THE

AGRICULTURAL AND MECHANICAL COLLEGE OF TEXAS

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ANNOUNCEMENTS FOR THE SESSION 1939-40

63

COLLEGE STATION, TEXAS

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1939

JULY

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THE COLLEGE CALENDAR

Summer Session of 1939

June 6,	Tuesday 8 a. m.-12 m., Registration for the first term.
June 6,	Tuesday 1 p. m.-5 p. m., Classes begin.
June 9,	Friday, Last day for registration in the College Division for credit during the first term.
July 4,	Independence Day.
July 14-15,	Friday, Saturday, First term examinations.
July 17,	Monday, 8 a. m.-12 m., Registration for the second term.
July 17,	Monday, 1 p. m.-5 p. m. Classes begin.
July 20,	Thursday, Last day for registration in the College Division for credit during the second term.
August 25-26,	Friday, Saturday, Second term examinations.

Regular Session of 1939-40

1939

September 18,	Monday, Entrance Examinations.
September 20,	Wednesday, Opening of the First Semester, Registration of new students.
September 20,	Wednesday 8 a. m.-5 p. m., Reexaminations.
September 21,	Thursday, Registration of old students.
September 21,	Thursday, Freshman Program.
September 22,	Friday, First Semester classes begin 8 a. m.
October 6,	Friday, 8-12 a. m., Psychological Test.
October 1-7,	Campus Church Week.
November 11,	Saturday, Observance of Armistice Day, 11 a. m.
Nov. 30-Dec. 2,	Inclusive, Thursday, Friday, Saturday, Thanksgiving Recess.
December 20,	Wednesday, Christmas recess begins 5 p. m.

1940

January 3,	Wednesday, 6 p. m., Christmas recess ends.
February 2-8,	Inclusive, Semester examinations.
February 9-12,	Friday, Monday, Registration for the Second Semester.
February 13,	Tuesday, Second Semester Classes begin at 8 a. m.
March 22-25,	Inclusive, Friday, Saturday, Monday, Spring recess.
June 1-7,	Inclusive, Semester examinations.
June 7,	Friday, Commencement sermon.
June 7-8,	Commencement.

OFFICERS OF ADMINISTRATION AND INSTRUCTION

BOARD OF DIRECTORS

Members

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
H. L. KOKERNOT, Jr., Banker and Cattleman.....Alpine
G. R. WHITE, Banker and Ranchman.....Brady

TERM EXPIRES 1945

EDWARD J. KIEST, Owner and Publisher, Dallas Times-Herald....Dallas
R. W. BRIGGS, Contractor.....Pharr
A. H. DEMKE, Poultryman.....Stephenville

Officers

F. M. LAW, President
WALTER G. LACY, Vice-President

Officers of Administration

Office of the President

Thomas Otto Walton, LL.D., President of the College.
Frank C. Bolton, M.S., LL.D., Vice President and Dean of the College.
Ike Ashburn, Executive Assistant to the President; Director of Public Information.
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.
Ormond Ralph Simpson, B.S., Chairman of the Student Labor Committee.

The Deans and Directors

Charles Puryear, M.A., C.E., LL.D., Dean Emeritus of the College.
Frank C. Bolton, M.S., LL.D., Vice President and Dean of the College.
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., Dean of the School of Veterinary Medicine.
Gibb Gilchrist, C.E., Dean of the School of Engineering.
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.
Ray G. Perryman, B.S., Recorder.
Mrs. R. D. Lowrey, B.A., Assistant Recorder.

Office of the Comptroller

W. H. Holzmann, Comptroller of Accounts.
Victor B. Edge, Auditor and Business Manager.
Charles A. Roeber, B.A., B.B.A., Accountant.
Clifford C. Edge, Cashier.

Office of the Commandant

George F. Moore, B.S., Colonel, Coast Artillery Corps, Commandant.
Joe E. Davis, B.S., First Lieutenant, Infantry Reserve, Assistant Commandant.

The Library

Thomas F. Mayo, Ph.D., Librarian.
Mrs. W. H. Thomas, Circulation Librarian.
Mrs. Audrey Adickes Barnard, B.S., Order Librarian.
Mrs. R. K. Fletcher, B.A., Cataloguer.
Mrs. Marguerite Bowles Mitchell, B.A., B.S. in L.S., Assistant Cataloguer.
Mrs. Mary Jeanne Treichler, B.A., B.S. in L.S., Assistant Cataloguer.
Miss Clara May McFrancis, Ph.B., B.S. in L.S., Assistant Cataloguer.
Mrs. Willie F. Calkins, B.S., M.A., Assistant Circulation Librarian.

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.
Robert D. Lowrey, B.A., Business Secretary.

The Publicity Office

G. Byron Winstead, B.A., Director of Publicity.
H. B. McElroy, Assistant to the Director.
Mrs. H. B. McElroy, B.A., Secretary.

Other Officers

B. D. Marburger, B.S., Superintendent of Buildings and College Utilities.
J. C. Hotard, 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.

FACULTY

(Figures in Parenthesis indicate date of first appointment on the College Staff and date of appointment to present position, respectively.)

HEADS OF DEPARTMENTS AND OTHER GENERAL OFFICERS

(Arranged according to date of appointment.)

Walton, Thomas Otto, President of the College, (1912, 1925)
LL.D., Baylor, 1927.

Bolton, Frank Cleveland, Vice President and Dean of the College; Professor of Electrical Engineering. (1909, 1937)
B.S., Mississippi State College, 1905; M.S., Ohio State, 1928; LL.D., Austin College,

Puryear, Charles, Dean Emeritus of the College. (1889, 1932)
M.A., Richmond College, 1881; C.E., Virginia, 1885; LL.D., Daniel Baker, 1914.

Kyle, Edwin Jackson, 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.

Ball, Oscar Melville, Curator of the Museum, (1903, 1937)
B.A., Virginia, 1898; M.A., Ph.D., Leipsig, 1903.

Bagley, John Brewer, Professor of Textile Engineering. (1905, 1908)
B.A., Wake Forest College, 1900.

Mitchell, Alva, Professor of Engineering Drawing. (1902, 1912)
B.C.E., Agricultural and Mechanical College of Texas, 1894.

Hedges, Charles Cleveland, Professor of Chemistry and Chemical Engineering. (1912, 1913)
B.S., Kentucky, 1906; A.B., Cornell, 1908; Ph.D., 1912.

Campbell, Charles Boyle, Professor of Modern Languages. (1903, 1914)
Ph.B., DePauw, 1900; Ph.D., Chicago, 1912.

Marsteller, Ross Perry, Dean of the School of Veterinary Medicine; Professor of Veterinary Medicine and Surgery. (1905, 1937)
D.V.M., Ohio State, 1905.

Silvey, Oscar William, Professor of Physics. (1916)
A.B., Indiana, 1907; A.M., 1910; Ph.D., Chicago, 1915.

Clark, Floyd Brazilia, Professor of Economics. (1916)
A.B., Richmond College, 1907; M.A., 1908; Ph.D., Johns Hopkins, 1914.

Bilsing, Sherman Weaver, Professor of Entomology. (1913, 1918)
A.B., Ohio State, 1912; M.A., 1913; Ph.D., 1924.

Scoates, Daniels, Professor of Agricultural Engineering. (1919)
B.S., Iowa State College, 1910; A.E., 1915.

Richey, John Jefferson, Professor of Civil Engineering. (1912, 1922)
B.S., Illinois, 1903; C.E., 1910.

Summey, George, Jr., Professor of English. (1922)
A.B., Southwestern Presbyterian, 1897; M.A., 1898; Ph.D., Columbia, 1919.

Williams, David Willard, Professor of Animal Husbandry. (1919, 1923)
B.S., Ohio State, 1915; M.S., Illinois, 1916.

Humbert, Eugene Peter, Professor of Genetics. (1916, 1923)
B.S.A., Iowa State College, 1906; M.S., Cornell, 1908; Ph.D., 1910.

Winkler, Charles Herman, Professor of Psychology; Director of the Summer Session. (1923, 1935)
B.S., Texas, 1904; M.A., 1914; Ph.D., Missouri, 1916.

Reid, Duncan Henry, Professor of Poultry Husbandry. (1923)
B.S., Wisconsin, 1919; M.S., 1922.

Hughes, William Lycurgus, Professor of Education. (1920, 1924)
B.A., Howard Payne College, 1920; B.S., Agricultural and Mechanical College of Texas, 1921; M.S., 1922.

Gammon, Samuel Rhea, Professor of History. (1925)
A.B., Washington and Lee, 1911; A.M., 1913; Ph.D., Johns Hopkins, 1921.

Steel, Ernest William, Professor of Municipal and Sanitary Engineering. (1925)
C.E., Cornell, 1920.

Williams, Edward LaFayette, Professor of Industrial Education. (1925)
B.S., Pittsburg, 1925; M.S., Agricultural and Mechanical College of Texas, 1930.

Hensel, Frederick William, Jr., Professor of Landscape Art. (1913, 1925)
B.S., Agricultural and Mechanical College of Texas, 1907; M.S., Cornell, 1914.

Leland, Thomas William, Professor of Accounting and Statistics. (1922, 1926)
B.A., Wisconsin, 1921; M.A., 1922; C.P.A., 1928.

Russell, Daniel, Professor of Rural Sociology. (1926, 1927)
A.B., Baylor, 1922; A.M., Chicago, 1931.

Giesecke, Frederick Ernest, 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.

Shepardson, Charles Noah, Professor of Dairy Husbandry. (1928)
B.S., Colorado State College, 1917; M.S., Iowa State College, 1924.

Langford, Ernest, Professor of Architecture. (1915, 1929)
B.S., Agricultural and Mechanical College of Texas, 1913; M.S., Illinois, 1924.

Crawford, Charles William, Professor of Mechanical Engineering. (1919, 1929)
B.S., Agricultural and Mechanical College of Texas, 1919; M.S., 1929.

Hughes, Martin Collins, Professor of Electrical Engineering. (1923, 1932)
B.S., Illinois, 1917; E.E., 1926.

Porter, Walter Lee, Professor of Mathematics. (1918, 1932)
A.B., Howard College, 1911; M.S., Agricultural and Mechanical College of Texas, 1926.

Brooks, Thomas Dudley, 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.

Howell, Eugene Jody, Registrar and Secretary of the Faculty. (1930, 1932)
B.S., Agricultural and Mechanical College of Texas, 1922; M.S., 1932.

Norton, Homer Hill, Director of Inter-Collegiate Athletics. (1934)

Vance, Harold, Professor of Petroleum Engineering. (1934)
B.S., California, 1923.

Barger, Justus Wheeler, Professor of Agricultural Economics. (1929, 1935)
B.S., Kansas State College, 1922; M.S., 1923; M.A., Leland Stanford, 1929.

[1]Alexander, Elmer Ross, Professor of Agricultural Education. (1919, 1935)
A.B., Baylor, 1919; B.S., Agricultural and Mechanical College of Texas, 1923; M.S., 1926.

Baker, Charles Laurence, Professor of Geology. (1935)
S.B., Chicago, 1908; M.A., California, 1916.

Adriance, Guy Webb, Professor of Horticulture. (1920, 1935)
B.S., Agricultural and Mechanical College of Texas, 1915; M.S., California, 1917; Ph.D., Michigan State College, 1929.

Burns, Patton Wright, Professor of Veterinary Physiology and Pharmacology (1926, 1935)
B.S., Agricultural and Mechanical College of Texas, 1923; D.V.M., 1926.

Mayo, Thomas Franklin, Professor of English; Librarian of the College. (1916, 1936)
B.A., Mississippi, 1913; A.M., Oxford, 1922; Ph.D., Columbia, 1934.

Trotter, Ide Peebles, Professor of Agronomy. (1936)
B.A., Mississippi College, 1915; B.S., Mississippi State College, 1918; M.S., 1921; Ph.D., Wisconsin, 1933.

Taylor, Walter Penn, Professor of Wild Game. (1935, 1937)
B.S., California, 1911; Ph.D., 1914.

Moore, George Fleming, Colonel, Coast Artillery Corps, Commandant and Professor of Military Science and Tactics. (1937)
B.S., Agricultural and Mechanical College of Texas, 1908.

Dunn, Ralph Clark, Professor of Veterinary Pathology. (1911, 1937)
D.V.M., Ohio State, 1911.

Lenert, August Albert, Professor of Veterinary Medicine and Surgery. (1919, 1937)
B.S., Agricultural and Mechanical College of Texas, 1914; D.V.M., Kansas City Veterinary College, 1917.

[1]On leave, 1938-39.

Gilchrist, Gibb, Dean of the School of Engineering. (1937)
C.E., Texas, 1909.

Leith, Thomas Seeter, Professor of Veterinary Anatomy. (1937)
D.V.M., Iowa State College, 1914.

Jaggi, Frederick Putnam, Jr., Professor of Veterinary Hygiene. (1937)
B.S., Agricultural and Mechanical College of Texas, 1924; D.V.M., 1926.

Doak, Clifton Childress, Professor of Biology. (1926, 1937)
B.S., North Texas State Teachers College, 1922; M.S., Agricultural and Mechanical College of Texas, 1928; Ph.D., Illinois, 1933.

Penberthy, Walter Lawren, Professor of Physical Education. (1926, 1937)
B.S., Ohio State, 1926.

Ashburn, Ike, Executive Assistant to the President; Director of Public Information. (1913, 1937)

Van Volkenberg, Horatio Luther, Professor of Veterinary Parasitology. (1937)
D.V.M., Cornell, 1918; B.S., 1919; M.S., 1921.

Ross, Henry, Professor of Agricultural Education; Acting Head of Department. (1935, 1938)
B.S., Agricultural and Mechanical College of Texas, 1923; M.S., 1935.

OTHER MEMBERS OF THE TEACHING STAFF

(Arranged Alphabetically)

Abbott, John Paul, Associate Professor of English. (1926, 1938)
B.A., Vanderbilt, 1925.

Adams, Ira Gillespie, Professor of Economics. (1927, 1935)
A.B., Evansville College, 1923; A.M., Minnesota, 1927.

Anderson, Frank Gist, Professor of Physical Education. (1920, 1927)
B.S., Mississippi College, 1916; M.A., 1917.

Apple, Spencer Butler, Jr., Instructor in Horticulture. (1933, 1935)
B.S., Agricultural and Mechanical College of Texas, 1933; M.S., 1936.

Arnold, Fred Hobson, Associate Professor of Agricultural Economics. (1936)
B.S., George Peabody College for Teachers, 1925; M.A., 1928; Ph.D., North Carolina, 1936.

Ashton, John, Associate Professor of Rural Sociology. (1937)
B.S., Agricultural and Mechanical College of Texas, 1906; M.A., Missouri, 1924; Ph.D., 1926.

[2]Bain, Douglas C., Instructor in Biology. (1939)
B.A., Tennessee, 1936; M.S., Agricultural and Mechanical College of Texas, 1937.

Bacon, Charles Summer, Jr., Assistant Professor of Geology. (1936, 1938)
B.S., Chicago, 1922; M.S., 1923; Ph.D., Vienna, 1926.

Baker, H. Dean, Instructor in Physics. (1938)
B.A., Wisconsin, 1932; Ph.D., 1938.

Beezley, Orva E., Lieutenant Colonel, Field Artillery, Professor of Military Science and Tactics. (1936)

Benson, Fred Jacob, Instructor in Civil Engineering. (1935, 1937)
B.S., Kansas State College, 1935; M.S., Agricultural and Mechanical College of Texas, 1938.

Berryman, Lloyd G., Instructor in Mechanical Engineering. (1938)
B.S., Michigan, 1937; M.S., 1938.

Bettger, William Hueter, Instructor in Modern Languages. (1935)
A.B., Colorado, 1934; A.M., 1935.

Binney, John Henry, Professor of Mathematics. (1925, 1937)
B.S., Sam Houston State Teachers College, 1924; M.A., Texas, 1925; Ph.D., Rice, 1933.

Bishop, Francis Frederick, Associate Professor of Industrial Chemistry. (1923, 1935)
B.S., Clarkson College of Technology, 1922; M.S., 1928.

Blumberg, Albert Asa, Instructor in Mathematics. (1924)
B.A., Texas, 1929; M.S., Agricultural and Mechanical College of Texas, 1938.

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[2]Graduate Assistant until Jan. 1, 1939. Appointed Instructor Jan. 1, 1939.

Bonham, Kelshaw, Assistant Professor of Wild Game. (1938)
B.S., Washington, 1931; M.S., 1933; Ph.D., 1937.

Brayton, Harold Renshaw, Professor of Inorganic Chemistry. (1917, 1922)
A.B., Wisconsin, 1914; M.S., 1915.

Breland, James Edward, Assistant Professor of Engineering Drawing. (1930, 1937)
B.S., Mississippi State College, 1928.

Bremner, Raymond Wilson, Instructor in Chemistry. (1937)
B.S., Washington, 1928; M.S., 1932; Ph.D., 1937.

Bretz, Theodore Walter, Instructor in Biology. (1938)
B.S., Ohio State, 1930; M.S., Iowa State College, 1931; Ph.D., Ohio State, 1937.

Brewer, Alexander Van, Professor of Mechanical Engineering. (1922, 1930)
B.S., Purdue, 1913; M.E., 1925; M.S., Agricultural and Mechanical College of Texas, 1937.

Brewer, Burns W., Instructor in Mathematics. (1938)
A.B., Missouri, 1935; A.M., 1936; Ph.D., 1938.

Brewster, Weldon, Instructor in Biology. (1938)
B.S., North Teaxs State Teachers College, 1926; M.A., Texas, 1932.

Brison, Fred Robert, Professor of Horticulture. (1921, 1938)
B.S., Agricultural and Mechanical College of Texas, 1921; M.S., Michigan State College, 1931.

Brown, Sidney Overton, Instructor in Biology. (1936)
B.A., Texas, 1932; Ph.D., 1936.

Burback, Claude Franklin, Captain, Field Artillery, Assistant Professor of Military Science and Tactics. (1937)
B.S., United States Military Academy, 1925.

Burchard, C. Winfield, Professor of Organic Chemistry. (1917, 1922)
A.B., Allegheny College, 1908; M.A., Wisconsin, 1911.

Burt, Frederick Arthur, Professor of Geology. (1921, 1938)
B.S., Colgate, 1908; M.S., Chicago, 1929.

Cash, William Vaughn, Associate Professor of Architecture. (1937)
M.S., Massachusetts Institute of Technology, 1925; M. Arch., 1925.

Cella, Joseph A., Captain, Field Artillery, Assistant Professor of Military Science and Tactics. (1938)
B.S., United States Military Academy, 1923; M.S., Purdue, 1930.

Chalk, Alfred Franklin, Instructor in Economics. (1934, 1936)
B.A., Baylor, 1934; M.S., Agricultural and Mechanical College of Texas, 1936.

Chaney, Jesse Gerald, Assistant Professor of Mathematics. (1928, 1937)
A.B., Southwestern, 1924; M.A., Texas, 1930.

Chapman, Larue Claude, Instructor in Agronomy. (1937)
B.S., Illinois, 1933; M.S., 1935.

Cherry, Tom D., Instructor in Agricultural Economics. (1938)
B.S., Sam Houston State Teachers College, 1932.

Christian, Robert L., Lieutenant Colonel, Infantry, Professor of Military Science and Tactics. (1938)
B.A., St., Johns College, 1914; B.A., Maryland, 1914.

Christy, Donald, Assistant Professor of Agricultural Engineering. (1933, 1936)
B.S., Kansas State College, 1933; M.S., Agricultural and Mechanical College of Texas, 1938.

Clark, Rupert Esmond, Instructor in English. (1936)
B.A., Texas, 1934; M.A., 1936.

Cofer, David Brooks, Professor of English. (1910, 1922)
A.B., Centre College, 1907; M.A., Wisconsin, 1927.

Coulter, John Lee, Jr., Instructor in English. (1937)
A.B., American University, 1934; M.A., North Carolina, 1936.

Dahlberg, Frank Iver, Assistant Professor of Animal Husbandry. (1936, 1937)
B.S., Agricultural and Mechanical College of Texas, 1925; M.S., Wisconsin, 1930.

Darnell, Albert Laurie, Professor of Dairy Husbandry. (1914, 1925)
B.S., Mississippi State College, 1913; M.A., Missouri, 1916.

Davis, Daniel Rowland, Instructor in Rural Sociology. (1933, 1935)
B.S., Agricultural and Mechanical College of Texas, 1932; M.S., 1935.

Davis, William B., Professor of Wild Game. (1937)
A.B., Chico State Teachers College, 1933; M.A., California, 1936; Ph.D., 1937.

Denhardt, Robert M., Instructor in Agricultural Economics. (1938)
A.B., California, 1936; M.S., 1937.

Dillingham, Harley Clay, Professor of Electrical Engineering. (1922, 1930)
B.S., Agricultural and Mechanical College of Texas, 1922; A.M., Columbia, 1930.

Dimmitt, Lilburn John, Instructor in Physical Education. (1935)

Dodson, James Lingle, Instructor in History. (1938)
A.B., Colorado College, 1933; A.M., Princeton, 1935; Ph.D., Colorado College, 1937.

Dooley, Glenn, Instructor in Chemistry. (1937)
B.S., Southwestern Missouri State Teachers College, 1928; M.S., Iowa, 1932; Ph.D., 1935.

Downard, Richard Walter, Instructor in Mechanical Engineering. (1913, 1920)

Drinkwater, John G., Major, Corps of Engineers, Professor of Military Science and Tactics. (1936)
M.E., Stevens Institute of Technology, 1909.

Driskill, Frank Augustus, Instructor in Economics. (1935, 1937)
B.S., Southwestern, 1932; M.S., Agricultural and Mechanical College of Texas, 1937.

Dulan, Harold Andrew, Instructor in Accounting and Statistics. (1937)
B.B.A., Texas, 1936; M.B.A., 1937.

Dyer, Frederic Von Mohl, Major, Infantry, Assistant Professor of Military Science and Tactics. (1937)
LL.B., Texas, 1907.

Eads, Richard Arthur, 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.

Easley, Tildon, Associate Professor of Agronomy. (1938)
B.S., Mississippi State College, 1932; M.S., 1933.

Edds, George Tyson, Instructor in Veterinary Physiology and Pharmacology. (1936)
B.S., Agricultural and Mechanical College of Texas, 1936; D.V.M., 1936; M.S., 1938.

Edmonson, Nat, Professor of Mathematics. (1931, 1937)
B.A., Austin College, 1924; M.A., 1925; Ph.D., Rice, 1929.

Ekfelt, Fred E., Instructor in English. (1938)
B.A., Iowa, 1931; M.A., 1932.

Elkins, Rollin LaFayette, Instructor in Economics. (1933, 1935)
B.A., Agricultural and Mechanical College of Texas, 1933; M.S., 1935.

Elmquist, Karl Erik, Instructor in English. (1935)
B.A., Southern Methodist, 1932.

Enslow, Phillip Harrison, Captain, Field Artillery, Assistant Professor of Military Science and Tactics. (1935)
B.S., United States Military Academy, 1923.

[3]Evans, Titus Carr, Instructor in Biology. (1936)
B.A., Baylor, 1929; M.S., Iowa, 1931; Ph.D., 1934.

Faires, Virgil Moring, Professor of Mechanical Engineering. (1926, 1930)
B.S., Colorado, 1922; M. E. 1926; M.S., 1927.

Finlay, Albert Edward, Instructor in Mathematics. (1929)
B.S., Peabody College, 1929; M.A., 1929.

Finney, Clarence Jack, Professor of Architecture, (1926, 1934)
B.S., Agricultural and Mechanical College of Texas, 1922; Ecole des Beaux-Arts, Fontainbleau, 1923.

Fleming, David Winston, Instructor in Mechanical Engineering. (1927)
B.S., Agricultural and Mechanical College of Texas, 1930.

Fouraker, Leroy Levi, Associate Professor of Electrical Engineering. (1920, 1927)
B.S., Agricultural and Mechanical College of Texas, 1914; M.S., 1927.

Freeman, Theodore Russel, Instructor in Dairy Husbandry. (1937)
B.S., Kansas State College, 1929; M.S., Oklahoma Agricultural and Mechanical College, 1933; Ph.D., Pennsylvania State College, 1937.

Garretson, Harold H., Instructor in Chemistry. (1938)
A.B., Whitman College, 1932; M.S., Washington, 1933.

Garrison, Lloyd R., Captain, Field Artillery, Assistant Professor of Military Science and Tactics. (1936)
B.A., Texas, 1914; M.A., 1915.

Gettys, Plato L., Professor of Business Law. (1938)
A.B., Oklahoma, 1919; LL.B., American University, 1922; M.A., Oklahoma, 1927; Ph.D., Leland Stanford, 1931.

[3]On leave, 1938-39.

Gibbons, Elder Harris, Assistant Professor of Biology. (1925, 1927)
B.S.A., Tennessee, 1925; S.M., Chicago, 1929.

Glenn, Edgar Wilson, Associate Professor of Industrial Education. (1928, 1930)
B.S., Illinois, 1924; B.S., Agricultural and Mechanical College of Texas, 1930; M.S., 1931.

Godbey, Chauncey Barger, Professor of Genetics. (1926, 1936)
B.S., Kentucky, 1925; M.S., Agricultural and Mechanical College of Texas, 1926.

Godbold, Nat Hartwell, Instructor in Physics. (1937)
B.S., Texas, 1932; M.S., 1933; Ph.D., 1937.

Goldich, Samuel S., Assistant Professor of Geology. (1936, 1938)
B.A., Minnesota, 1929; M.A., Syracuse, 1930; Ph.D., Minnesota, 1936.

Goodheart, Clarence Francis, Instructor in Electrical Engineering. (1938)
B.S., California Institute of Technology, 1936; M.S., Ohio State, 1938.

Grandi, Louis Lawrence, Instructor in Electrical Engineering. (1937)
B.S., California, 1934; M.S., 1937.

Green, Roy C., Instructor in Electrical Engineering. (1938)
B.S., Texas, 1937.

Greer, Clayton Alvis, Instructor in English. (1938)
B.A., Texas, 1921; Ph.D., 1937.

Gross, Henry Emmett, Associate Professor of Petroleum Engineering. (1938)
B.S., Missouri School of Mines, 1928; M.S., Illinois, 1933; E. of Mines, Missouri School of Mines, 1934.

Gunter, Percy Glydon, Associate Professor of English. (1911, 1922)
A.B., Elon College, 1909; M.A., North Carolina, 1910.

Hall, Dan, Assistant Professor of Mathematics. (1928, 1937)
A.B., North Carolina, 1927; A.M., 1928.

Halperin, Hillel, Professor of Mathematics. (1920, 1925)
E.E., Liege, 1908; A.M., Columbia, 1915.

Hamilton, Thomas Rowan, Professor of Accounting and Statistics. (1929, 1937)
A.B., Washington and Lee, 1917; M.S., Columbia, 1924; Ph.D., 1938.

Hampton, Herbert Elwood, Instructor in Agronomy. (1938)
B.S., Agricultural and Mechanical College of Texas, 1937.

Hanks, Lester, Assistant Professor of Agricultural Economics. (1936, 1938)
B.S., Agricultural and Mechanical College of Texas, 1930; M.B.A., Texas, 1936.

Harrington, Marion Thomas, Assistant Professor of Chemistry. (1924, 1934)
B.S., Agricultural and Mechanical College of Texas, 1922; M.S., 1927.

Harris, William Donald, Assistant Professor of Chemistry. (1935, 1937)
B.S., Iowa State College, 1929; M.S., 1931; Ph.D., 1934.

Harter, Edward Lin, Assistant Professor of Chemistry. (1921, 1926)
A.B., Missouri Wesleyan, 1919; M.A., Kansas, 1938.

Hauer, Louis Frederick, Instructor in English. (1937)
B.A., Debuque, 1931; M.A., Iowa, 1933.

Haupt, Lewis McDowell, Jr., Assistant Professor of Electrical Engineering. (1930, 1935)
B.S., Agricultural and Mechanical College of Texas, 1927; M.S., 1935.

Hays, Jack P., Associate Professor of Petroleum Engineering. (1937)
B.S., California, 1934.

[4]Hays, John Que, Assistant Professor of English. (1929, 1935)
A.B., Missouri, 1929; M.A., 1932.

Hazel, Lanoy Nelson, Instructor in Genetics. (1938)
B.S., Texas Technological College, 1933; M.S., Agricultural and Mechanical College of Texas, 1938.

Hedgcock, Ernest Duval, Instructor in English. (1936)
B.A., Tennessee, 1917; M.A., Texas, 1936.

Henderson, Lloid, Associate Professor of Agricultural Education. (1938)
B.S., Agricultural and Mechanical College of Texas, 1930.

Higgins, Paul Raymond, Instructor in Mechanical Engineering. (1937)
B.S., Oregon State Agricultural College, 1937.

Hill, Ralph E., Major, Coast Artillery Corps, Professor of Military Science and Tactics. (1936, 1937)

[4]On leave, 1938-39.

Hillman, John Rolfe, Instructor in Mathematics. (1938)
B.S., Millsaps College, 1923; M.A., Missouri, 1929.

Holland, Bryant Richard, Instructor in Chemistry. (1936, 1937)
B.A., North Texas State Teachers College, 1936; M.S., Agricultural and Mechanical College of Texas, 1937.

Hollingshead, Frank Adolphus, Captain, Coast Artillery Corps, Assistant Professor of Military Science and Tactics. (1937)
B.S., Agricultural and Mechanical College of Texas, 1916.

Hopkins, Sewell Hepburn, Assistant Professor of Biology. (1935, 1936)
B.S., College of William and Mary, 1927; M.A., Illinois, 1929; Ph.D., 1933.

Hopper, John Samuel, Assistant Professor of Mechanical Engineering. (1933, 1938)
B.S., Texas Technological College, 1933; M.S., Agricultural and Mechanical College of Texas, 1936.

Horsley, Wendell, Assistant Professor of Landscape Art. (1937)
B.S.F., Colorado State College, 1926.

Hunt, Robert Lee, 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.

Hurt, John Tom, Instructor in Mathematics. (1936)
A.B., Rice, 1931; M.S., 1932; Ph.D., 1935.

Irvin, William Ross, Major, Cavalry, Professor of Military Science and Tactics. (1934)

Jackson, Wilbur Mortrude, Instructor in Mathematics. (1933, 1935)
B.S., Agricultural and Mechanical College of Texas, 1933; M.S., 1935.

Jakkula, Arne Arthur, Associate Professor of Civil Engineering. (1937)
B.S., Minnesota, 1926; M.S., 1927; Ph.D., Michigan, 1933.

Jennings, Walter, Instructor in Mathematics. (1938)
B.S., Ohio State, 1934; M.S., 1935; Ph.D., 1936.

Jensen, Frederick William, Professor of Chemistry. (1925, 1930)
B.S., Nebraska, 1920; M.S., 1923; Ph.D., 1925.

Johnson, William Linnaeus, Instructor in Mathematics. (1937)
B.A., Tennessee, 1929; M.A., 1930.

Johnston, Horace Greeley, Associate Professor of Entomology. (1927, 1937)
B.S., Mississippi State College, 1926; M.S., Iowa State College, 1928; Ph.D., 1936.

Jones, Beecher Calvin, Assistant Professor of Chemistry. (1921, 1926)
A.B., Baylor, 1921; B.S., Agricultural and Mechanical College of Texas, 1923; M.S., 1926.

Jones, David Cluie, Professor of Mathematics. (1909, 1927)
B.A., Emory, 1908.

Jones, Fred Rufus, Professor of Agricultural Engineering. (1921, 1935)
B.S., Wisconsin, 1915; M.S., Iowa State College, 1931.

Jones, Luther Goodrich, Professor of Agronomy. (1919, 1926)
B.S., Princeton, 1917; M.S., Agricultural and Mechanical College of Texas, 1921; Ph.D., Cornell, 1927.

Karow, Marty G., Assistant Professor of Physical Education. (1938)
B.S., Ohio State, 1927.

Kelly, Walter Robert, Instructor in Chemistry. (1938)
B.S., Syracuse, 1938; Ph.D., 1933.

Kent, Jack Thurston, Instructor in Mathematics. (1936)
A.B., Lambuth College, 1930; M.A., Arkansas, 1931.

Ketchersid, James Randall, Instructor in Veterinary Medicine and Surgery. (1938)
B.S., Kansas State College, 1935; D.V.M., 1937.

Key, Percy Clark, Assistant Professor of English. (1924, 1927)
B.A., Texas Christian, 1917; M.A., Vanderbilt, 1918.

Kimball, Preston W., Instructor in Agricultural Economics. (1938)
B.S., Illinois, 1935; M.S., 1936.

Klipple, Edmund Chester, Assistant Professor of Mathematics. (1935, 1937)
B.A., Texas, 1926; Ph.D., 1932.

Koenig, Louis Adolph, Assistant Professor of Chemistry. (1920, 1922)
B.A., Texas, 1917.

Koss, Walter Eddie, Instructor in Mathematics. (1937)
B.A., Alabama, 1935; M.A., 1936.

LaMotte, Charles, Associate Professor of Biology. (1930, 1937)
B.A., Texas, 1929; M.A., 1929; Ph.D., Illinois, 1937.

Lange, Stephen Walter, Assistant Professor of Veterinary Anatomy. (1938)
B.S., Michigan State College, 1935; D.V.M., 1935.

Legatski, Leo M., Instructor in Civil Engineering. (1938)
B.S.E., Michigan, 1931; M.S.E., 1932; Sc.D., 1937.

[5]Leonard, Oliver Andrew, Instructor in Biology. (1937)
B.S., Washington State College, 1933; M.S., 1935; Ph.D., Iowa State College, 1937.

Lindsay, James D., Professor of Chemical Engineering. (1938)
B.S., Michigan, 1924; M.S., 1925; Ph.D., 1934.

Little, Van Allen, Professor of Entomology. (1923, 1937)
B.A., Sam Houston State Teachers College, 1922; M.S., Agricultural and Mechanical College of Texas, 1925.

Long, Wayne Eggleston, Professor of Mechanical Engineering. (1930, 1938)
B.S., Agricultural and Mechanical College of Texas, 1927; M.S., 1936.

Loving, Robert O., Instructor in Engineering Drawing. (1936)
B.S., Agricultural and Mechanical College of Texas, 1936.

Ludlum, Robert P., Assistant Professor of History. (1935, 1937)
A.B., Cornell, 1930; M.A., 1932; Ph.D., 1935.

Lund, Just Soren Thompson, Instructor in Agricultural Economics. (1938)
B.S., Minnesota, 1928; M.A., Hawaii, 1934; Ph.D., Cornell, 1937.

Luther, Herbert Adesla, Instructor in Mathematics. (1937)
B.A., Pittsburgh, 1934; M.S., Iowa, 1935; Ph.D., 1937.

Lyle, Robert Reed, Instructor in Mathematics. (1937)
B.S., Washington and Jefferson College, 1931; A.M., Buffalo, 1933.

[6]McCarter, William Warren, Instructor in Mechanical Engineering. (1922)

McCorkle, Willard Homer, Associate Professor of Physics. (1924, 1935)
B.A., Iowa, 1924; M.S., 1928; Ph.D., 1935.

McCulley, William Straight, Instructor in Mathematics. (1934, 1937)
B.A., Iowa, 1932; M.S., Agricultural and Mechanical College of Texas, 1937.

McCurdy, John Alan, Instructor in Veterinary Anatomy. (1938)
B.S., Iowa State College, 1938; D.V.M., 1938.

McDonald, A. P., Instructor in Mechanical Engineering. (1938)
B.S., Agricultural and Mechanical College of Texas, 1930.

McGee, Roger Valentine, Instructor in Mathematics. (1928)
B.S., Agricultural and Mechanical College of Texas, 1922; M.S., 1938.

McGinnis, Nestor Massie, Professor of Landscape Art. (1915, 1930)
B.S., Agricultural and Mechanical College of Texas, 1908.

McGuire, John Gilbert, Instructor in Engineering Drawing. (1933, 1935)
B.S., Agricultural and Mechanical College of Texas, 1932; M.S., 1937.

McNew, John Thomas Lamar, Professor of Highway Engineering. (1920, 1925)
B.S., Agricultural and Mechanical College of Texas, 1920; M.S., 1926; C. E., Iowa State College, 1925.

McQuillan, Herbert Raymond, Associate Professor of Physical Education. (1935)
B.S., North Dakota State College, 1916.

Mackey, Arthur Kapp, Professor of Animal Husbandry. (1925, 1928)
B.S., Purdue, 1921; M.S., Illinois, 1923.

Markle, Elias Ward, Professor of Electrical Engineering. (1921, 1930)
B.S., Pennsylvania State College, 1913; M.S., Agricultural and Mechanical College of Texas, 1930.

Martin, Albert Dow, Associate Professor of Mathematics. (1921, 1925)
B.S., Gunter College, 1908; B.A., Texas Christian, 1920.

Melass, Vivian Hope, Instructor in Animal Husbandry. (1938)
B.S., Cornell, 1935; M.S., Kansas State College, 1936; Ph.D., Cornell, 1938.

Mertz, Earl Richard, Instructor in Mechanical Engineering. (1936)
B.S., Missouri School of Mines, 1933.

Middleton, Errol Bathurst, Associate Professor of Chemistry. (1922, 1938)
B.A., Illinois, 1919; M.S., 1921; Ph.D., 1938.

Miller, James Marshall, Instructor in Architecture. (1937)
B.Arch., Southern California, 1933; M.A., 1937.

Miller, Lawrence A., Instructor in Animal Husbandry. (1937, 1938)
B.S., Colorado State College, 1936.

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[5]Resigned, January 31, 1939.
[6]Died, December 29, 1938.

Milliff, John Henry, Assistant Professor of Veterinary Pathology. (1931, 1938)
B.S., Agricultural and Mechanical College of Texas, 1931; M.S., 1934; D.V.M., 1936.

Mitchell, John Weems, Professor of Mathematics. (1907, 1925)
A.B., Maryville College, 1904.

Mogford, Joseph Sayers, Professor of Agronomy. (1925, 1937)
B.S., Agricultural and Mechanical College of Texas, 1916; M.S., 1920.

Montfort, Peter Thorp, Associate Professor of Agricultural Engineering. (1928, 1935).
B.S., Agricultural and Mechanical College of Texas, 1921.

Moore, Albert Vernon, Associate Professor of Dairy Husbandry. (1937)
B.S., Purdue, 1927; M.S., 1933.

Moore, Bill C., Instructor in Mathematics. (1937)
A.B., Kansas, 1929; A.M., 1931; M.A., Princeton, 1937.

Morgan, Joseph, Instructor in Physics. (1938)
B.A., Temple, 1931; M.A., 1933; Ph.D., Massachusetts Institute of Technology, 1934.

Morgan, Stewart Samuel, Professor of English. (1921, 1935)
B.A., Cincinnati, 1926; M.A., Ohio State, 1927; Ph.D., 1933.

Mullins, Benjamin Franklin Kelsa, Instructor in Engineering Drawing. (1921, 1937)
A.B., Emory, 1919; M.S., 1922; M.R.E., Southwestern Baptist Theological Seminary, 1928.

Munson, Thurmond Armour, Professor of Hydraulic Engineering. (1920, 1926)
B.S., Agricultural and Mechanical College of Texas, 1910; C.E., Iowa State College, 1924; M.S., 1925.

Murphey, Charles Ernest, Assistant Professor of Animal Husbandry. (1936, 1938)
B.S., Kansas State College, 1935; M.A., Missouri, 1936.

Nelson, Thomas Robert, Assistant Professor of Mathematics. (1925)
B.A., East Texas Normal College, 1917; M.A., Texas, 1922.

Nelson, Al B., Instructor in History. (1937)
A.B., Texas Christian, 1932; M.A., 1935; Ph.D., California, 1937.

Nelson, Alfred Magrel, Instructor in Mechanical Engineering. (1938)
B.S., Illinois, 1938.

Nutter, Parks Adair, Associate Professor of Economics. (1933, 1935)
A.B., Michigan, 1920; A.M., Iowa, 1930.

Oliver, John Percy, Instructor in Engineering Drawing. (1935, 1936)
B.S., Agricultural and Mechanical College of Texas, 1926; M.S., 1936.

Orchard, John Malcolm, Assistant Professor of Agricultural Education. (1935, 1937)
B.S., Texas College of Arts and Industries, 1934; M.S., Agricultural and Mechanical College of Texas, 1936.

Orr, Joseph Anderson, Associate Professor of Civil Engineering. (1928, 1935)
B.S., Agricultural and Mechanical College of Texas, 1922; M.S., 1933.

Orr, Raymond, Major, Infantry, Assistant Professor of Military Science and Tactics. (1932, 1937)
A.B., Chattanooga, 1916.

Ott, Herbert I., Instructor in Veterinary Physiology and Pharmacology. (1938)
B.S., Manchester College, 1934; D.V.M., Ohio State, 1938.

Owens, William A., Instructor in English. (1937)
B.A., Southern Methodist, 1932; M.A., 1933.

Paine, Leland Shumway, Associate Professor of Agricultural Economics. (1927, 1930)
B.A., Nebraska, 1922; M.A., Wisconsin, 1926.

Parnell, Edward D., Associate Professor of Poultry Husbandry. (1938)
B.S., Agricultural and Mechanical College of Texas, 1923; M.S., 1934.

Peach, Charles Earl, Instructor in Agricultural Engineering. (1937)
B.S., Mississippi State College, 1936; M.S., Iowa State College, 1937.

Pearson, Paul Brown, Professor of Animal Husbandry. (1937)
B.S., Brigham Young, 1928; M.S., Montana State College, 1930; Ph.D., Wisconsin, 1937.

Potts, Richard C., Assistant Professor of Agronomy. (1935, 1936)
B.S., Oklahoma Agricultural and Mechanical College, 1935.

Potts, William McDaniel, Professor of Chemistry. (1926, 1938)
S.B., Chicago, 1921; S.M., 1927; Ph.D., 1937.

Powell, Frank Warren, Instructor in English. (1937)
B.A., Austin College, 1920; M.A., Texas, 1928.

Powers, John Graham, Assistant Professor of Textile Engineering. (1927)

Quisenberry, John Henry, Associate Professor of Genetics. (1936)
B.S., Agricultural and Mechanical College of Texas, 1931; M.S., Illinois, 1933; Ph.D., 1936.

Ransdell, Clifford Howell, Instructor in Engineering Drawing. (1937)
B.S., Texas Technological College, 1937.

Ransom, William Street, Instructor in English. (1938)
B.A., Vanderbilt, 1932; M.A., Vanderbilt, 1933.

Reeves, Robert Gatlin, Professor of Biology. (1928)
B.S., Mississippi State College, 1922; M.S., 1923; Ph.D., Iowa State College, 1928.

Rice, James Wilson, Major, Chemical Warfare Service, Professor of Military Science and Tactics. (1935)
B.S., Nevada, 1927; M.S., Massachusetts Institute of Technology, 1930.

Roberts, Thomas D., Captain, Cavalry, Assistant Professor of Military Science and Tactics. (1936)
B.S., United States Military Academy, 1924.

Rode, Norman Frederick, Professor of Electrical Engineering. (1922, 1930)
B.S., Clemson College, 1919; M.S., Agricultural and Mechanical College of Texas, 1929.

Rollins, John Wesley, Professor of Physical Education. (1935)
B.S., Agricultural and Mechanical College of Texas, 1917.

Ross, James Wendell, Assistant Professor of Mathematics. (1926, 1934)
B.A., Texas, 1923; M.A., 1931.

[7]Rushing, Reginald, Instructor in Accounting and Statistics. (1939)
B.A., Southwestern, 1926; M.B.A., Texas, 1932.

[7a]Sakowitz, Alexander Hirsch, Instructor in English. (1936)
B.S., Pennsylvania, 1931; B.A., Cambridge, 1934.

Samuelson, Gilbert Justus, Assistant Professor of Chemistry. (1935, 1937)
B.S., Chadron State Normal College, 1929; M.S., Nebraska, 1932; Ph.D., 1934.

Sanders, Isaac Christopher, Associate Professor of Physics. (1921, 1927)
B.A., Rice, 1917; M.A., Texas, 1925.

Sandstedt, Carl Edward, Professor of Civil Engineering. (1923, 1938)
A.B., Leland Stanford, 1910; M.S., Agricultural and Mechanical College of Texas, 1928.

Scheldrup, Sverri I., Instructor in Economics. (1938)
B.A., North Dakota, 1928; M.A., 1931.

Schipper, Arthur, Instructor in Biology. (1937)
B.A., Coe College, 1930; M.S., Iowa, 1932; Ph.D., 1937.

Schlesselman, George Wilhelm, Professor of Agricultural Economics. (1934, 1938)
B.A., Iowa State Teachers College, 1927; M.A., Clark, 1928; Ph.D., Nebraska, 1935.

Schoepfle, George Kern, Assistant Professor of Physics. (1935, 1937)
A.B., Oberlin College, 1927; Ph.D., Cornell, 1933.

Schuessler, Norman George, Associate Professor of Animal Husbandry. (1935)
B.S., Agricultural and Mechanical College of Texas, 1931.

Sellner, Edward Pius, Instructor in Civil Engineering. (1936, 1937)
B.S., Case School of Applied Science, 1935; M.S., Agricultural and Mechanical College of Texas, 1937.

Sherrill, William Reeder, Assistant Professor of Agricultural Education. (1928, 1938)
B.S., Agricultural and Mechanical College of Texas, 1928.

Shute, Benjamin S., Captain, Corps of Engineers, Assistant Professor of Military Science and Tactics. (1938)
B.S., United States Military Academy, 1928; C.E., Cornell, 1931.

Sikes, James Herbert, Instructor in Entomology. (1937)
A.B., Abilene Christian College, 1922; M.S., Agricultural and Mechanical College of Texas, 1931.

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[7]Appointed, February 1, 1939.
[7a]On leave, 1938-39.

Simmang, Clifford M., Instructor in Mechanical Engineering. (1937, 1938)
B.S., Agricultural and Mechanical College of Texas, 1936; M.S., 1938.

Simpson, William Maurice, Assistant Professor of Accounting and Statistics. (1933, 1937)
B.S., Agricultural and Mechanical College of Texas, 1933; C.P.A., 1938.

Smith, Elmer Gillam, Associate Professor of Physics. (1924, 1938)
A.B., Amherst College, 1919; M.S., Agricultural and Mechanical College of Texas, 1925; B.S., 1934.

Smith, Frederick McIntosh, Instructor in Chemistry. (1937)
B.S., Nevada, 1931; M.S., Syracuse, 1933; Ph.D., 1937.

Smith, J. Fred, Jr., Instructor in Geology. (1938)
B.S., Southern Methodist, 1933; M.A., Harvard, 1936.

Snuggs, Roland Edward, Instructor in Chemistry. (1924)
A.B., Georgetown College, 1920; M.S., Florida, 1923; B.S., Agricultural and Mechanical College of Texas, 1937.

Spahr, Ernest Kenneth, Associate Professor of English. (1921, 1935)
B.A., Milligan College, 1919; M.A., Virginia, 1921.

Spangler, Harold Monroe, Instructor in Veterinary Medicine and Surgery. (1937)
D.V.M., Ohio State, 1935.

Spence, Thomas Reese, Professor of Civil Engineering. (1938)
B.S., Agricultural and Mechanical College of Texas, 1913; C.E., Cornell, 1917.

Spencer, Henry Cecil, Associate Professor of Engineering Drawing. 1929, 1937)
A.B., Baylor, 1929; M.S., Agricultural and Mechanical College of Texas, 1931.

Spriggs, Charles Orvine, Professor of Public Speaking. (1926, 1927)
A.B., Indiana. 1924; M.A., Northwestern, 1930.

Steen, Ralph Wright, Associate Professor of History. (1935, 1937)
A.B., McMurry College, 1927; M.A., Texas, 1929; Ph.D., 1934.

Stephens, George Darwin, Instructor in English. (1937)
B.A., Trinity, 1931; M.A., Texas, 1933.

Stevens, Albert B., Professor of Petroleum Engineering. (1934, 1937)
B.S., California, 1927; M.S., Southern California, 1932.

Stickney, Louis Simmons, Major, Signal Corps, Professor of Military Science and Tactics. (1935)

Stone, Charles Weldon, Instructor in English. (1927, 1935)
A.B., Baylor, 1926; M.A., Southern Methodist, 1927.

[8]Stubbs, Stoney Milton, Instructor in Accounting and Statistics. (1937)
B.S., Agricultural and Mechanical College of Texas, 1934.

Sugareff, Vangel Konstantine, Professor of History. (1923, 1927)
A.B., Syracuse, 1917; A.M., Harvard, 1918.

Talley, Paul Judson, Assistant Professor of Biology. (1934, 1935)
A.B., Baylor, 1928; M.S., Iowa, 1930; Ph.D., Wisconsin, 1932.

Tanzer, Lyle K., Assistant Professor of Chemistry. (1936, 1938)
B.A., Iowa, 1932; M.S., 1934; Ph.D., 1936.

Temple, William Benson, Instructor in Mathematics. (1938)
A.B., Louisiana College, 1935; M.A., Louisiana State, 1937.

Terrell, Thomas Henry, Instructor in Engineering Drawing. (1937)
B.S., Agricultural and Mechanical College of Texas, 1934.

Thompson, J. George H., Instructor in Mechanical Engineering. (1938)
B.S., Pennsylvania State College, 1933; M.E., 1938.

Thompson, Louis Milton, Instructor in Agronomy. (1936)
B.S., Agricultural and Mechanical College of Texas, 1935.

Thompson, Lee Price, Instructor in Mechanical Engineering. (1938)
B.A., Indiana, 1936; M.S., Agricultural and Mechanical College of Texas, 1938.

Thorne, David Wynne, Associate Professor of Agronomy. (1937)
B.S., Utah State Agricultural College, 1933; M.S., Iowa State College, 1934; Ph.D., 1936.

Thurmond, Milam Frank, Associate Professor of Agricultural Engineering. (1927, 1930)
A.B., Baylor, 1919; B.S., Agricultural and Mechanical College of Texas, 1922; M.S., 1931.

Toulmin, Lyman Dorgan, Instructor in Geology. (1938)
A.B., Alabama, 1926; M.A., 1934.

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[8]On leave. Second Semester. 1938-1939.

Trail, James Arthur, Assistant Professor of Mechanical Engineering. (1929, 1935)
B.S., Agricultural and Mechanical College of Texas, 1929; M.S.E., Purdue, 1934.

Truettner, Willard Irving, Associate Professor of Mechanical Engineering. (1930, 1938)
B.S., Michigan, 1928; M.S.E., 1930.

Turner, Francis Earl, Associate Professor of Geology. (1934, 1937)
B.S., California Institute of Technology, 1927; M.S., 1928; Ph.D., California, 1934.

Vezey, Edward Earl, Professor of Physics. (1920, 1938)
B.S., Oklahoma Agricultural and Mechanical College, 1910; M.S., Agricultural and Mechanical College of Texas, 1927.

von Roeder, Rudolph Joachin, Jr., Instructor in Animal Husbandry. (1937)
B.S., Agricultural and Mechanical College of Texas, 1932.

Ward, Robert Page, Associate Professor of Electrical Engineering. (1925, 1934)
B.S., Agricultural and Mechanical College of Texas, 1924; M. S., 1934.

Weaver, Richard Malcolm, Assistant Professor of English. (1937)
A.B., Kentucky, 1932; M. A., Vanderbilt, 1934.

Weekes, Donald Fessenden, Instructor in Physics. (1937)
B.S., Middlebury College, 1924; M.A., Amherst College, 1926; Ph.D., Cornell, 1937.

Weinke, Oscar Arnold, Associate Professor of Accounting and Statistics. (1924, 1928)
B.A., Wisconsin, 1921; M.S., Agricultural and Mechanical College of Texas, 1928.

Welge, Henry John, Instructor in Chemistry. (1937)
B.S., Illinois, 1929; M.S., California Institute of Technology, 1932; Ph.D., 1936.

Wilcox, George Barton, Professor of Education. (1920, 1927)
B.S., Agricultural and Mechanical College of Texas, 1923; A. M., Columbia, 1926.

Wilkinson, Clyde Winfield, Instructor in English. (1935)
B.S., Texas, 1932; M.A., 1934.

Wilson, Francis H., Major, Infantry, Assistant Professor of Military Science and Tactics. (1936)
B.A., Johns Hopkins, 1917.

Wingren, Roy Matthew, Assistant Professor of Mechanical Engineering. (1928, 1935)
B.S., Agricultural and Mechanical College of Texas, 1927; M.S., 1934.

Woolket, Joseph John, Associate Professor of Modern Languages. (1925, 1929)
A.B., Oberlin College, 1924; M.A., 1925.

Wright, Samuel Robert, Assistant Professor of Civil Engineering. (1923, 1937)
B.S., Agricultural and Mechanical College of Texas, 1922; M.S., 1928.

Zisman, Samuel Bernhard, Assistant Professor of Architecture. (1935, 1937)
B.S., Massachusetts Institute of Technology, 1930.

Graduate Assistants, Fellows, and Tutors

[9]Allen, Leonard Quentin, Assistant in Office of Dean of the College.
B.S., East Texas State Teachers College, 1926.

Anderson, William Kermit, Assistant in Chemistry.
B.S., Agricultural and Mechanical College of Texas, 1938.

Andrews, Robert Vincent, Assistant in Chemistry.
B.S., Oregon State College, 1938.

[10]Berry, Abner Wilkes, Assistant in Accounting and Statistics.
B.S., Mississippi State College, 1939.

[9]Betts, Attie Lester, Assistant in Electrical Engineering.
B.S., Agricultural and Mechanical College of Texas, 1938.

Bishop, Dwight Reed, Assistant in Library.
B.S., Texas College of Arts and Industries, 1937.

[11]Blair, Philip Joseph, Assistant in Agricultural Economics.
B.S., Agricultural and Mechanical College of Texas, 1937.

Blodget, Morris Ralph, Assistant in Physics.
B.A., Ripon College, 1938.

[9]Appointed Oct. 1, 1938.
[10]Appointed Feb. 1, 1939.
[11]Resigned Jan. 31, 1939.

Brewer, Loy Elwood, Assistant in Biology.
B.S., Stephen F. Austin State Teachers College, 1938.
Brown, Ewing E., Assistant in Biology.
B.S., Agricultural and Mechanical College of Texas, 1937.
Carpenter, Henry Dunphe, Assistant in Veterinary Anatomy.
B.S., Massachusetts State College, 1931.
Carter, Claude Wesley, Assistant in Library.
B.S., Agricultural and Mechanical College of Texas, 1938.
Cazell, Gabriel Francois, Assistant in Economics.
B.A., Agricultural and Mechanical College of Texas, 1937.
Clark, David Gordon, Assistant in Physics.
B.A., Park College, 1938.
Clarkson, Miller Bryan, Assistant in Mathematics.
B.A., Baylor, 1938.
Counts, William Madison, Assistant in Accounting and Statistics.
B.S., Agricultural and Mechanical College of Texas, 1938.
[10]Curts, Kephart Maynard, Assistant in Biology.
Dana, Baron Richard, Assistant in Animal Husbandry.
B.S., Iowa State College, 1935; M.S., Agricultural and Mechanical College of Texas, 1937.
Dodson, Ralph Jordan, Assistant in Chemistry.
B.S., Agricultural and Mechanical College of Texas, 1935.
Durst, Nelson Daniel, Assistant in Accounting and Statistics.
B.A., Southwestern, 1936.
Edmondson, Thomas Leonard, Assistant in Agronomy.
B.S., Agricultural and Mechanical College of Texas, 1938.
Fix, Robert E., Assistant in Chemistry.
B.S., Agricultural and Mechanical College of Texas, 1938.
Fletcher, Lane, Assistant in Dairy Husbandry.
B.S., Southwestern Louisiana Institute, 1937.
Gaskell, Roy Lee, Jr., Assistant in Mechanical Engineering.
B.S., Agricultural and Mechanical College of Texas, 1938.
Gauntt, William Charles, Assistant in Municipal and Sanitary Engineering.
B.A., Hardin-Simmons, 1936.
[12]Glazener, William Caleb, Assistant in Biology.
B.S., South Texas State Teachers College, 1929.
[13]Graham, Hugh, Assistant in Entomology.
B.S., Agricultural and Mechanical College of Texas, 1938.
Graves, James Richard, Assistant in Civil Engineering.
B.S., The Citadel, 1934.
Gulmon, Gordon Wesley, Assistant in Geology.
B.A., North Dakota, 1937.
Haggar, Charles, Assistant in Veterinary Physiology and Pharmacology.
B.S., South Dakota State College, 1931.
Hebert, Martin, Jr., Assistant in Electrical Engineering.
B.E., Tulane, 1936.
Hinds, Raymond Sheldon, Assistant in Biology.
B.A., St. Olaf College, 1937.
Hirst, Phillip Alex, Assistant in Civil Engineering.
B.S., Wyoming, 1938.
[14]Hodgman, Robert Fletcher, Assistant in Geology.
E. of Mines, Minnesota, 1938.
[15]Howard, Joe Noel, Fellow in Registrar's Office.
B.A., Agricultural and Mechanical College of Texas, 1938.
Howe, Ralph Harrington, Assistant in Geology.
G.E., Cincinnati, 1938.
[16]Hoyer, Henry Everett, Assistant in Engineering Drawing.
B.S., South Dakota, 1927.
Hughes, Robert Holloway, Assistant in Genetics.
B.S., Agricultural and Mechanical College of Texas, 1937.
[17]Jackson, Joe Beck, Assistant in Agronomy.
B.S., Agricultural and Mechanical College of Texas, 1938.

[12]Appointed Feb. 13, 1939.
[13]Appointed Oct. 1, 1938.
[14]Resigned Jan. 31, 1939.
[15]Resigned Dec. 31, 1938.

[16]Jones, Paul Volk, Jr., Assistant in Biology.
B.A., Texas Technological College, 1937.
Keim, Samuel Thomas, Assistant in Economics.
B.A., Agricultural and Mechanical College of Texas, 1938.
[18]King, Jefferson Nicholas, Assistant in Mechanical Engineering.
B.S., Clemson College, 1938.
Knezevich, Milan, Assistant in Chemistry.
B.S., Oregon State College, 1938.
Laird, John Vester, Assistant in Agricultural Economics.
B.S., Agricultural and Mechanical College of Texas, 1938.
Langdale, Fred Darrow, Assistant in Civil Engineering.
B.S., Texas Technological College, 1938.
[16]Lapham, Loyle George, Fellow in Registrar's Office.
B.S., Agricultural and Mechanical College of Texas, 1929.
Leach, Norman Elmo, Assistant in Agricultural Engineering.
B.S., Mississippi State College, 1937.
Lee, D. Ralph, Assistant in Chemistry.
B.S., State Teachers College, Memphis, Tenn., 1937.
Logan, George Albert, Jr., Assistant in Agricultural Economics.
B.S., Agricultural and Mechanical College of Texas, 1935.
[16]McCrory, Dorsey Elwood, Tutor in Agricultural Economics.
Candidate for B.S., Agricultural and Mechanical College of Texas, 1939.
[16]McGowen, John Roland Cazell, Tutor in Agricultural Economics.
Candidate for B.S., Agricultural and Mechanical College of Texas, 1939.
[19]McIlroy, Horace S., Assistant in Agronomy.
B.S., Agricultural and Mechanical College of Texas, 1937.
McWhorter, John Clifton, Assistant in Agricultural Engineering.
B.S., Clemson College, 1937.
Malone, Milton Smith, Assistant in Entomology.
B.S., Agricultural and Mechanical College of Texas, 1937.
[20]Martin, Homer Clint, Assistant in Economics.
B.S., Agricultural and Mechanical College of Texas, 1938.
Monroe, William Ransom, Assistant in Physics.
B.A., Baylor, 1938.
Mueller, Lester Alvie, Assistant in Mechanical Engineering.
B.S., Texas Technological College, 1938.
Newman, Coleman Conway, Assistant in Biology.
B.S., Sul Ross State Teachers College, 1936.
[21]O'Brien, Francis R., Assistant in Mechanical Engineering.
B.S., Agricultural and Mechanical College of Texas, 1935.
Pendery, Roger Adrian, Assistant in Economics.
B.A., Agricultural and Mechanical College of Texas, 1938.
Petersen, Ray K., Assistant in Animal Husbandry.
B.S., Utah State Agricultural College, 1937.
Rackley, Ford Bell, Assistant in Modern Languages.
B.A., Sul Ross State Teachers College, 1938.
Rawls, Jesse Byron, Jr., Assistant in Mechanical Engineering.
B.S., Agricultural and Mechanical College of Texas, 1934.
[22]Roberts, Frank LaRue, Assistant in Accounting and Statistics.
B.S., B.A., Arkansas, 1938.
[23]Romine, William Albert, Assistant in Mechanical Engineering.
B.S., Oklahoma, 1938.
Rosenberg, Morton, Assistant in Poultry Husbandry.
B.S., Rutgers, 1938.
Rucker, Robert Henry, Fellow in Office of Dean of Agriculture.
B.S., Agricultural and Mechanical College of Texas, 1938.
[23]Sain, Carl, Assistant in Accounting and Statistics.
B.S., Texas Christian, 1933.
Schlossman, Melvin Bernard, Assistant in Industrial Education.
B.S., Carnegie Institute of Technology, 1936.

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[16]Appointed Feb. 1, 1939.
[17]Resigned Oct. 22, 1938.
[18]Resigned Dec. 31, 1938.
[19]Appointed Oct. 24, 1938.
[20]Appointed Feb. 20, 1939.
[21]Appointed Jan. 1, 1939.
[22]Appointed Feb. 1, 1939.
[23]Resigned Jan. 31, 1939.

Schoenfeld, Perry Cornelius, Assistant in Mathematics.
B.S., Agricultural and Mechanical College of Texas, 1938.
[24]Shannon, Roger Roy, Fellow in Office of Dean of the College.
B.A., Agricultural and Mechanical College of Texas, 1934.
Shone, Louis Albert, II, Assistant in Library.
B.S., Agricultural and Mechanical College of Texas, 1934.
Slaughter, Joseph Coman, Assistant in Biology.
B.S., Agricultural and Mechanical College of Texas, 1937.
[25]Sparks, Richard Ernest, Jr., Assistant in Agricultural Economics.
B.S., M.S., Texas Technological College, 1938.
[26]Sweeten, Donald W., Tutor in Engineering Drawing.
Candidate for B.S., Agricultural and Mechanical College of Texas, 1939.
Taber, F. Wallace, Assistant in Wild Game.
B.A., California, 1937.
Thiegs, Bernard J., Assistant in Chemistry.
B.S., North Dakota Agricultural College, 1935.
Thompson, G. Carl, Assistant in Accounting and Statistics.
B.A., Arizona State Teachers College, 1938.
[26]Thompson, Thomas Bunnell, Assistant in Architecture.
B.S., Agricultural and Mechanical College of Texas, 1930.
Tillman, Hjalmar A., Assistant in Dairy Husbandry.
B.S., Rhode Island State College, 1937.
[25]Tisdale, Ernest Edward, Assistant in Geology.
B.A., North Dakota, 1937.
Toombs, Alfred John Lawrence, Assistant in Chemistry.
B.S., Agricultural and Mechanical College of Texas, 1938.
Wiley, William Henry, Assistant in Poultry Husbandry.
B.S., Agricultural and Mechanical College of Texas, 1936; M.S., 1937.
Wilke, Milton Edward, Assistant in Physics.
B.A., Ripon College, 1938.
Williams, John Howard, Assistant in Civil Engineering.
B.S., Purdue, 1938.
[27]Williamson, Marion N., Jr., Assistant in Accounting and Statistics.
B.S., Agricultural and Mechanical College of Texas, 1937.
Winegar, Arnold Henry, Assistant in Animal Husbandry.
B.S., Iowa State College, 1935.
Woolard, Simon Brown, Assistant in Electrical Engineering.
B.S., North Carolina State College, 1938.
Wright, Harold Edward, Assistant in Horticulture.
B.S., Agricultural and Mechanical College of Texas, 1934.

[24]Resigned Oct. 1, 1938.
[25]Appointed Dec. 1, 1938.
[26]Appointed Feb. 1, 1939.
[27]Resigned Jan. 31, 1939.

SUMMARY OF THE TEACHING STAFF AS OF APRIL 1, 1939

Heads of Departments and Other Members of the General Faculty	56
Other Full Professors	55
Associate Professors	39
Assistant Professors	52
Instructors	106
Teaching Assistants and Fellows	60
[28]TOTAL	368

[28]Including 5 on leave, Session 1938-39.

THE AGRICULTURAL EXPERIMENT STATION

Main Station Staff (As of January 1, 1939)

Administration:

A. B. Conner, M.S., Director.
R. E. Karper, M.S., Vice-Director.
P. C. Mangelsdorf, Sc.D., Assistant Director.
Clarice M. Turner, 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. Franklin Fudge, Ph.D., Chemist.
A. R. Kemmerer, Ph.D., Chemist.
E. C. Carlyle, M.S., Associate Chemist.
T. L. Ogier, B.S., Associate State Chemist.
Athan J. Sterges, M.S., Assistant Chemist.
Waldo H. Walker, Analyst.
Velma Graham, Analyst.
[29]Ray Treichler, M.S., Assistant Chemist.
F. C. Pack, B.S., Assistant Chemist.
P. F. Macy, Ph.D., Associate Chemist.
....., Associate Chemist.
M. W. Meinke, B.S., Assistant Chemist.
G. L. Smith, B.S., Assistant Chemist.
S. M. Greenburg, B.S., Assistant Chemist.

Horticulture:

S. H. Yarnell, Sc.D., Chief.
W. S. Flory, Jr., 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.
R. O. Berry, Ph.D., Associate Geneticist.

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.
Henry Menusan, Ph.D., Entomologist.
J. C. Gaines, Jr., M.S., Entomologist.
S. E. Jones, M.S., Entomologist.
[30]R. W. Moreland, B.S., Assistant Entomologist.
M. J. Janes, Ph.D., Entomologist.
Cecil E. Heard, B.S., Chief Foulbrood Inspector.
C. J. Burgin, B.S., Foulbrood Inspector.

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[29]On leave, 1938-39.

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

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.
[31]T. R. Richmond, M.S., Assistant Agronomist.
[31]E. S. McFadden, B.S., Associate Agronomist.
D. A. Reid, M.S., Agronomist.

Publications:

A. D. Jackson, Chief.

Veterinary Science:

H. Schmidt, D.V.M., Chief.
[31]F. P. Matthews, D.V.M., Ph.D., Veterinarian.
....., Veterinarian.
R. D. Turk, D.V.M., Veterinarian.
P. L. Piercy, D.V.M., Veterinarian.

Plant Pathology and Physiology:

A. A. Dunlap, Ph.D., Chief.
W. N. Ezekiel, Ph.D., Plant Pathologist.
C. H. Rogers, Ph.D., Plant Pathologist.
[33]G. M. Watkins, Ph.D., Plant Pathologist.
[32]G. A. Greathouse, Ph.D., Associate Plant Physiologist.
[32]L. M. Blank, Ph.D., Associate Plant Pathologist.
G. E. Altstatt, M.S., Plant Pathologist.
A. L. Harrison, Ph.D., Plant Pathologist.
N. E. Rigler, Ph.D., Plant Physiologist.

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.
H. C. Bradshaw, M.A., Economist, Farm Taxation.
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:

[32]W. T. Carter, B.S., Chief.
[32]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.

[31]In co-operation with U. S. Department of Agriculture.
[32]In co-operation with U. S. Department of Agriculture.
[33]On leave, 1938-39.

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.

[34]Wild Life Research:
[34]W. P. Taylor, Ph.D., Chief.
[34]Valgene Lehmann, B.S., Field Biologist.
[34]Daniel W. Lay, B.S., Field Biologist.
[34]H. R. Siegler, M.S., Field Biologist.

Main Station Farm:
J. E. Roberts, B.S., 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.
R. A. Turck, 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., Professor of Horticulture.
J. S. Mogford, M.S., Professor of Agronomy.
C. N. Shepardson, M.S., Professor of Dairy Husbandry.

[34]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.

THE ENGINEERING EXPERIMENT STATION

Gibb Gilchrist, C.E., 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.

ADVISORY COUNCIL

J. B. Bagley, B.A., Professor of Textile Engineering.
C. L. Baker, M.A., Professor of Geology.
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.
Ernest Langford, M.S., Professor of Architecture.
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.
H. Vance, B.S., Professor of Petroleum Engineering.

THE EXTENSION SERVICE

STAFF (As of January 1, 1939)

Administration:
H. H. Williamson, Director.
Jack Shelton, Vice-Director and State Agent.
George E. Adams, Assistant State Agent.
Hildred 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, Cooperative Marketing Specialist.
R. E. Callender, Game Management Specialist.
K. J. Edwards, District Agent.
E. R. Eudaly, Dairy Husbandman.
G. G. Gibson, Assistant Dairyman.
W. I. Glass, District Agent.
Paul G. Haines, Economist in Organization Work.
Parker D. Hanna, District Agent.
C. Hohn, Secretary State Conservation Board and Specialist in Soil and Water Conservation.
E. N. Holmgreen, Cooperative with A.A.A.
George W. Johnson, District Agent.
L. L. Johnson, State Boys' Club Agent.
R. R. Lancaster, Pasture Specialist.
F.E. Lichte, Cotton Gin Specialist.
Geo. P. McCarthy, Poultry Husbandman.
W. V. Maddox, Dairy Manufacturing Specialist.

E. C. Martin, District Agent.
E. A. Miller, Agronomist.
R. S. Miller, District Agent.
W. E. Morgan, Economist in Agricultural Planning.
W. R. Nisbet, Animal Husbandman.
G. W. Orms, District Agent.
M. T. Payne, District Agent.
J. W. Potts, Assistant State Boy's Club Agent.
J. D. Prewit, District Agent.
C. B. Ray, Assistant in Program Planning.
E. M. Regenbrecht, Swine Husbandman.
R. R. Reppert, Entomologist.
J. F. Rosborough, Horticulturist.
J. A. Scofield, District Agent.
Cameron Siddall, Assistant Entomologist.
Charles W. Simmons, Farm Forester.
A. L. Smith, Animal Husbandman and Cooperative with A.A.A.
Roy W. Snyder, Supervisor-Specialist's Work.
M. K. Thornton, Jr., Agricultural Chemist.
T. R. Timm, Economist in Farm Management.
O. G. Tumlinson, District Agent.
B. F. Vance, Cooperative with A.A.A.
J. R. Wenmohs, Assistant in Program Planning.
T. B. Wood, District Agent.

Home Demonstration Work:

Mrs. Dora R. Barnes, Specialist in Clothing.
Mrs. Maggie W. Barry, Adviser in Rural Organization Work.
Beulah Blackwell, District Agent.
Louise Bryant, Specialist in Home Management.
Jennie Camp, Specialist in Home Production Planning.
Bennie Campbell, District Agent.
Mrs. Isla Mae Chapman, Specialist in Home Industries.
Mrs. Bernice Claytor, Specialist in Home Improvement.
Lida Cooper, District Agent.
Nora Ellen Elliott, Specialist in Food Preparation.
Minnie May 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 Girls' Club Agent.
Zetha McInnis, District Agent.
Ruby Mashburn, District Agent.
Vida Moore, District Agent.
Myrtle Murray, District Agent.
Grace I. Neely, Specialist in Food Preservation.
Mae Belle Smith, District Agent.
Helen H. Swift, Sociologist—Rural Women's Organizations .
Ruth Thompson, District Agent.

Negro Extension Work:

C. H. Waller, State Leader, Prairie View.
H. S. Estelle, District Agent, Prairie View.
J. H. Williams, District Agent, Prairie View.
Mrs. Iola W. Rowan, District Agent, Prairie View.
Mrs. Jeffie Allen Conner, 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.
Chris Nelson, Jr., B.S.F., Assistant Forester.
Paul W. Schoen, B.S.F., Assistant Forester.
Wm. A. Norman, Chief Clerk.

Forest Protection:

W. E. White, B.S., Lufkin, Chief.
David A. Anderson, B.S., Lufkin, Assistant Forester.
J. O. Burnside, B.S.F., Lufkin, Assistant Forester.
Don Young, M.F., Lufkin, Assistant Forester.
M. E. Brashears, B.S.F., Rusk, District Forester.
C. H. Hebert, B.S.F., Linden, District Forester.
B. D. Hawkins, Woodville, Inspector.
W. O. Durham, Lufkin, Inspector.
J. M. Turner, Kirbyville, Inspector.
E. B. Long, Marshall, Educational Assistant.
J. R. Thigpen, Huntsville, Educational Assistant.
M. S. Lawrence, Camden, Maintenance Engineer.
Haywood Metts, Pollok, Assistant Maintenance Engineer.
T. J. O'Quinn, Pollok, Law Enforcement Agent.

Forest Management:

I. H. Jones, B.S.F., 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.

ADMINISTRATION OF STATE LAWS

Fertilizer Law:

G. S. Fraps, Ph.D., State Chemist.
S. E. Asbury, M.S., Assistant State Chemist.
W. H. Walker, Analyst.
T. L. Ogier, B.S., Associate State Chemist.

Foulbrood Law:

F. L. Thomas, Ph.D., State Entomologist.
C. E. Heard, B.S., Chief Foulbrood Inspector.
C. J. Burgin, B.S., 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 170 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 acepted 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.

Twelve new dormitories containing approximately 1300 rooms with a total estimated cost of two million dollars are under construction and will be completed by September 1939.

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

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

School of Agriculture.—Accounting and Statistics, Agricultural Economics, Agricultural Education, Agricultural Engineering, Agronomy, Animal Husbandry, Dairy Husbandry, Entomology, Fish and Game Conservation, 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 Engineering, Petroleum Engineering, Textile Engineering.

School of Veterinary Medicine.—Veterinary Anatomy, Veterinary Hygiene, Veterinary Medicine and Surgery, Veterinary Parasitology, 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.)
Petroleum Engineer (P.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 earn as many grade points as there are credit hours in the subjects of his major study.

(c) He must have settled all financial obligations to the College.

(d) 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 recitation, 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.

The temporary grade X indicates that the student has completed the subject except for the final examination. The grade is given only when the work already completed has been of a quality acceptable for credit in the subject. The grade X maye be removed by authorized postponed final examinations within the succeeding semester; if not so removed it automatically becomes an F.

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 and April 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 the school.

THE CUSHING MEMORIAL LIBRARY

The Library, erected in 1930 at a cost of $250,000, contains approximately 70,000 volumes, including files of Federal and State documents, of which it is a designated depository. While the Library has been developed chiefly along reference and technical lines, a very good general 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 reference, periodicals, government documents over ten years old, 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, unless the book is requested meanwhile.

Over six 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 majority of these periodicals.

The College Library is also the research library of the Texas Agricultural Experiment Station, which contributes largely to the formation of the agricultural collection.

During regular session the Library is open for the following hours:

Week days—8 A. M. to 10 P. M.
Saturdays—8 A. M. to 12 Noon and 1 to 5 P. M.
Sundays—1 to 5 and 7 to 10 P. M.

During summer school:

Week days—8 A. M. to 10 P. M.
Saturdays—8 A. M. to 12 Noon.
Sundays—7 to 10 P. M.

Between terms and holidays:

Week days—8 A. M. to 5 P. M.
Saturdays—8 A. M. to 12 Noon.

PUBLICATIONS

The following publications are issued by the College:

The Bulletin of the Agricultural and Mechanical College of Texas—Issued monthly; includes the bulletins of the Texas Engineering Eperiment 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 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 semi-weekly devoted to student activities and interest; carries official notices and other announcements.

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 to 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 spirit 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 Earthly 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 Officer's 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 seniors 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 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 who qualify for the R. O. T. C. 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 rooms, X-ray and laboratory facilities. There is a staff of one full time physician, a technician and ten 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 examinations of both milk and water are made at frequent intervals 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 exercises 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 Swim-

ming 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 200 pieces is the official band of the A. & M. College of Texas. It is organized into two bands, an Artillery Band and an Infantry Band of one hundred pieces in each and the concert band of about eighty pieces is selected from both. The bands have their own officers and all members live in one dormitory. They furnish the music for military reviews, parades, open air concerts, yell practice and retreat formations. The bands also lead the cadets in marching to the mess hall. They play at all intercollegiate athletic contests held at the college and accompany the football team on trips to other schools. In the spring, concert trips 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 Officers 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, Lieut. Col., GSST. It is advised that those owning 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 for music. Applications for student labor should be made to the 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 secural 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 Theater Club provides opportunity for practical training in dramatics. The Department of English sponsors a debating club, under the leadership of the Professor of Public Speaking, which meets teams from other

colleges and universities in Texas and surrounding states for discussion of questions of public interest. The Natural History Society brings to the campus specialists and leaders in the field of conservation and natural resources.

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 1880, 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 room, and laboratories for the departments of Animal Husbandry, Genetics, Poultry Husbandry, and Wild Game.

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 contains lockers, shower baths, and other facilities for all field sports, lecture rooms, retiring rooms, examination rooms and heating plant. The basketball section has a seating capacity of about 3,500.

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.

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.

Twelve new dormitories containing approximately 1300 rooms are under construction and should be completed in September.

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 the 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 classrooms and laboratories located in the Agricultural Building, the Animal Husbandry Pavilion, and Francis Hall. Two laboratories for soils instruction and three laboratories for instruction in crops are located in the Agricultural Building. In the Animal Husbandry Pavilion there are three laboratories, one for cotton instruction, one for soil conservation, and a third for instruction in Agrostology and Soil Surveying. A large laboratory for general soils instruction is located in Francis Hall.

The general soils laboratory, the soil fertility laboratory, and the advanced soils laboratory are equipped with two centrifuges, a shaking machine, a Briggs Filter, electrical air pumps, torsion balances, chemical balances, drying ovens, autoclave, hot-air sterilizer, hot plates, compound microscopes, two colorimeters, evaporaters, soil capillary tubes, soil samplers, two water stills, wheatstone bridge, Quin-hydrone electrode, soil disbursing apparatus, mechanical analysis equipment, muffle furnace, and complete Kjeldahl digestion and distilling equipment. For soil conservation and soil survey instruction, the department has the necessary equipment.

The main farm crops laboratory is equipped for general laboratory instruction in the basic field crops. Another laboratory is equipped with standard weight per bushel measures, torsion balances, dockage sieves, a dockage tester, and other equipment used in a specialized course in the commercial grading and judging of grain. This laboratory is also equipped with specie and variety specimens of all the major cereal crops. Seed scarifiers, germination equipment, along with type samples of the major

hays, forage crops, and weeds are kept in stock for use in a forage crop production course.

The cotton laboratory of the department is equipped with saw and roller gins, torsion balances, Roller-Smith milligram balances, Webb-suter lint cotton sorter, McNamara seed cotton fiber sorters, velvet boards, combs, bundle wrapping machine, fiber strength testing equipment, a collection of plants of the economic species of cotton, and a large stock of seed cotton and open cotton bolls of many species and varieties.

In additin to the above, the department of agronomy can arrange for classes to visit the laboratories of the U. S. Department of Agriculture located on the campus, equipped for all types of cotton spinning and cotton fiber testing, as well as the laboratories of the Agricultural Experiment Station.

For work in Agrostology, the department has a collection of mounted specimens of all the economic and important grasses of the Southwest and particularly those of Texas, together with the necessary equipment for collecting and preserving, mounting, and studying grass specimens. The department is also supplied with all necessary keys and publications for identifying and determining the geographical distribution, ecological, and economic relationships of the major grasses.

The department has a greenhouse 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.

The department maintains a technical library, in which will be found many of the standard works and journals pertaining to agronomy as well as many Experiment Station Bulletins and reports on agronomic work.

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 value 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 of architecture occupies the fourth floor of the Academic Building. Its work largely revolves around an appropriately equipped library of some 2000 or more volumes. There are individual drafting rooms for all classes in design and construction, all rooms being furnished with drawing boards, lockers, display areas, etc. All rooms are adequately lighted, both with artificial and natural illumination. The department is also furnished with projection lanterns and several thousand slides, as well as with casts for the work in freehand drawing and history. The department also subscribes to standard architectural magazines, both of American and foreign publication. Students of the department have access to all of this equipment as well as that of other departments whose work is closely associated with that of architecture.

BIOLOGY

The department occupies one large lecture room and eleven laboratories—three zoological, four botanical, one bacteriological, and one for general biology. These are equipped with standard student microscopes and dissecting and research instruments. Instruments of precision, imbedding ovens, incubators, autoclaves, stills, refrigerators, and other equipment necessary for carrying on instruction and research in most biological fields are provided. Teaching aids such as charts, models, mounted materials, preserved specimens, and prepared slides are available.

For advanced and experimental work the department maintains a departmental library and herbarium.

CHEMISTRY AND CHEMICAL ENGINEERING

The department has the usual laboratory service lines such as natural gas, compressed air, hydrant and distilled water, steam, A.C. and D.C. current and exhausting and ventilating systems. Each floor is supplied with equipment from a central storeroom on that floor, and from smaller, auxilliary storerooms where needed. Balance rooms are conveniently located near the larger laboratories.

Each student is assigned a locked desk in each laboratory; these desks contain the necessary equipment for the particular course. Only a

small library is maintained in the building, since the main library carries the responsibility for this service.

The industrial chemistry laboratories, in addition to using the facilities of the other chemistry and chemical engineering divisions, include a complete cottonseed oil mill maintained under the auspices of the Texas Cottonseed Crushers' Association. Special distillation and refining equipment and standard ASTM testing apparatus are available for work on petroleum and its products.

The chemical engineering division is able to show the importance of the unit operations that are essential to all chemical processing, through the use of horizontal tube and vertical forced-circulation types of evaporators, a twenty-plate fractionating tower equipped also for vacuum or pressure distillations, several types of crushers and grinders, vacuum and air dryers, filter press, supercentrifuge, basket centrifuge, fluid flow and heat transfer equipment, size separation, absorption, etc.

A workshop is maintained for the repair of or additions to the industrial chemistry and chemical engineering divisions and there are several storerooms for the special instruments, gauges, parts and tools that are needed here.

There are adequate graduate laboratory facilities for work in agricultural, analytical, inorganic, organic, physical, biological, and industrial chemistry and the various phases of chemical engineering.

CIVIL ENGINEERING

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

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

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

The laboratory for testing engineering material, such as steel, wood and cement, contains four universal testing machines of 50,000 to 100,000 pounds capacity. 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 fell 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 of approximately 550 acres which is used for the production of pasture and feed crops. All operations are carried on with modern farm machinery.

The dairy herd consists of approximately 250 registered animals of the Jersey and Holstein-Friesian breeds. The herd is housed in modern barns, and 125 producing cows furnish a large part of the milk for the college dining hall.

The creamery is housed in a tile stucco building and is fully equipped with all machinery necessary for the processing or manufacture of fluid milk, butter, cheese, ice cream and condensed milk. A large part of the dairy products used at the college dining hall are processed at the creamery.

The dairy laboratories are located in the creamery building and are equipped to carry on laboratory work in all phases of dairying, including dairy chemistry and dairy bacteriology. The dairy products research laboratory of the Agricultural Experiment Station is also located in this building and affords additional opportunity for graduate research.

ELECTRICAL ENGINEERING

The electrical engineering laboratories comprise three electrical machinery laboratories, a measurements laboratory, a standardizing laboratory, a photometric laboratory, a storage battery room, a communication laboratory for the telephone, telegraph and radio work, a work shop, 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. 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 machinery laboratories are completely equipped with typical examples of all modern AC and DC machinery in sizes ranging from one to 30 KW together with the appropriate control equipment.

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 standardizing laboratory is equipped with primary and secondary standards necessary for standardization of the instruments used in all the College laboratories and an oscillograph suitable for the study of circuits and transient phenomena.

The photometric laboratory has 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 Albrecht 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 gift 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.

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.

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 teachers and 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, and 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 kinds 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.

FISH AND GAME CONSERVATION

This department is located in the Animal Industries Building with departmental offices on the third floor. Laboratories and lecture room are in this building, also.

Class-room work is supplemented by practical exercises in the field. The department, in conjunction with the Texas Cooperative Wildlife

Service and the Division of Wildlife Research of the Agricultural Experiment Station, has established a number of experimental plots on or near the college campus to demonstrate methods and means of preserving and increasing game species. Through the courtesy of the Poultry Husbandry Department a four-acre plot has been set aside at the Poultry Farm for wildlife experimental work.

A reference library, consisting of several thousand separates, a number of leading journals, and standard works on ornithology, mammalogy, ecology, and game management, is maintained by the department for the convenience of students.

A museum containing several hundred prepared study skins, skulls, and skeletons of birds and mammals is located on the fourth floor. This museum is primarily for research and class demonstration use. Here the student has opportunity to do serious work on certain problems concerning Texas wildlife.

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.

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.

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 of rock, mineral, and fossil specimens donated by Mr. F. Steber of Dallas forms the nucleus of departmental collections. These include 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

Offices, 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, welding, 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.

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 ad-

dition 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 even, 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 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.

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, 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, 8 caissons, 8 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 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; and anti-aircraft gun on mobile mount with the fire constrol 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 pieces and models of the equipment which they manufacture. Donations include a 122-foot steel rotary drilling derrick, pumping units, rotary drilling tools, casing appliances, 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 emulsion, 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 meter, Stormer viscosimeter, wall building tester, 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. S. Bureau of Standards, the American Petroleum Institute, and the American Society for Testing Materials.

The gas measurement and testing 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.

An oil field equipment laboratory is now being assembled near the Petroleum Building. Full-size oil field equipment is being used in an attempt to simulate conditions on an actual oil lease, and wells are being drilled on this property which will produce water in the same manner that oil is produced in actual oil fields. Students are receiving practical instruction in the development of this laboratory in that they are helping to drill the wells and set the pumps and other equipment, and will finally test the equipment after it is assembled.

This laboratory now consists of semi-portable cable tool drilling equipment powered by internal combustion engine, and all the necessary tools; a portable rotary drilling rig capable of drilling to 1000 feet, with which practical instruction on rotary drilling and control of drilling muds is given. There is also a complete tank battery, oil and gas separator, and one air lift well. Work is being carried on in completing additional wells which will be equipped with central powers and typical individual pumping units.

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 room.

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 large 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 HYGIENE

The department of veterinary hygiene has a laboratory for the bacteriological, chemical and physical examination of milk, meat and foods. Ample facilities for the ante-mortem and post-mortem inspection of food animals are available.

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 transmissable 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 necessary 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 PARASITOLOGY

A well-equipped laboratory and other facilities are available for instruction and research in the field of parasitology. The department maintains a collection of helminth, arthropod and protozoan parasites of domestic and wild animals which has been accumulated over a period of a number of years. The specimens in this collection and prepared slides of these and other parasites are used primarily for study and class demonstration.

VETERINARY PATHOLOGY

The department is located on the second floor of the Veterinary Hospital 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 equipped with apparatus, reagents and chemicals for instruction in experimental and chemical physiology.

The pharmacy and experimental pharmacology laboratory has the equipment essential for training in preparing official and more common

nonofficial medicinal compounds, and for experimental work in determining the actions of drugs on the living body.

The toxicology department has a collection of poisonous plants and the apparatus, drugs, and chemicals essential to the study on the living animal of the action of inorganic and organic poisons, and poisonous plants, their detection and remedial treatment.

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 of 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
- Bookkeeping .....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.

Fall entrance examinations will be held at the College September 18, 1939 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 1.

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 examination 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 Dean concerned.

ADMISSION AT THE BEGINNING OF THE SECOND SEMESTER

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

REGISTRATION

Upon arrival at the College students will report at once to the 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.

Wednesday, September 20, 1939, will be devoted to the registration of new students; old students will register on Thursday, September 21. Formal classwork begins Friday, September 22.

EXPENSES

The necessary expenditures for the regular session of nine months range from $350 to $365 for new students and from $325 to $340 for old students distributed as follows:

First Semester:

Fees payable to the Fiscal Department:

Matriculation Fee (See note 1) .....(required)	$ 25.00
Medical Service Fee .....(required)	5.00
[1]Room Rent (See note 2)	25.00
[1]Board	89.25
Laundry	9.25
Room Key Deposit, returnable	1.00
Student Activities Fee .....(voluntary)	11.00
Y. M. C. A. Privilege Card .....(voluntary)	2.50
Total payable to Fiscal Department, first semester	$168.00
Other Expenses (for items that may be purchased from the College Exchange Store):	
Text Books and Supplies, about	20.00
Total First semester for old students, about	$188.00
Extra Expenses for new students:	
Uniform (See note 3), about	22.75
Freshman Physical Education Uniform (See note 6), about	1.50
Total first semester for new students, about	$212.25

(Add Drawing Instruments and Slide Rule for Freshmen in Engineering about $20.00) (See note 7)

Second Semester:

Fees payable to the Fiscal Department:

Matriculation Fee (See note 1) .....(required)	$ 25.00
Medical Service Fee .....(required)	5.00
[1]Room Rent (See note 2)	20.00
[1]Board	81.75
Laundry	8.25
Y. M. C. A. Privilege Card .....(voluntary)	2.50
Total payable to Fiscal Department, second semester	$142.50
Other Expenses (for items that may be purchased from the College Exchange Store):	
Text Books and Supplies, about	10.00
Total second semester for old students and for new students who were enrolled for the first semester	$152.50

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

Total Expenses for entire long session:

For new students, about	$364.75
For old students, about	$340.50

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)	22.75
Freshman Physical Education Uniform (See note 6, page 65) about	1.50
Extra for books, about	10.00
Subtotal	$42.75
Drawing Instruments for Freshmen in Engineering, about	20.00
Total	$62.75

The expenses as listed on the foregoing pages may be paid in installments as shown below:

First Semester:

Payable on entrance, September 20-21:	
Fees payable to the Fiscal Department:	
Matriculation fee (See note 1) (required)	$ 25.00
Medical Service Fee (required)	5.00
[1]Room Rent to November 8 (See note 2)	10.00
[1]Board to November 8	34.50
Laundry to November 8	3.50
Room Key Deposit, returnable	1.00
Student Activities Fee (voluntary)	11.00
Y. M. C. A. Privilege Card (voluntary)	2.50
Total payable to Fiscal Department on entrance	$ 92.50
Other Expenses (for items that may be purchased from the College Exchange Store):	
Text Books and Supplies, about	20.00
Total Payable on entrance for old students, about	$112.50
Extra Expenses for new students:	
Uniform (See note 3) about	22.75
Freshman Physical Education Uniform (See note 6) about	1.50
Total payable on entrance for new students, about	$136.75

(Add Drawing Instruments and Slide Rule for Freshmen in Engineering, about $20.00) (See note 7)

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

Payable after entrance:			
November 4-8,	[1]Room Rent to December 8....	$ 5.00	
	[1]Board to December 8.....	20.50	
	Laundry to December 8.....	2.00	
	Total payable November 4-8....		$ 27.50
December 4-8,	[1]Room Rent to January 8.....	5.00	
	[1]Board to January 8.....	11.75	
	Laundry to January 8.....	1.25	
	Total payable December 4-8 (Christmas Holidays not included)		$ 18.00
January 4-8,	[1]Room Rent to February 10....	5.00	
	[1]Board to February 10.....	22.50	
	Laundry to February 10.....	2.50	
	Total payable January 4-8.....		$ 30.00
Total Expenses for First Semester:			
For new students, about			$212.25
For old students, about			$188.00

Second Semester:

Payable on entrance, February 9-12:		
Fees payable to the Fiscal Department:		
Matriculation Fee (See note 1) .....(required)		$ 25.00
Medical Service Fee .....(required)		5.00
[2]Room Rent to March 8 (See note 2)		5.00
[2]Board to March 8		18.50
Laundry to March 8		2.00
Y. M. C. A. Privilege Card .....(voluntary)		2.50
Total Payable to the Fiscal Department on entrance		$ 58.00
Other Expenses (for items that may be purchased from the College Exchange Store):		
Text Books and Supplies, about		$ 10.00
Total payable on entrance for old students and for new students who were enrolled for the first semester		$ 68.00

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).....	22.75
Freshman Physical Education Uniform (See note 6, page ?), about.....	1.50
Extra for books, about.....	10.00
Subtotal	$42.75
Drawing Instruments for Freshmen in Engineering, about.....	20.00
Total	$62.75

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

Payable after entrance:

March 4-8,	[2]Room Rent to April 8	$ 5.00	
	[2]Board to April 8	21.25	
	Laundry to April 8	2.25	
	Total Payable March 4-8		$ 28.50
April 4-8,	[2]Room Rent to May 8	5.00	
	[2]Board to May 8	20.75	
	Laundry to May 8	2.00	
	Total payable April 4-8		$ 27.75
May 4-8,	[2]Room Rent to June 8	5.00	
	[2]Board to June 8	21.25	
	Laundry to June 8	2.00	
	Total Payable May 4-8		$ 28.25
	Total Expenses for Second Semester for all students who were enrolled for the First Semester, about ..		$152.50

Total Expenses for the entire long session:

For new students, about	$364.75
For old students, about	$340.50

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 $400 to $415 for new students and $380 to $395 for old students. In many cases these amounts can be materially reduced by careful economy.

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 by the last date shown, the student will be required to vacate his room. 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 dormitory students to day students will be made only on the last day of installment payments for rooms, board and laundry.

NOTES.—1. For matriculation fee of non-resident students see page 65. 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 to apply on the room rent payable on entrance, and for the key deposit. 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 10.

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

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

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.

7. The slide rule is one of the most important time-saving instruments of engineers. For use throughout the college course the LL Decitrig Duplex is suggested. Such a rule costs about $11.75. For those students who cannot at first purchase this rule, the Mannheim, selling for about $5.50 is acceptable. This is a good rule and is generally satisfactory for use during the freshman and sophomore years.

Expenses of Day Students.—Day students pay all specified fees and charges except board, laundry, room rent and room key deposit. The Medical Fee for day students is $5.50 each semester.

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 period of time 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. The scholarship is not valid for the second semester unless the student has passed at least ten semester hours for the first semester with an average grade of "C" or better.

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 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 10 days after the opening of a semester, nor will a refund be made in the case of withdrawal during the last 10 days of a semester or the last 10 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 10 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 cleaning the corridors but not the rooms.

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 Christmas holidays will pay only $7.50. On payment of this fee a student is entitled to admission to all intercollegiate and interscholastic 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 students' 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.

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 for $6.00 for room reservation fee and key deposit. 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 part of his first stallment 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 fees returned. Cancellations made after this date will result in a forfeit of the reservation fees. 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 and key deposit which will be credited to the students as part of 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 August 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 and key deposit 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 fees.

STUDENT EMPLOYMENT

A limited 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. Students holding jobs may earn about one-fourth to one-half of their expenses. No student should expect to earn all of his expenses while in college.

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

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

Part IV

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 five-year curriculum in Mechanical and Petroleum Engineering leads to the degrees of Bachelor of Science in Mechanical Engineering and Petroleum Engineering. The curriculum in Veterinary Medicine, including the pre-veterinary 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
Mechanical and Petroleum Engineering
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 School 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 objective the preparation of young men for the business of farming, for the pursuit of scientific investigation in the field of agriculture, for county demonstration agents, or extension workers, soil conservation work, farm managers, 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, horticulture, poultry husbandry, rural sociology and wild game. 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, fish and game conservation, horticulture, poultry husbandry, 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 like Texas—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 the Bureau of Agricultural Economics, in the Farm Credit Administration and 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, or (2) marketing and finance (including agricultural economics and farm management). The required

courses in these groups will be found under curricula. 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 having satisfactory training in the sciences underlying the study of agriculture will be awarded the degree of Bachelor of Science in Agricultural Education upon satisfying the following requirements: (1) 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 viewpoint. A thorough grounding in fundamental engineering principles is given, as much time is devoted to purely agricultural subjects as is possible, and the application 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 buildings; in advertisting, 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.

Graduates are engaged in private practice; as landscape designers with many of the larger nurseries; as foremen, landscape architects or superintendent in the National Park Service, as landscape employees in the State Highway Department, as landscape instructors in city schools, and in various phases of the Experiment Station and Extension Service program.

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)

[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.

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 funadmental 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; 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.

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 313 or 314.
2. Students who major in Economics, 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

[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.

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

FIVE-YEAR CURRICULA

Architecture
Petroleum Engineering
Mechanical and Petroleum Engineering

TWO-YEAR CURRICULUM

Cotton Marketing and Classing

ARCHITECTURE AND ARCHITECTURAL ENGINEERING

The department of architecture offers two courses for students who desire to enter the professions: Architectural Design, a five-year course leading to the degree of Bachelor of Architecture, and Architectural Engineering, a four-year course leading to the degree of Bachelor of Science in Architectural Engineering. The work in both courses is essentially the same in the lower years, but gradual emphasis on special aspects of each is increased until in the later years they become practically distinct. Both courses give sufficiently broad training to make the student effective in general practice after graduation.

The student should be guided by his natural inclination in selecting either of these options. In general, students with natural or developed ability in design are advised to select the design option, while students who have an analytical turn of mind are directed into the structural option. The actual selection of either option may be deferred until the second year, however, as the work of the first year is common to both groups.

Graduates of the department find their way into the profession as draftsmen, designers, and general assistants in architectural offices, and into the engineering departments of business and railway corporations, construction companies, municipalities, and the Civil Service.

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 increasing amount through the junior and senior years. Much emphasis is put on the fundamental principles of electrical engineering, but the fundamentals are vitalized with 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; electrical generating stations and systems; manufacturing of electrical equipment; industrial organization; manufacturing and design of transportation equipment; telephone and telegraph; radio engineering; and illuminating engineering.

An increasing number of electrical engineering graduates are finding employment in the petroleum industry. Many of these men are employed in geophysical departments of the major oil companies in the design, construction, and operation of field radio sets and electrically operated 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 officers 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.

The amateur radio club established at the College maintains a ham station, operating on 40 meters and 10 meters, for students interested in short-wave radio communication.

A branch of the American Institute of Electrical Engineers has been organized among the students of the College and affords the means of keeping the 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 in 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.

INDUSTRIAL EDUCATION

(Group 1)

The industrial education curriculum (under Group 1) in general aims to prepare young men for the following types of occupations:

1. Draftsmen, cabinet makers, general mechanics and 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.
2. Teachers of industrial arts subjects in junior, senior or technical schools. Industrial arts in these schools include such subjects as laboratory of industry, electrical work, metal work, woodwork and technical drawing.
3. Teachers of occupational courses and sponsors of guidance, safety and personnel programs in public schools.

(Group 2)

This curriculum is intended for 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 the State Plan.

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 railway accessories, iron and steel production, and fabricating machines, machine tools, woodworking tools, and many other machines of more special and limited character.

Outside of the field of purely engineering work, there is an increasing demand for engineers for the sale of technical equipment where an engineering knowledge is essential, and for executive and management work. Many industries are finding it profitable to utilize the technical knowledge of the engineer in positions of responsible executive work.

Therefore, this course instructs the 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.

Three courses in Petroleum Engineering are available to the students in this department: (1) A regular four-year curriculum in Petroleum Engineering which leads to a degree of Bachelor of Science; (2) A five-year curriculum in Petroleum Engineering which leads to a degree of Bachelor of Petroleum Engineering; (3) a Five-year curriculum in Petroleum Engineering, Geological Option, which leads to a degree of Bachelor of Petroleum Engineering.

Both five-year courses include all of the courses given in the four-year curriculum.

At least two months of approved field work are required in all of these courses before graduation. The student should secure this practical experience as early as possible.

The four-year curriculum in Petroleum Engineering includes sufficient training in civil, mechanical, and electrical engineering to prepare the graduate for the application of engineering principles to the petroleum industry. Courses in Geology give an understanding of the geological structures and conditions favorable for petroleum deposits. To the basic subjects are added courses in petroleum engineering which illustrate the application of engineering principles to the type of problems met in the petroleum industry and which also give some understanding of the technique of the industry. Emphasis is placed on thorough grounding in the fundamentals, rather than on application to particular problems.

PETROLEUM-MECHANICAL ENGINEERING

The five-year curriculum in Petroleum-Mechanical Engineering leads to Bachelor of Science Degrees in both Petroleum Engineering and Mechanical Engineering. The scope of the work in the petroleum industry is so broad and so varied that it is desirable for the man who expects to enter this field to have a very comprehensive training. This course is designed to give such breadth of training by including the essential courses in both the petroleum and mechanical curricula. The production, transportation, and refining of oil involves the generation and utilization of power, the design and operation of mechanical equipment, the principles of heat transfer, and the handling of men and finances. Thus, a five-year curriculum combining the two courses was deemed necessary.

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 manufac-

ture 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 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 mangers. 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

The School of Veterinary Medicine is organized in six departments, namely: Veterinary Anatomy, Veterinary Hygiene, Veterinary Medicine and Surgery (includes Veterinary Medicine, Veterinary Surgery and Veterinary Clinics), Veterinary Pathology, Veterinary Parasitology, and Veterinary Physiology and Pharmacology. The course of study involves credits on one hundred and eighty-nine hours of suitable grades obtained in standard colleges. All credit for veterinary subjects must be obtained in a veterinary school, college or university accredited and recognized by the American Veterinary Medical Association and the Bureau of Animal Industry, United States Department of Agriculture. The objective of the School of Veterinary Medicine is that training in all departments will be adequate in every phase and will meet with the approval of the Committee on Education of the American Veterinary Medical Association. It is understood that in registration for subjects they be sequential and meet with the approval or be approved by the faculty of the School of Veterinary Medicine. The basic, business and professional training is of such a nature that graduates from the School of Veterinary Medicine are qualified to administer and advise in matters of diseases of farm and ranch animals, including poultry; pet animals; zoo animals; wild life; fur bearing animals; Public Health, particularly, the inter-transmission of diseases of animals and people. Authoritative training is given in milk hygiene (inspection) and meat hygiene (inspection).

Graduates are trained and have successfully performed the responsibilities of:

PRACTICE OF VETERINARY MEDICINE

In Texas there are five hundred thousand farms with live stock, hundreds of ranches for live stock production including poultry, and millions of owners of pet animals. All of these activities in order to be profitable require veterinary service and they have certain public health aspects that require correlation with the health of people.

VETERINARY-BUREAU OF ANIMAL INDUSTRY

The various divisions of the Bureau such as Administration, Animal Diseases, Animal Husbandry, Animal Nutrition, Bio-chemic, Tick Eradication and other diseases, Virus--Serum Control, Field Inspection, Meat Inspection, Packers and Stock Yards, Pathological, Tuberculosis, and Zoological employ many veterinarians.

MEAT AND MILK INSPECTION

Federal, state, county, municipal and proprietary.

STATE BOARDS OF HEALTH

Veterinarians are employed on their staffs.

STATE LIVE STOCK SANITARY COMMISSIONS

Veterinarians are employed for administrative, technical and field work.

OFFICERS, VETERINARY CORPS, UNITED STATES ARMY
RESEARCH WORKERS

Agricultural Experiment Stations and other re-search institutions, United States Public Health Service, Medical Foundations, producers of biologics and pharmaceutical preparations, manufactures of feed stuffs.

FINANCE ORGANIZATIONS

Investment Companies, Insurance Companies and Trusts.

TEACHERS

Veterinary and Agricultural Colleges.

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 authorized 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 are 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, theses, 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 in research in certain fields related to agriculture, veterinary medicine, 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, Petroleum 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.

CURRICULA

Theory, Practice.—In the curricula shown in 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, unless excused by the faculty for one of the following reasons: (a) Completion of an equivalent course in another college; (b) The presentation of advanced credits in a considerable number of subjects.

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; 9, Horticulture; and 13, Fish and Game Conservation)

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	**Chemistry 102** Inorganic Chemistry	(3-3)	4
English 103 Rhetoric and Composition	(3-0)	3	**English 104** Rhetoric and Composition	(3-0)	3
Mathematics 109 Agricultural Mathematics	(3-0)	3	[1]**Horticulture 201** Plant Propagation	(2-2)	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 Agricultural Resources	(4-0)	4	**Agronomy 105** Crop Production	(3-2)	4
Animal Husbandry 107 General Animal Husbandry	(2-4)	3	**Biology 101** General Botany	(3-4)	4
Biology 107 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	**Mathematics 109** Agricultural Mathematics	(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

Suggested electives for all Groups in the Sophomore year:

Accounting and Statistics 201 Principles of Accounting	(3-3)	4	**Accounting and Statistics 202** Principles of Accounting	(3-3)	4
Agricultural Engineering 203 Gas Engines	(2-2)	3	**Animal Husbandry 202** Breed Types	(2-2)	3
Animal Husbandry 203 Market Classes and Grades	(2-2)	3	**Economics 316** Business Law	(3-0)	3
Fish and Game Conserv. 201 Conservation and Management	(3-0)	3	**Horticulture 202** Vegetable Gardening	(2-2)	3
Poultry Husbandry 201 Poultry Production	(2-2)	3	**Landscape Art 305** General Forestry	(2-0)	2
Rural Sociology 201 Introduction to Social Problems	(3-0)	3	**Rural Sociology 204** Introductory Rural Sociology	(3-0)	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.

[1]Students in Group 13 (Fish and Game Conservation) will substitute Poultry Husbandry 201 for Horticulture 201.

GROUP 4. AGRONOMY

SOPHOMORE YEAR

First Semester		Credit	Second Semester		Credit
Agricultural Engineering 201 Farm Machinery	(2-2)	3	**Biology 206** Bacteriology	(2-4)	3
Agronomy 301 Soils	(3-2)	4	**Chemistry 212** Agricultural Chemistry	(3-0)	3
Dairy Husbandry 202 Dairying	(2-4)	3	**Chemistry 214** Agricultural Analysis	(1-3)	2
English 203 Composition and Literature	(2-0)	2	**Economics 403** Principles of Economics	(3-0)	3
Entomology 201 General Entomology	(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
		19			18

JUNIOR YEAR

Agricultural Engineering 305 Terracing and Drainage	(2-3)	3	**Biology 314** Plant Physiology	(2-4)	3
Biology 313 Plant Physiology	(2-4)	3	**Genetics 304** Plant Breeding	(3-2)	4
Genetics 301 Genetics	(3-2)	4	**History 306** American Government	(3-0)	3
[2]**Elective**		8	[2]**Elective**		8
		18			18

SENIOR YEAR

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

[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:

Agronomy 314 Cereal Crops	(3-2)	4	**Agronomy 308** Forage Crops	(2-2)	3
Agronomy 316 Cotton Production	(2-2)	3	**Agronomy 318** Agrostology	(1-4)	2
Agronomy 316 Commercial Grading	(1-3)	2	**Agronomy 410** Soil Mapping	(0-3)	1
Agronomy 413 Soil and Crop Problems	(3-0)	3	**Agronomy 416** Soil and Crop Seminar	(1-0)	1
Agronomy 415 Soil and Crop Seminar	(1-0)	1	**Agronomy 420** Cotton Research Problems	(1-0)	1
Agronomy 417 Range and Pasture Improvement	(2-0)	2	**Agronomy 422** Soil Fertility	(3-4)	4
Agronomy 418 Soil Conservation	(3-3)	4	**Agronomy 424** Quality in Cotton	(2-2)	3
Agronomy 425 Farm Appraisal	(2-3)	3			

GROUP 5. ANIMAL HUSBANDRY

SOPHOMORE YEAR

Biology 206 Bacteriology	(2-4)	3	**Agricultural Engineering 201** Farm Machinery	(2-2)	3
Dairy Husbandry 202 Dairying	(2-4)	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

First Semester	Credit	Second Semester	Credit
Agronomy 301 (3-2) Soils	4	**History 306** (3-0) American Government	3
Animal Husbandry 303 (3-3) Animal Nutrition	4	[3]**Elective**	15
Genetics 301 (3-2) Genetics	4		18
[3]**Elective**	6		
	18		

SENIOR YEAR

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

[3]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 (1-3) Farm Meats	2	**Animal Husbandry 406** (3-0) Beef Cattle Production	3
Animal Husbandry 308 (1-3) Livestock Judging	2	**Animal Husbandry 407** (0-3) Beef Cattle Prod. Lab.	1
Animal Husbandry 413 (3-0) Horse and Mule Production	3	**Animal Husbandry 410** (2-3) Sheep and Angora Goat Production	3
Animal Husbandry 414 (0-3) Horse Prod. Lab.	1	**Animal Husbandry 411** (0-3) Sheep Prod. Lab.	1
Animal Husbandry 419 (1-3) Meat Preservation Problems	2	**Animal Husbandry 412** (3-0) Swine Production	3
Animal Husbandry 421 (2-0) Advanced Studies of Breeds of Live Stock	2	**Animal Husbandry 415** (0-3) Swine Prod. Lab.	1
Animal Husbandry 427 (1-0) Seminar	1	**Animal Husbandry 418** (2-3) Wool and Mohair	3
Animal Husbandry 429 (2-2) Adv. Wool and Mohair	3	**Animal Husbandry 420** (2-0) Quality in Meats	2
Animal Husbandry 310 (1-3) Meats Judging	2	**Animal Husbandry 424** (3-0) Range Live Stock Production	3
Animal Husbandry 403 (0-6) Advanced Judging	2	**Animal Husbandry 428** (1-0) Seminar	1

GROUP 7 A. DAIRY PRODUCTION

SOPHOMORE YEAR

Agricultural Engineering 201 (2-2) Farm Machinery	3	**Biology 206** (2-4) Bacteriology	3
Dairy Husbandry 202 (2-4) 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

Agronomy 301 (3-2) Soils	4	**History 306** (3-0) American Government	3
Genetics 301 (3-2) Genetics	4	[4]**Elective**	15
[4]**Elective**	11		18
	19		

SENIOR YEAR

First Semester		Credit	Second Semester		Credit
Animal Husbandry 303 Animal Nutrition	(3-3)	4	**Agricultural Engineering 424** Terracing	(1-3)	2
[4]**Elective**		14	**English 401** Public Speaking	(0-2)	1
		18	**Rural Sociology 415** Agricultural Journalism	(2-2)	3
			[4]**Elective**		12
					18

[4]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	(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	(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 409 Adv. Study of Dairy Breeds	(1-4)	2	**Dairy Husbandry 415** Condensed Milk	(3-0)	3
Dairy Husbandry 417 History and Development of Dairy Cattle	(3-3)	4	**Dairy Husbandry 418** Feeding and Management	(3-2)	4
Dairy Husbandry 421 Dairy Husbandry Seminar	(1-0)	1	**Dairy Husbandry 422** Dairy Husbandry Seminar	(1-0)	1

GROUP 7 B. DAIRY MANUFACTURES

SOPHOMORE YEAR

Accounting and Statistics 201 Principles of Accounting	(3-3)	4	**Biology 206** Bacteriology	(2-4)	3
Dairy Husbandry 202 Dairying	(2-4)	3	**Chemistry 212** Agricultural Chemistry	(3-0)	3
English 203 Composition and Literature	(2-0)	2	**Chemistry 214** Agricultural Analysis	(1-3)	2
History 306 American Government	(3-0)	3	**Economics 403** Principles of Economics	(3-0)	3
Physics 201 College Physics	(3-2)	4	**English 210** Writing and Discussion	(2-0)	2
Military Science	(1-2)	1	**Military Science**	(1-2)	1
		17	**Elective**		5
					19

JUNIOR YEAR

Dairy Husbandry 301 Market Milk	(3-2)	4	**Dairy Husbandry 306** Butter Making	(3-2)	4
Dairy Husbandry 320 Bacteriology of Dairy Products	(3-4)	4	**Dairy Husbandry 322** Advanced Dairy Bacteriology	(2-3)	3
Genetics 301 Genetics	(3-2)	4	**Dairy Husbandry 311** Technical Control	(2-3)	3
Mechanical Enginering 213 Dairy Mechanics	(2-2)	3	**Elective**		8
Elective		3			18
		18			

SENIOR YEAR

First Semester		Credit	Second Semester		Credit
Animal Husbandry 303 Animal Nutrition	(3-3)	4	Dairy Husbandry 408 Cheese Making	(2-3)	3
Dairy Husbandry 407 Ice Cream Making and Refrig.	(3-2)	4	Dairy Husbandry 415 Condensed Milk	(3-0)	3
English 401 Public Speaking	(0-2)	1	Dairy Husbandry 418 Feeding and Management	(3-2)	4
Elective		9	Rural Sociology 415 Agricultural Journalism	(2-2)	3
		18	Elective		5
					18

GROUP 8. ENTOMOLOGY

SOPHOMORE YEAR

Biology 206 Bacteriology	(2-4)	3	Agricultural Engineering 201 Farm Machinery	(2-2)	3
Dairy Husbandry 202 Dairying	(2-4)	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	[5]Elective		15
[5]Elective		11			18
		18			

SENIOR YEAR

History 306 American Government	(3-0)	3	English 401 Public Speaking	(0-2)	1
Rural Sociology 415 Agricultural Journalism	(2-2)	3	[5]Elective		17
[5]Elective		12			18
		18			

[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:

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 416 Quarantine Measures	(3-0)	3
Entomology 417 Special Problems	(3-2)	4	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
Agronomy 301 Soils	(3-2)	4	**Chemistry 212** Agricultural Chemistry	(3-0)	3
Dairy Husbandry 202 Dairying	(2-4)	3	**Chemistry 214** Agricultural Analysis	(1-3)	2
English 203 Composition and Literature	(2-0)	2	**Economics 403** Principles of Economics	(3-0)	3
Entomology 201 General Entomology	(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
		19			18

JUNIOR YEAR

Biology 313 Plant Physiology	(2-4)	3	**Biology 314** Plant Physiology	(2-4)	3
Genetics 301 Genetics	(3-2)	4	**History 306** American Government	(3-0)	3
[6]**Elective**		11	[6]**Elective**		12
		18			18

SENIOR YEAR

English 401 Public Speaking	(0-2)	1	**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
[6]**Elective**		10	[6]**Elective**		10
		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:

Horticulture 309 Com. Veg. Crops	(2-2)	3	**Horticulture 310** Com. Veg. Crops	(2-2)	3
Horticulture 311 Vegetable Products	(1-3)	2	**Horticulture 312** Vegetable Products	(1-3)	2
Horticulture 317 Principles of Fruit Production	(2-3)	3	**Horticulture 318** Principles of Fruit Production	(2-3)	3
Horticulture 401 Systematic Pomology	(3-2)	4	**Horticulture 418** Nut Culture	(1-3)	2
Horticulture 423 Geog. of Hort. Industries	(2-0)	2	**Horticulture 422** Subtropical Fruits	(3-2)	4
Horticulture 427 Seminar	(1-0)	1	**Horticulture 425** History of Horticulture	(2-0)	2
			Horticulture 426 Commercial Propagation	(2-3)	3
			Horticulture 428 Seminar	(1-0)	1
			Horticulture 430 Bush and Vine Fruits	(2-2)	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	(2-4)	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 306** American Government	(3-0)	3
Genetics 301 Genetics	(3-2)	4	[7]**Elective**		12
[7]**Elective**		6			18
		18			

SENIOR YEAR

Agricultural Engineering 413 Farm Buildings	(2-3)	3	**English 401** Public Speaking	(0-2)	1
Rural Sociology 415 Agricultural Journalism	(2-2)	3	[7]**Elective**		17
[7]**Elective**		12			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.

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 308** Hatchery 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

GROUP 12. RURAL SOCIOLOGY

SOPHOMORE YEAR

Biology 206 Bacteriology	(2-4)	3	**Agricultural Engineering 201** Farm Machinery	(2-2)	3
Dairy Husbandry 202 Dairying	(2-4)	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

JUNIOR YEAR

First Semester		Credit	Second Semester		Credit
Education 321 Secondary School Methods	(3-0)	3	**Education 322** Secondary School Administration	(3-0)	3
[8]**Elective**		15	[8]**Elective**		15
		18			18

SENIOR YEAR

History 306 American Government	(3-0)	3	**English 401** Public Speaking	(0-2)	1
Rural Sociology 415 Agricultural Journalism	(2-2)	3	[8]**Elective**		17
[8]**Elective**		12			18
		18			

[8]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 Social Psychology	(3-0)	3	**Rural Sociology 312** General Sociology	(3-0)	3
Rural Sociology 315 Family Relations	(3-0)	3	**Rural Sociology 404** Rural Organization	(3-0)	3
Rural Sociology 407 Rural Sociology	(2-2)	3	**Rural Sociology 416** Agricultural Journalism	(2-2)	3
Rural Sociology 306 Rural Social Work	(3-0)	3			

GROUP 13. FISH AND GAME CONSERVATION

SOPHOMORE YEAR

Biology 105 General Zoology	(2-4)	3	**Biology 106** General Zoology	(2-4)	3
English 203 Composition and Literature	(2-0)	2	**Biology 346** Systematic Botany	(1-5)	3
Entomology 201 General Entomology	(2-2)	3	**English 210** Writing and Discussion	(2-0)	2
Fish and Game Conserv. 201 Conservation and Management	(3-0)	3	**History 306** American Government	(3-0)	3
Landscape Art 303 Elementary Forestry	(2-2)	3	**Military Science**	(1-2)	1
Military Science	(1-2)	1	**Elective**		6
Elective		3			18
		18			

JUNIOR YEAR

Agricultural Economics 312 Agricultural Economics	(3-0)	3	**Agronomy 301** Soils	(3-2)	4
Biology 217 Comparative Anatomy	(2-4)	3	**Biology 218** Comparative Anatomy	(2-4)	3
[9]**Elective**		12	**English 307** Technical Writing	(2-0)	2
		18	[9]**Elective**		9
					18

SENIOR YEAR

English 401 Public Speaking	(0-2)	1	**Agronomy 418** Soil Conservation	(3-3)	4
[9]**Elective**		17	[9]**Elective**		14
		18			18

[9]A minimum of 16 credit hours in Fish and Game Conservation must be taken as part of the elective work in the junior and senior years. Other electives should be selected from the following.

First Semester	Credit	Second Semester	Credit
Agricultural Engineering 305.....(2-3) Terracing and Drainage	3	**Agricultural Economics 421**.....(3-2) Prin. of Farm Management	4
Agronomy 417.....(2-0) Range and Pasture Improvement	2	**Agricultural Economics 430**.....(3-0) Farm Credit	3
Animal Husbandry 303.....(3-3) Animal Nutrition	4	**Agronomy 410**.....(0-3) Soil Mapping	1
Biology 206.....(2-4) Introductory Bacteriology	3	**Animal Husbandry 424**.....(3-0) Range Livestock Production	3
Biology 341.....(3-4) General Physiology	4	**Biology 342**.....(3-4) General Physiology	4
Entomology 301.....(2-4) Systematic Entomology	3	**Economics 403**.....(3-0) Principles of Economics	3
Fish and Game Conserv. 203.....(2-3) Wildlife Photography	3	**Entomology 208**.....(2-2) Animal Parasites	3
Fish and Game Conserv. 401.....(2-6) General Mammalogy	4	**Entomology 302**.....(2-4) Systematic Entomology	3
Fish and Game Conserv. 405.....(2-6) Systematic Study of Fishes	4	**Entomology 312**.....(3-2) Medical Entomology	4
Genetics 301.....(3-2) Genetics	4	**Fish and Game Conserv. 304**.....(3-0) Cons. and Manag. of Fishes	3
Landscape Art 307.....(2-0) Park and Recreation Development	2	**Fish and Game Conserv 402**.....(2-6) Ornithology	4
Poultry Husbandry 301.....(2-2) Market Poultry	3	**Fish and Game Conserv. 403**.....(2-6) Ecology of Animals and Plants	4
Rural Sociology 407.....(2-2) Rural Sociology	3	**Fish and Game Conserv. 404**.....(2-6) Pond and Stream Improvement	4
Rural Sociology 415.....(2-2) Agricultural Journalism	3	**Landscape Art 316**.....(2-2) Dendrology and Silvics	3
		Vet. Phys. & Pharm. 322.....(2-2) Phys. & Anat. of Farm Animals	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 111.....(2-4) General Biology	3	**Biology 112**.....(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 306.....(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

[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.

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.

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.....(0-2) Public Speaking	1	**Elective**.....	9
Elective.....	7		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

First Semester		Credit	Second Semester		Credit
Accounting and Statistics 303 Statistical Method	(3-3)	4	**Accounting and Statistics 406** Agricultural and Business Cycles	(3-0)	3
Agricultural Economics 307 Advertising	(3-0)	3	**Agricultural Economics 310** Credit and Collections	(3-0)	3
Agricultural Economics 413 Prin. and Practice of Cooperation	(3-0)	3	**Agricultural Economics 410** Transportation	(3-0)	3
Economics 311 Money and Banking	(3-0)	3	**Economics 316** Business Law	(3-0)	3
Elective		5	**History 306** American Government	(3-0)	3
		18	**Elective**		3
					18

SENIOR YEAR

Agricultural Economics 425 Wholesale and Retail Merchandising	(3-0)	3	**Agricultural Economics 423** Conserv. of Nat. Resources	(3-0)	3
Agricultural Economics 427 Cotton Marketing	(3-0)	3	**Agricultural Economics 426** Sales Organization	(3-0)	3
Agricultural Economics 429 Economic Policy for Agriculture	(2-0)	2	**Agricultural Economics 430** Farm Credit	(3-0)	3
Economics 315 Economics of Insurance	(3-0)	3	**English 401** Public Speaking	(0-2)	1
English 317 Commercial Correspondence	(2-0)	2	**Elective**		8
Elective		5			18
		18			

CURRICULUM IN AGRICULTURAL EDUCATION

FRESHMAN YEAR

Agricultural Economics 101 Agricultural Resources	(4-0)	4	**Agronomy 105** Crop Production	(3-2)	4
Animal Husbandry 107 General Animal Husbandry	(2-4)	3	**Biology 107** Zoology	(2-4)	3
Biology 101 General Botany	(3-4)	4	**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	**Mathematics 109** Agricultural Mathematics	(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
		19			18

SOPHOMORE YEAR

Agricultural Engineering 321 Farm Shop	(1-3)	2	**Agricultural Economics 312** Agricultural Economics	(3-0)	3
Chemistry 212 Agricultural Chemistry	(3-0)	3	**Agricultural Engineering 201** Farm Machinery	(2-2)	3
Chemistry 214 Agricultural Analysis	(1-3)	2	**Agricultural Engineering 322** Farm Shop	(1-3)	2
English 203 Composition and Literature	(2-0)	2	**Dairy Husbandry 202** Dairying	(2-4)	3
History 306 American Government	(3-0)	3	**English 210** Writing and Discussion	(2-0)	2
Horticulture 201 Plant Propagation	(2-2)	3	**Entomology 204** Insecticides	(2-2)	3
Military Science	(1-2)	1	**Military Science**	(1-2)	1
Poultry Husbandry 201 Poultry Production	(2-2)	3			17
		19			

JUNIOR YEAR

First Semester	Credit	Second Semester	Credit
Agricultural Engineering 424.....(1-3) Terracing	2	**Agricultural Education 302**.....(3-0) Prin. of Ag. 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 420**.....(3-2) Dairy Management	4
Psychology 301.....(3-0) Educational Psychology	3	**Elective**.....	3
Elective.....	3		18
	19		

SENIOR YEAR

Agricultural Economics 421.....(3-2) Prin. of Farm Management	4	**Agricultural Economics 430**.....(3-0) Farm Credit	3
Agricultural Education 401.....(2-6) Teaching Vocational Agriculture	4	**Agricultural Education 402**.....(2-6) Teaching Vocational Agriculture	4
Horticulture 317.....(2-3) Fruit Production	3	**Agronomy 418**.....(3-3) Soil Conservation	4
Poultry Husbandry 401.....(3-2) Culling and Management	4	**English 401**.....(0-2) Public Speaking	1
Elective.....	3	**Landscape Art 301**.....(3-4) Introduction to Landscape Art	4
	18	**Elective**.....	3
			19

CURRICULUM IN AGRICULTURAL ENGINEERING

FRESHMAN YEAR

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

SOPHOMORE YEAR

Agricultural Engineering 205.....(2-3) Farm Buildings and Structures	3	**Agricultural Engineering 208**.....(3-3) Farm Machinery	4
Civil Engineering 201.....(3-4) Plane Surveying	4	**Animal Husbandry 107**.....(2-4) General Animal Husbandry	3
English 203.....(2-0) Composition and Literature	2	**English 210**.....(2-0) Writing and Discussion	2
Mathematics 203.....(4-0) Calculus	4	**Mathematics 204**.....(4-0) Calculus	4
Military Science.....(1-2)	1	**Military Science**.....(1-2)	1
Physics 203.....(4-3) General Physics	5	**Physics 204**.....(4-3) General Physics	5
	19		19

JUNIOR YEAR

First Semester		Credit	Second Semester		Credit
Agricultural Engineering 323 Gas Engines	(2-2)	3	**Agricultural Engineering 216** Automotive Machinery	(3-3)	4
Agronomy 301 Soils	(3-2)	4	**Agronomy 315** Cotton Production	(2-2)	3
Dairy Husbandry 202 Dairying	(2-4)	3	**Civil Engineering 305** Mechanics of Materials	(4-0)	4
History 306 American Government	(3-0)	3	**Economics 403** Principles of Economics	(3-0)	3
Mechanical Engineering 212 Engineering Mechanics	(3-0)	3	**Elective**		5
Elective		3			19
		19			

SENIOR YEAR

Agricultural Engineering 410 Irrigation	(1-3)	2	**Agricultural Engineering 418** Farm Home Utilities	(2-3)	3
Agricultural Engineering 413 Farm Buildings	(2-3)	3	**Agricultural Engineering 426** Seminar	(1-0)	1
Agricultural Engineering 425 Seminar	(1-0)	1	**Agricultural Engineering 428** Conserv. and Reclamation	(3-4)	4
Civil Engineering 311 Hydraulics	(3-0)	3	**Agricultural Engineering 430** Rural Electrification	(2-3)	3
Civil Engineering 336 Hydraulics Laboratory	(0-2)	1	**Elective**		8
Electrical Engineering 431 Engineering Administration	(2-0)	2			19
English 401 Public Speaking	(0-2)	1			
Elective		6			
		19			

CURRICULUM IN LANDSCAPE ART

FRESHMAN YEAR

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	**Engineering Drawing 111** Mechanical Drawing	(0-6)	2
English 103 Rhetoric and Composition	(3-0)	3	**English 104** Rhetoric and Composition	(3-0)	3
Mathematics 103 Trigonometry	(3-0)	3	**Horticulture 201** Plant Propagation	(2-2)	3
Military Science	(1-2)	1	**Military Science**	(1-2)	1
Physical Education 101	(0-2)	R	**Physical Education 102**	(0-2)	R
		18			17

SOPHOMORE YEAR

Agricultural Engineering 201 Farm Machinery	(2-2)	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	(2-4)	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	**Fish and Game Conserv. 201** Conservation and Management	(3-0)	3
Landscape Art 307 Park and Recreation Devel.	(2-0)	2	**Landscape Art 308** Park and Recreation Devel.	(2-0)	2
Military Science	(1-2)	1	**Psychology 207** Psychology	(3-0)	3
Elective		3	**Military Science**	(1-2)	1
		18			18

JUNIOR YEAR

First Semester		Credit	Second Semester		Credit
Agricultural Engineering 305 Terracing and Drainage	(2-3)	3	**Architecture 206** Freehand Drawing	(0-4)	1
Agronomy 301 Soils	(3-2)	4	**Biology 314** Plant Physiology	(2-4)	3
Architecture 205 Freehand Drawing	(0-4)	1	**Entomology 204** Insecticides	(2-2)	3
Biology 313 Plant Physiology	(2-4)	3	[11]**Elective**		11
[11]**Elective**		7			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	(0-2)	1	**History 306** American Government	(3-0)	3
Horticulture 317 Fruit Production	(2-3)	3	**Rural Sociology 415** Agricultural Journalism	(2-2)	3
[11]**Elective**		11	[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 302** Design of Small Areas	(1-4)	2
Landscape Art 303 Elementary Forestry	(2-2)	3	**Landscape Art 304** Landscape Construction	(0-6)	2
Landscape Art 401 Advanced Landscape Art	(3-8)	6	**Landscape Art 305** General Forestry	(2-0)	2
Landscape Art 403 Advanced Ornamentals	(2-4)	3	**Landscape Art 306** Ornamentals	(2-2)	3
			Landscape Art 316 Dendrology and Silvics	(2-2)	3
			Landscape Art 402 Advanced Landscape Art	(3-8)	6
			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 111 General Biology	(2-4)	3	Biology 112 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 102, 103, or 110	(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 106 General Chemistry	(3-3)	4
English 231 English Literature	(3-0)	3	Economics 204 Principles of Economics	(3-0)	3
Geology 205 Elementary Geology	(2-2)	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 306 American Government	(3-0)	3
			Elective		15
					18

SENIOR YEAR

English 401 Public Speaking	(0-2)	1	Elective		18
Elective		17			
		18			

NOTES

1. Transfers who have credit for 6 hours of Botany or Zoology may substitute such Credit for Biology 111, 112.
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.
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 97.
2. Students who major in Education or Physical Education follow modified Liberal Arts programs outlined on page 102. See also page 72.
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 adequate 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	**Accounting and Statistics 201-202** Principles of Accounting
History 105-106 United States History	**Economics 203-204** Principles of Economics
Biology 111-112 General Biology	**English 231-232** English Literature
Mathematics 101-103 Algebra; Trigonometry	**History 211** Comparative Government
An Approved Elective	**History 213-214** History of England
Military Science	**History 306** American Government
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

With the approval of the Head of the Department of Economics and of the Dean of the School of Arts and Sciences, students planning to major in economics may omit the modern language required in the freshman and sophomore years, substituting for it Rural Sociology 201, History 217-218, and 3 hours of junior or senior elective work, and on completion of all other requirements receive the Bachelor of Science degree 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

Accounting and Statistics 303 Statistical Method	(3-3)	4
Economics 311 Money and Banking	(3-0)	3
Psychology 207 Psychology	(3-0)	3
Elective		7
		17

Economics 316 Business Law	(3-0)	3
Economics 318 Labor Problems	(3-0)	3
History 322 Industrial History of the U. S.	(3-0)	3
Elective		8
		17

SENIOR YEAR

Economics 315 Insurance	(3-0)	3
Economics 413 Advanced Economic Theory	(3-0)	3
English 401 Public Speaking	(0-2)	1
Elective		11
		18

Economics 409 Foreign Trade and Exchange	(3-0)	3
Economics 412 Public Finance and Taxation	(3-0)	3
Economics 414 Advanced Economic Theory	(3-0)	3
History 306 American Government	(3-0)	3
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 96 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), Economics 425 (Insurance Law), Economics 426 (Real Estate Titles and Conveyances), Economics 427 (International Economic Policies), 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 99).

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 100.

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 101, 105, or 111	(2-4)	3	**Biology 102, 106, or 112**	(2-4)	3
Chemistry 101 or 103 Inorganic Chemistry	(3-4)	4	**Chemistry 102 or 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

English 231 English Literature	(3-0)	3	**English 232** English Literature	(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
Physics 201 College Physics	(3-2)	4	**Physics 202** College Physics	(3-2)	4
Elective		7	**Elective**		7
		18			18

JUNIOR YEAR

First Semester		Credit	Second Semester		Credit
Economics 403 Principles of Economics	(3-0)	3	History 306 American Government	(3-0)	3
Elective		15	Elective		15
		18			18

SENIOR YEAR

English 401 Public Speaking	(0-2)	1	Elective		18
Elective		17			
		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 regular program of studies in the freshman year, except that he must take Biology 105, 106 and Chemistry 103-104.

If the student is unable to spend more than two years in preparation for the study of medicine he should substitute Psychology 207 (Phychology) and History 305 (American Government) for English 231-232 and elect Biology 217, 218 (Comparative Vertebrate Anatomy) and Chemistry 301-302 (Organic Chemistry) in the sophomore year.

The above program covers the minimum requirements for admission to Medical School. If possible students should follow and 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. (The Medical Branch of The University of Texas now requires three years of premedical work for admission.) Students who complete at least this three-year program which includes the minimum premedical 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

Biology 105 Zoology	(2-4)	3	Biology 106 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

First Semester		Credit	Second Semester		Credit
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 306 American Government	(3-0)	3	Economics 403 Principles of Economics	(3-0)	3
English 307 Technical Writing	(2-0)	2	English 401 Public Speaking	(0-2)	1
Elective		13	Elective		14
		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

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

First Semester	Credit	Second Semester	Credit
Economics 403.....(3-0) Principles of Economics	3	**English 307**.....(2-0) Technical Writing	2
English 203.....(2-0) Composition and Literature	2	**Geology 306**.....(3-3) Paleontology	4
Geology 305.....(3-3) Paleontology	4	**Geology 404**.....(3-0) Geology of Petroleum	3
Geology 312.....(3-4) Structural Geology	4	**Geology 406**.....(4-0) Economic Geology	4
Geology 405.....(4-0) Economic Geology	4	**History 306**.....(3-0) American Government	3
Elective.....	3	**Elective**.....	3
	20		19

PROGRAM FOR STUDENTS MAJORING IN GEOLOGY

(CHEMISTRY OPTION, which prepares for graduate work in either Geology or Chemistry).

FRESHMAN YEAR

(As for all physical science majors)

SOPHOMORE YEAR

Chemistry 205.....(3-6) Qualitative Analysis	5	**Chemistry 216**.....(2-8) Elementary Quantitative Analysis	5
Geology 203.....(3-4) Mineralogy and Rock Study	4	**English 210**.....(2-0) Writing and Discussion	2
Mathematics 203.....(4-0) Calculus	4	**Geology 204**.....(3-4) Mineralogy and Rock Study	4
Modern Language 103.....(3-0) Beginning German	3	**Mathematics 204**.....(4-0) Calculus	4
Military Science.....(1-2)	1	**Modern Language 104**.....(3-0) Beginning German	3
	17	**Military Science**.....(1-2)	1
			19

JUNIOR YEAR

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

SUMMER WORK

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

SENIOR YEAR

Chemistry 323.....(3-3) Physical Chemistry	4	**Chemistry 324**.....(3-3) Physical Chemistry	4
Economics 403.....(3-0) Principles of Economics	3	**English 307**.....(2-0) Technical Writing	2
English 203.....(2-0) Composition and Literature	2	**Geology 304**.....(3-4) Petrography and Petrology	4
Geology 303.....(3-4) Petrography and Petrology	4	**Geology 404**.....(3-0) Geology of Petroleum	3
Geology 312.....(3-4) Structural Geology	4	**History 306**.....(3-0) American Government	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 72 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

First Semester		Credit	Second Semester		Credit
Biology 111 General Biology	(2-4)	3	**Biology 112** 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 102, 103, or 110**	(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 205 Elementary Geology	(2-2)	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

JUNIOR YEAR

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 306** American Government	(3-0)	3
Rural Sociology 311 Social Psychology	(3-0)	3	**Physical Education 406** Meth. of Physical Education	(3-0)	3
Elective		8	**Elective**		9
		17			18

SENIOR YEAR

Education 426 Tests and Measurements	(3-0)	3	**Education 427** Administration of Pupil Personnel	(3-0)	3
English 401 Public Speaking	(0-2)	1	**[13]Elective**		15
[13]Elective		14			18
		18			

[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.

[13]Six hours of senior elective must be in education or educational psychology.

PROGRAM FOR PHYSICAL EDUCATION MAJORS

FRESHMAN YEAR

First Semester		Credit	Second Semester		Credit
Biology 105 Zoology	(2-4)	3	**Biology 106** 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 106** General 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 313 Introduction to Physical Education	(3-0)	3	**History 306** American Government	(3-0)	3
Physical Education 317 Coaching of Football	(2-0)	2	**Physical Education 314** Organization and Administration	(3-0)	3
Physical Education 319 Coaching of Basketball	(2-0)	2	**Elective**		8
Psychology 301 Educational Psychology	(3-0)	3			17
Elective		4			
		17			

SENIOR YEAR

English 401 Public Speaking	(0-2)	1	**Education 428** Junior High School Methods	(3-0)	3
Physical Education 405 Public School Activities	(3-0)	3	**Physical Education 406** Methods of Physical Education	(3-0)	3
Psychology 323 Psychology of Adolescence	(3-0)	3	**Physical Education 408** Coaching of Track	(2-0)	2
Elective		11	**Physical Education 410** Coaching of Baseball	(2-0)	2
		18	**Elective**		8
					18

[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.

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 106** General 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 306 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 1939-40.

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 401** Public Speaking	(0-2)	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	**Arrchitecture 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	(3-0)	3	**Civil Engineering 315** Materials Laboratory	(0-2)	1
Civil Engineering 347 Structural Drafting	(0-3)	1	**Civil Engineering 346** Structural Analysis and Design	(3-3)	4
English 203 Composition and Literature	(2-0)	2	[16]**Electrical Engineering 436** Elec. Equip. of Buildings	(3-0)	3
Mechanical Engineering 335 Mech. Equip. of Buildings	(3-0)	3	**English 210** Writing and Discussion	(2-0)	2
Elective		5	**Elective**		3
		20			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 401 Public Speaking	(0-2)	1	**Civil Engineering 414** Reinforced Concrete Design	(2-3)	3
History 306 American Government	(3-0)	3	**Economics 403** Principles of Economics	(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 1939-40.

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

SOPHOMORE YEAR

Chemistry 205 Qualitative Analysis	(3-6)	5	**Chemistry 216** Quantitative Analysis	(2-8)	5
English 203 Composition and Literature	(2-0)	2	**Economics 403** Principles of Economics	(3-0)	3
History 306 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 must include Chemical Engineering 305 and those not in advanced R. O. T. C. should also include German.

SENIOR YEAR

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	(2-6)	4
Electrical Engineering 305 Electrical Machinery	(3-3)	4	**Chemical Engineering 428** Ind. Chem. Processes	(3-0)	3
English 401 Public Speaking	(0-2)	1	**Chemistry 438** Seminar	(1-0)	1
Mechanical Engineering 403 Engineering Laboratory	(1-3)	2	**Mechanical Engineering 404** Engineering Laboratory	(1-3)	2
[18]**Elective**		3	[18]**Elective**		3
		18			17

CURRICULUM IN CIVIL ENGINEERING

FRESHMAN YEAR

(See page 106)

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 306 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

Cicil Engineering 305 Mechanics of Materials	(4-0)	4	**Civil Engineering 344** Reinforced Concrete	(2-0)	2
Civil Engineering 311 Hydraulics	(3-0)	3	**Civil Engineering 346** Structural Analysis and Design	(3-3)	4
Civil Engineering 315 Materials Laboratory	(0-2)	1	**Civil Engineering 448** Engineering Economy	(3-0)	3
Civil Engineering 335 Estimating and Drafting	(0-4)	1	**Electrical Engineering 305** Electrical Machinery	(3-3)	4
Civil Engineering 336 Hydraulics Laboratory	(0-2)	1	**Mechanical Engineering 324** Steam and Gas Power	(3-0)	3
Civil Engineering 345 Stresses in Structures	(3-0)	3	**Elective**		3
Civil Engineering 347 Structural Drafting	(0-3)	1			19
Economics 403 Principles of Economics	(3-0)	3			
Elective		3			
		20			

[18]Students not in advanced R. O. T. C. must include Chemistry 448 and should elect German.

SENIOR YEAR

NOTE: By proper choice of technical electives from the list below students may specialize to some extent in Highway, Hydraulics, Municipal, Sanitary, or Structural Engineering.

First Semester		Credit	Second Semester		Credit
Civil Engineering 407 Roads and Pavements	(3-0)	3	**Civil Engineering 414** Reinforced Concrete Design	(2-3)	3
Civil Engineering 465 Masonry and Foundations	(2-2)	3	**Civil Engineering 443** Materials of Construction	(0-4)	1
Civil Engineering 467 Steel Bridge Structures	(2-4)	3	**Civil Engineering 466** Professional Relations	(2-0)	2
Municipal and Sanitary Engineering 401 Sewerage and Sewage Disposal	(3-0)	3	**English 401** Public Speaking	(0-2)	1
[19]**Technical Electives**		6	**Municipal and Sanitary Engineering 402** Water Supply and Purification	(3-0)	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 Bituminous Materials	(2-3)	3	**Civil Engineering 456** Highway Adm. and Design	(2-3)	3
Civil Engineering 463 Hydrology	(3-0)	3	**Civil Engineering 458** Hydraulic Engineering	(3-0)	3
Civil Engineering 469 Steel Building Structures	(2-3)	3	**Civil Engineering 468** Statically Indeterminate Structures	(2-3)	3
Municipal and Sanitary Engineering 403 Sanitary Design	(1-5)	3	**Municipal and Sanitary Engineering 408** Municipal Administration	(3-0)	3
Municipal and Sanitary Engineering 406 Sanitation and Public Health	(3-0)	3	**Municipal and Sanitary Engineering 412** Sanitary Laboratory	(1-5)	3

CURRICULUM IN ELECTRICAL ENGINEERING

FRESHMAN YEAR

(See page 106)

SOPHOMORE YEAR

Electrical Engineering 201 Electricity and Magnetism	(3-6)	5	**Electrical Engineering 208** Direct Current Machinery	(3-6)	5
English 203 Composition and Literature	(2-0)	2	**English 210** Writing and Discussion	(2-0)	2
History 306 American Government	(3-0)	3	**Mathematics 204** Calculus	(4-0)	4
Mathematics 203 Calculus	(4-0)	4	**Mechanical Engineering 212** Engineering Mechanics	(3-0)	3
Mechanical Engineering 201 Welding and Foundry	(0-3)	1	**Mechanical Engineering 309** Machine Shop	(0-3)	1
Military Science	(1-2)	1	**Military Science**	(1-2)	1
Physics 207 General Physics	(3-3)	4	**Physics 208** General Physics	(3-3)	4
		20			20

JUNIOR YEAR

Civil Engineering 305 Mechanics of Materials	(4-0)	4	**Civil Engineering 206** Surveying	(1-3)	2
Civil Engineering 315 Materials Laboratory	(0-2)	1	**Economics 403** Principles of Economics	(3-0)	3
Electrical Engineering 315 Alternating Currents	(3-6)	5	**Electrical Engineering 316** Circuit and Field Theory	(5-0)	5
Mathematics 305 Differential Equations	(2-0)	2	**Electrical Engineering 318** Electrical Measurements	(0-6)	2
Mechanical Engineering 313 Engineering Mechanics	(3-0)	3	[20]**Mechanical Engineering 323** Thermodynamics	(4-0)	4
Mechanical Engineering 337 Kinematic Drawing	(0-3)	1	**Elective**		3
Elective		3			19
		19			

SENIOR YEAR

First Semester	Credit	Second Semester	Credit
Electrical Engineering 401.....(4-0) Alternating Current Machinery	4	**Electrical Engineering 402**.....(4-0) Alt. Current Machinery	4
Electrical Engineering 403.....(1-6) Alternating Current Laboratory	3	**Electrical Engineering 404**.....(1-6) Alt. Current Laboratory	3
Electrical Engineering 405.....(3-0) Electric Transmission	3	**Electrical Engineering 432**.....(3-0) Pub. Utility Problems	3
Electrical Engineering 431.....(2-0) Engineering Administration	2	**English 401**.....(0-2) 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 then 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 409**.....(3-3) Radio Communication 4
Electrical Engineering 426.....(3-3) Illumination Engineering 4
Geology 205.....(2-2) Elementary Geology 3
***Physics 407**.....(3-0) Geophysics 3
***Physics 409**.....(3-0) Acoustics 3
***Electrical Engineering 310**.....(2-2) Communication Engineering 3
Electrical Engineering 406.....(2-2) Elec. Distribution and Transmission 3
***Electrical Engineering 410**.....(2-3) Electron Tubes 3
Electrical Engineering 416.....(3-0) Motor Applications 3
***Electrical Engineering 428**.....(3-3) Communication Circuits 4
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 (3-0) Stresses in Structures and		Civil Engineering 311 (3-0) Hydraulics	3
Civil Engineering 347 (0-3) Structural Drafting or		Economics 316 (3-0) Business Law	3
Mechanical Engineering 323 (4-0) Thermodynamics	4	Electrical Engineering 308 (3-3) Electrical Machinery	4
Economics 403 (3-0) Principles of Economics	3	[22]Technical Elective	3
[23]Electrical Engineering 307 (3-3) Electrical Machinery	4	Elective	3
Elective	3		19
	18		

SENIOR YEAR

English 401 (0-2) Public Speaking	1	Economics 318 (3-0) Labor Problems	3
[24]History 306 (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 306 must substitute an approved subject for that course.

CURRICULUM IN INDUSTRIAL EDUCATION

GROUP 1. FOR INDUSTRIAL ARTS TEACHERS

FRESHMAN YEAR

Architecture 109 (0-4) Freehand Drawing	1	Architecture 110 (0-4) Freehand Drawing	1
Engineering Drawing 111 (0-6) Mechanical Drawing	2	Chemistry 106 (3-3) General Chemistry	4
English 103 (3-0) Rhetoric and Composition	3	Engineering Drawing 112 (0-4) Mechanical Drawing	1
Industrial Education 105 (1-5) Woodcraft	3	Engineering Drawing 124 (2-2) Descriptive Geometry	3
Mathematics 101 (3-0) Algebra	3	English 104 (3-0) Rhetoric and Composition	3
Mathematics 103 (3-0) Trigonometry	3	Industrial Education 106 (1-5) Sheet Metal	3
Mechanical Engineering 201 (0-3) Welding and Foundry	1	Mechanical Engineering 202 (0-3) Welding and Foundry	1
Military Science (1-2)	1	Military Science (1-2)	1
Physical Education (0-2)	R	Physical Education (0-2)	R
	17		17

SOPHOMORE YEAR

First Semester	Credit	Second Semester	Credit
Architecture 205.....(0-4) Freehand Drawing	1	**Architecture 206**.....(0-4) Freehand Drawing	1
Architecture 221.....(1-4) Architectural Construction	2	**Architecture 222**.....(1-4) Architectural Construction	2
English 203.....(2-0) Composition and Literature	2	**English 210**.....(2-0) Writing and Discussion	2
Industrial Education 205.....(1-5) Ornamental Iron	3	**Industrial Education 204**.....(3-0) Development and Practices	3
Mechanical Engineering 101.....(1-2) Engineering Problems	2	**Mechanical Engineering 102**.....(1-2) Engineering Problems	2
Mechanical Engineering 105.....(1-6) Bench Woodwork	3	**Mechanical Engineering 106**.....(1-6) Cabinet Making	3
Physics 201.....(3-2) College Physics	4	**Physics 202**.....(3-2) College Physics	4
Military Science.....(1-2)	1	**Military Science**.....(1-2)	1
	18		18

JUNIOR YEAR

English 307.....(2-0) Technical Writing	2	**Electrical Engineering 204**.....(2-4) Electric Wiring and Repairing	3
Education 321.....(3-0) Secondary School Methods	3	**History 306**.....(3-0) American Government	3
Industrial Education 301.....(3-0) Methods of Teaching and Class Management	3	**Industrial Education 310**.....(3-0) Course Making	3
Industrial Education 323.....(1-3) Teaching Mechanical Drawing	2	**Industrial Education 324**.....(1-3) Teaching Machine Drawing	2
Mechanical Engineering 309.....(0-3) Machine Shop	1	**Mechanical Engineering 310**.....(0-3) Machine Shop	1
Psychology 301.....(3-0) Educational Psychology	3	**Mechanical Engineering 329**.....(1-6) Advanced Cabinet Making	3
Elective.....	4	**Elective**.....	3
	18		18

SENIOR YEAR

Agricultural Engineering 321.....(1-3) Farm Shop	2	**Industrial Education 416**.....(2-5) Practice Teaching	4
Economics 403.....(3-0) Principles of Economics	3	**Industrial Education 419**.....(1-5) Laboratory Industrial Methods	3
English 401.....(0-2) Public Speaking	1	**Elective**.....	12
Industrial Education 406.....(2-0) Vocational Guidance	2		19
Industrial Education 415.....(2-5) Practice Teaching	4		
Elective.....	6		
	18		

CURRICULUM IN INDUSTRIAL EDUCATION

GROUP 2. FOR VOCATIONAL INDUSTRIAL TEACHERS

(Prerequisite: At least one full year of employed experience at some skilled trade or industrial technical occupation.)

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 the 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 COUSES

General Education	Credits
English	10
Mathematics	6
Economics	6
Rural Sociology	3
History (Including History 306)	6
Public Speaking	1
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	35
TOTAL CREDITS	140

CURRICULUM IN MECHANICAL ENGINEERING

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

FRESHMAN YEAR

(See page 106)

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	Electrical Engineering 308 (3-3) Electrical Machinery	4
Economics 403 (3-0) Principles of Economics	3	History 306 (3-0) American Government	3
Electrical Engineering 307 (3-3) Electrical Machinery	4	Mechanical Engineering 310 (0-3) Machine Shop	1
Mechanical Engineering 309 (0-3) Machine Shop	1	Mechanical Engineering 320 (5-0) Thermodynamics	5
Mechanical Engineering 313 (3-0) Engineering Mechanics	3	Mechanical Engineering 338 (2-3) Kinematics and Machine Design	3
Elective	3	Elective	3
	21		20

SENIOR YEAR

First Semester		Credit
Electrical Engineering 431 Engineering Administration	(2-0)	2
Mechanical Engineering 303 Machine Design	(2-3)	3
Mechanical Engineering 403 Engineering Laboratory	(1-3)	2
Mechanical Engineering 417 Power Engineering	(3-0)	3
Mechanical Engineering 419 Industrial Engineering	(3-0)	3
Mechanical Engineering 423 Industrial Administration	(3-0)	3
Elective		3
		19

Second Semester		Credit
English 401 Public Speaking	(0-2)	1
Mechanical Engineering 304 Machine Design	(2-3)	3
Mechanical Engineering 404 Engineering Laboratory	(1-3)	2
Mechanical Engineering 418 Power Engineering	(3-0)	3
Elective		3
[26]**Technical Elective**		7
		19

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

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

FOUR-YEAR CURRICULUM IN PETROLEUM ENGINEERING

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

FRESHMAN YEAR

(See page 106)

SOPHOMORE YEAR

Chemistry 207 Quantitative Analysis	(2-3)	3
Geology 201 General Geology	(3-0)	3
Geology 207 Mineralogy and Petrology	(3-4)	4
Mathematics 203 Calculus	(4-0)	4
Mechanical Engineering 309 Machine Shop	(0-3)	1
Military Science	(1-2)	1
Physics 203 General Physics	(4-3)	5
		21

Civil Engineering 201 Surveying	(3-4)	4
English 207 Report Writing and Corresp.	(2-0)	2
Geology 210 Historical Geology	(3-3)	4
Mathematics 204 Calculus	(4-0)	4
Petroleum Engineering 204 The Petroleum Industry	(2-0)	2
Military Science	(1-2)	1
Physics 204 General Physics	(4-3)	5
		22

JUNIOR YEAR

First Semester	Credit	Second Semester	Credit
Chemistry 206a (3-0) Organic Chemistry	3	**Chemistry 342a** (3-0) Physical Chemistry	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

Electrical Engineering 305 (3-3) Electrical Machinery	4	**English 401** (0-2) Public Speaking	1
Mechanical Engineering 403 (1-3) Engineering Laboratory	2	**Geology 404** (3-0) Geology of Petroleum	3
Mechanical Engineering 410 (3-0) Internal Comb. Engines:	3	**History 306** (3-0) American Government	3
Mechanical Engineering 440a (2-0) Phys. Metallography	2	**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 (3-3) Natural Gas and Gasoline	4	**Petroleum Engineering 402** (3-0) Oil Field Management	3
Elective	3	**Elective**	3
	21		18

FIVE-YEAR CURRICULUM IN PETROLEUM ENGINEERING

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

FRESHMAN YEAR

(See page 106)

SOPHOMORE YEAR

(See page 113)

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	**Mechanical Engineering 338** (2-3) Kinematics and Machine Design	3
Mechanical Engineering 212 (3-0) Engineering Mechanics	3	**Petroleum Engineering 304** (2-3) Petroleum Production Methods	3
Petroleum Engineering 303 (3-3) Petroleum Development	4	**Elective**	3
Elective	3	[28]**Technical Elective**	3
[28]**Technical Elective**	3		20
	20		

SENIOR YEAR

First Semester		Credit	Second Semester		Credit
Economics 403 Principles of Economics	(3-0)	3	**Civil Engineering 311** Hydraulics	(3-0)	3
Mechanical Engineering 313 Engineering Mechanics	(3-0)	3	**Civil Engineering 336** Hydraulics Laboratory	(0-2)	1
Mechanical Engineering 323 Thermodynamics	(4-0)	4	**English 210** Writing and Discussion	(2-0)	2
Petroleum Engineering 403 Petroleum Problems	(0-3)	1	**History 306** American Government	(3-0)	3
Petroleum Engineering 406 Natural Gas and Gasoline	(3-3)	4	**Petroleum Engineering 401** Oil Meas. and Transportation	(2-3)	3
Elective		3	**Petroleum Engineering 404** Petroleum Problems	(0-3)	1
[28]**Technical Elective**		2	**Elective**		3
		20	[28]**Technical Elective**		4
					20

FIFTH YEAR

Electrical Engineering 305 Electrical Machinery	(3-3)	4	**English 401** Public Speaking	(0-2)	1
English 307 Technical Writing	(2-0)	2	**Geology 404** Geology of Petroleum	(3-0)	3
Geology 312 Structural Geology	(3-4)	4	**Mechanical Engineering 404** Engineering Laboratory	(1-3)	2
Mechanical Engineering 303 Machine Design	(2-3)	3	**Mechanical Engineering 410** Internal Combustion Engines	(3-0)	3
Mechanical Engineering 403 Engineering Laboratory	(1-3)	2	**Mechanical Engineering 440a** Phys. Metallography	(2-0)	2
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

FIVE-YEAR CURRICULUM IN PETROLEUM ENGINEERING

(GEOLOGICAL OPTION)

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

FRESHMAN YEAR

(Same as for all Engineering courses)

SOPHOMORE YEAR

Chemistry 207 Quantitative Analysis	(2-3)	3	**Civil Engineering 201** Surveying	(3-4)	4
Geology 203 Mineralogy and Rock Study	(3-4)	4	**English 207** Report Writing and Corresp.	(2-0)	2
Mathematics 203 Calculus	(4-0)	4	**Geology 204** Mineralogy and Rock Study	(3-4)	4
English 203 Composition and Literature	(2-0)	2	**Mathematics 204** Calculus	(4-0)	4
Mechanical Engineering 309 Machine Shop	(0-3)	1	**Military Science**	(1-2)	1
Military Science	(1-2)	1	**Physics 204** General Physics	(4-3)	5
Physics 203 General Physics	(4-3)	5			20
		20			

JUNIOR YEAR

First Semester		Credit	Second Semester		Credit
Chemistry 206a Organic Chemistry	(3-0)	3	**Chemistry 342a** Physical Chemistry	(3-0)	3
Petroleum Engineering 204 Petroleum Industry	(2-0)	2	**Civil Engineering 305** Mechanics of Materials	(4-0)	4
Mechanical Engineering 212 Engineering Mechanics	(3-0)	3	**Civil Engineering 315** Materials Laboratory	(0-2)	1
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
[30]**Economics 403** Principles of Economics	(3-0)	3	**English 401** Public Speaking	(0-2)	1
			Elective		3
		20			21

SENIOR YEAR

Civil Engineering 311 Hydraulics	(3-0)	3	**Electrical Engineering 305** Electrical Machinery	(3-3)	4
Civil Engineering 336 Hydraulics Laboratory	(0-2)	1	**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	**Mechanical Engineering 307** Kinematics	(2-3)	3
Petroleum Engineering 303 Petroleum Development	(3-3)	4	**Petroleum Engineering 304** Petroleum Production Methods	(2-3)	3
Elective		3	**Elective**		3
		19			20

Geology 300s, Field Geology, Six Weeks, Credit 7.

FIFTH YEAR

Geology 405 Economic Geology	(4-0)	4	**Geology 406** Economic Geology	(4-0)	4
Mechanical Engineering 323 Thermodynamics	(4-0)	4	**History 306** American Government	(3-0)	3
Mechanical Engineering 403 Engineering Laboratory	(1-3)	2	**Mechanical Engineering 404** Engineering Laboratory	(1-3)	2
Mechanical Engineering 440a Physical Metallography	(2-0)	2	**Mechanical Engineering 410** Internal Combustion Engines	(3-0)	3
Petroleum Engineering 405 Equipment and Applications	(3-0)	3	**Petroleum Engineering 401** Oil Measurement and Transportation	(2-3)	3
Petroleum Engineering 406 Natural Gas and Gasoline	(3-3)	4	**Petroleum Engineering 402** Oil Field Management	(3-0)	3
		19			18

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

NOTE: The above five-year course contains all courses given in the four-year Petroleum Engineering course, and all of the geology courses given in the four-year Geology course.

FIVE-YEAR CURRICULUM IN PETROLEUM ENGINEERING AND MECHANICAL ENGINEERING

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

FRESHMAN YEAR

(Same as for all Engineering courses)

SOPHOMORE YEAR

First Semester		Credit	Second Semester		Credit
Chemistry 207 Quantitative Analysis	(2-3)	3	**Economics 403** Principles of Economics	(3-0)	3
Civil Engineering 201 Surveying	(3-4)	4	**English 207** Report Writing and Corresp.	(2-0)	2
English 203 Composition and Literature	(2-0)	2	**Mathematics 204** Calculus	(4-0)	4
Mathematics 203 Calculus	(4-0)	4	**Mechanical Engineering 202** Welding and Foundry	(0-3)	1
Mechanical Engineering 201 Welding and Foundry	(0-3)	1	**Mechanical Engineeering 212** Engineering Mechanics	(3-0)	3
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			19

JUNIOR YEAR

Chemistry 206a Organic Chemistry	(3-0)	3	**Chemistry 342a** Physical Chemistry	(3-0)	3
Civil Engineering 305 Mechanics of Materials	(4-0)	4	**Civil Engineering 315** Materials Laboratory	(0-2)	1
Geology 207 Mineralogy and Petrology	(3-4)	4	**Civil Engineering 311** Hydraulics	(3-0)	3
Geology 201 General Geology	(3-0)	3	**Civil Engineering 336** Hydraulics Laboratory	(0-2)	1
Mechanical Engineering 313 Engineering Mechanics	(3-0)	3	**Geology 210** Historical Geology	(3-3)	4
Elective		3	**History 306** American Government	(3-0)	3
		20	**Petroleum Engineering 204** The Petroleum Industry	(2-0)	2
			Elective		3
					20

SENIOR YEAR

Electrical Engineering 307 Electrical Machinery	(3-3)	4	**Electrical Engineering 308** Electrical Machinery	(3-3)	4
Geology 312 Structural Geology	(3-4)	4	**Geology 404** Petroleum Geology	(3-0)	3
Mechanical Engineering 309 Machine Shop	(0-3)	1	**Mechanical Engineering 310** Machine Shop	(0-3)	1
Mechanical Engineering 320 Thermodynamics	(5-0)	5	**Mechanical Engineering 338** Kinematics and Machine Design	(2-3)	3
Petroleum Engineering 303 Petroleum Development	(3-3)	4	**Mechanical Engineering 410** Internal Combustion Engines	(3-0)	3
Elective		3	**Petroleum Engineering 304** Petroleum Production	(2-3)	3
		21	**Elective**		3
					20

FIFTH YEAR

Mechanical Engineering 303 Machine Design	(2-3)	3	**Electrical Engineering 431** Engineering Administration	(2-0)	2
Mechanical Engineering 403 Engineering Laboratory	(1-3)	2	**English 401** Public Speaking	(0-2)	1
Mechanical Engineering 417 Power Engineering	(3-0)	3	**Mechanical Engineering 304** Machine Design	(2-3)	3
Mechanical Engineering 419 Industrial Engineering	(3-0)	3	**Mechanical Engineering 404** Engineering Laboratory	(1-3)	2
Mechanical Engineering 423 Industrial Administration	(3-0)	3	[31a]**Mechanical Engineering 407** Mechanical Refrigeration	(3-0)	3
Petroleum Engineering 405 Equipment and Application	(3-0)	3	**Mechanical Engineering 440** Physical Metallography	(2-3)	3
Petroleum Engineering 406 Natural Gas and Gasoline	(3-3)	4	**Petroleum Engineering 401** Oil Measurement and Transportation	(2-3)	3
		21	**Petroleum Engineering 402** Oil Field Management	(3-0)	3
					20

[31a]Mechanical Engineering 418 (Power Engineering) may be taken in place of this course.

CURRICULUM IN TEXTILE ENGINEERING

FRESHMAN YEAR

(See page 106)

SOPHOMORE YEAR

First Semester	Credit		Second Semester	Credit	
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 306** 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	[32]**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

SENIOR YEAR

Electrical Engineering 431 Engineering Administration	(2-0)	2	**Economics 311** Money and Banking	(3-0)	3
Mechanical Engineering 419 Industrial Engineering	(3-0)	3	**English 401** Public Speaking	(0-2)	1
Textile Engineering 401 Yarn Manufacture	(3-2)	4	**Textile Engineering 402** Yarn Manufacture	(2-3)	3
Textile Engineering 413 Cotton Classing	(1-3)	2	**Textile Engineering 414** Cotton Classing	(0-3)	1
Textile Engineering 415 Fabric Design	(0-3)	1	**Textile Engineering 416** Fabric Design	(1-3)	2
Textile Engineering 419 Weaving	(1-3)	2	**Textile Engineering 420** Weaving	(0-3)	1
Elective		5	[33]**Textile Engineering 422** History of Textile Industry	(3-0)	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.

First Semester		Credit
Accounting and Statistics 409 Survey of Accounting Principles	(3-0)	3
Architecture 315 Modern Architecture	(2-0)	2
Architecture 415 The Fine Arts	(2-0)	2
Biology 206 General Bacteriology	(2-4)	3
Economics 311 Money and Banking	(3-0)	3
English (Advanced)		
Genetics 405 Survey of Eugenics	(3-0)	3
Geology 201 General Geology	(3-0)	3
History 313 Latin American Nations to 1820	(3-0)	3
History 423 American Foreign Relations	(3-0)	3
Mathematics 305 Differential Equations	(2-0)	2
Modern Language French, German or Spanish	(3-0)	3
Psychology 207 Psychology	(3-0)	3
Rural Sociology 311 Social Psychology	(3-0)	3
Architecture 416 The Fine Arts	(2-0)	2

Second Semester		Credit
Biology 323 Systematic Bacteriology	(1-6)	3
Economics 318 Labor Problems	(3-0)	3
Economics 408 Corporation Finance	(3-0)	3
Economics 412 Public Finance and Taxation	(3-0)	3
English (Advanced)		
Geology 210 Historical Geology	(3-3)	4
History 314 Latin American Republics to 1937	(3-0)	3
History 322 Industrial History of U. S.	(3-0)	3
History 424 American Foreign Relations	(3-0)	3
Mathematics 202 Math. Theory of Investment	(3-0)	3
Mechanical Engineering 307 Kinematics	(2-3)	3
Modern Language French, German or Spanish	(3-0)	3
Municipal and Sanitary Engineering 408 Municipal Administration	(3-0)	3
Rural Sociology 312 General Sociology	(3-0)	3

[32]Offered in alternate years. Not offered in 1939-40.
[33]Offered in alternate years. Offered in 1939-40.

TWO-YEAR CURRICULUM IN COTTON MARKETING AND CLASSING

FIRST YEAR

Agricultural Economics 101 Agricultural Resources	(4-0)	4
Agricultural Economics 103 Economic History of Agriculture	(3-0)	3
English 103 Rhetoric and Composition	(3-0)	3
Mathematics 101 Algebra	(3-0)	3
Military Science	(1-2)	1
Textile Engineering 107 Cotton Classing	(2-5)	4
Physical Education 101	(0-2)	R
		18

Chemistry 106 General Chemistry	(3-3)	4
English 104 Rhetoric and Composition	(3-0)	3
History 322 Industrial History of U. S.	(3-0)	3
Mathematics 109 Agricultural Mathematics	(3-0)	3
Military Science	(1-2)	1
Textile Engineering 108 Cotton Classing	(2-5)	4
Physical Education 102	(0-2)	R
		18

SECOND YEAR

First Semester		Credit
Accounting and Statistics 201 Principles of Accounting	(3-3)	4
Economics 203 Principles of Economics	(3-0)	3
English 203 Composition and Literature	(2-0)	2
History 306 American Government	(3-0)	3
Military Science	(1-2)	1
Textile Engineering 205 Cotton Exchanges	(3-0)	3
Textile Engineering 211 Cotton Classing	(1-5)	3
		19

Second Semester		Credit
Accounting and Statistics 202 Principles of Accounting	(3-3)	4
Economics 204 Principles of Economics	(3-0)	3
Economics 316 Business Law	(3-0)	3
English 210 Writing and Discussion	(2-0)	2
Military Science	(1-2)	1
Textile Engineering 212 Cotton Classing	(1-5)	3
Textile Engineering 218 Foreign Cotton Markets	(3-0)	3
		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 course may be made up during the college year and summer sessions. The following pre-veterinary course is prescribed:

First Semester		Credit
Animal Husbandry 107 General Animal Husbandry	(2-4)	3
Biology 101 General Botany	(3-4)	4
Biology 107 Animal Biology	(2-4)	3
Chemistry 101 Inorganic Chemistry	(3-3)	4
English 103 Rhetoric and Composition	(3-0)	3
Military Science	(1-2)	1
Physical Education	(0-2)	R
		18

Second Semester		Credit
Biology 102 Morphology and Taxonomy of Seed Plants	(2-4)	3
Chemistry 102 Inorganic Chemistry	(3-3)	4
Dairy Husbandry 202 Dairying	(2-4)	3
English 104 Rhetoric and Composition	(3-0)	3
Military Science	(1-2)	1
Poultry Husbandry 201 Poultry Production	(2-2)	3
Physical Education 102	(0-2)	R
		17

CURRICULUM IN VETERINARY MEDICINE

FIRST YEAR

Chemistry 206 Organic Chemistry	(3-2)	4
English 203 Composition and Literature	(2-0)	2
Entomology 201 General Entomology	(2-2)	3
Military Science	(1-2)	1
Veterinary Anatomy 111 Veterinary Anatomy	(3-6)	5
Veterinary Physiology and Pharmacology 121 Veterinary Physiology	(2-0)	2
		17

English 207 Report Writing and Corresp.	(2-0)	2
Entomology 208 Animal Parasites	(2-2)	3
History 306 American Government	(3-0)	3
Military Science	(1-2)	1
Veterinary Anatomy 112 Veterinary Anatomy	(2-6)	4
Veterinary Physiology and Pharmacology 122 Veterinary Physiology	(2-3)	3
Elective		3
		19

SECOND YEAR

Biology 206 Bacteriology	(2-4)	3
Veterinary Anatomy 211 Veterinary Anatomy	(2-9)	5
Veterinary Anatomy 213 Veterinary Histology	(2-6)	4
Veterinary Physiology and Pharmacology 221 Veterinary Physiology	(3-6)	5
Elective		3
		20

Genetics 301 Genetics	(3-2)	4
Veterinary Anatomy 214 Veterinary Embryology	(2-4)	3
Veterinary Pathology 242 Veterinary General Pathology	(3-4)	4
Veterinary Physiology and Pharmacology 222 Veterinary Physiology	(3-6)	5
Elective		3
		19

THIRD YEAR

First Semester	Credit	Second Semester	Credit
Vet. Med. and Surgery 351.....(3-0) Veterinary Medicine	3	**Vet. Med and Surgery 352**.....(3-0) Veterinary Medicine	3
Vet. Med. and Surgery 361.....(3-0) Veterinary General Surgery	3	**Vet. Med. and Surgery 362**.....(3-0) Veterinary General Surgery	3
Vet. Med. and Surgery 371.....(0-6) Veterinary Clinics	2	**Vet. Med. and Surgery 372**.....(0-12) Veterinary Clinics	4
Veterinary Pathology 341.....(1-4) Veterinary Special Pathology	2	**Veterinary Pathology 342**.....(2-4) Veterinary Special Pathology	3
Veterinary Pathology 343.....(2-4) Veterinary Special Bacteriology	3	**Veterinary Physiology and Pharmacology 334**.....(3-3) Veterinary Pharmacology	4
Veterinary Physiology and Pharmacology 333.....(3-3) Veterinary Pharmacology	4	**Elective**.....	3
Elective.....	3		20
	20		

FOURTH YEAR

Animal Husbandry 409.....(3-3) Animal Nutrition	4	**English 401**.....(0-2) Public Speaking	1
Veterinary Hygienene 493.....(3-0) Infectious Diseases	3	**Veterinary Hygiene 492**.....(2-2) Food Hygiene	3
Vet. Med. and Surgery 451.....(3-0) Diseases of Small Animals	3	**Vet. Med. and Surgery 452**.....(2-0) Practice of Veterinary Medicine	2
Vet. Med. and Surgery 461.....(3-0) Veterinary Obstetrics	3	**Vet. Med. and Surgery 462**.....(3-4) Veterinary Operative Surgery	4
Vet. Med. and Surgery 471.....(0-6) Veterinary Clinics	2	**Vet. Med. and Surgery 472**.....(0-6) Veterinary Clinics	2
Veterinary Parasitology 481.....(2-3) Parasites of Domestic Animals	3	**Veterinary Parasitology 482**.....(1-3) Parasites of Domestic Animals	2
Veterinary Pathology 441.....(2-2) Veterinary Immunology and Serum Therapy	3	**Veterinary Pathology 444**.....(1-4) Laboratory Diagnosis	2
	21	**Veterinary Pathology 446**.....(2-2) Poultry Pathology	3
		Veterinary Physiology and Pharmacology 432.....(1-4) Veterinary Toxicology	2
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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.

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DEPARTMENT OF ACCOUNTING AND STATISTICS

Professor Leland, Professor Hamilton, Associate Professor Weinke, Assistant Professor W. M. Simpson, Instructors Dulan, [1]Stubbs, [2]Rushing

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 to 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, correlation. Prerequisite: Mathematics 101.

310. Personal Budgeting. (2-0). Credit 2. II
Personal and family accounts; budgets, budgetary control; records and budget procedure for purchasing, borrowing, and investing; standards of living and life planning as affected by income.

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 economic 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.

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[1]On leave, Second Semester 1938-39.
[2]Appointed Feb. 1, 1939.

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 303, 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.
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.
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.
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.
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, Professors Hunt, Schlesselman, Associate Professors Paine, Arnold, Assistant Professor Hanks, Instructors Cherry, Denhardt, Lund, Kimball

101. Agricultural Resources. (4-0). Credit 4. I, II
A background course for students of agriculture, stressing the causal 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 economic history of American Agriculture and its European background; 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. Agriculture and Industries of North America. (3-0). Credit 3. I
The natural regions of North America; relationship between natural environment and the agriculture, industries and commerce of those areas.

305. Agriculture and Commerce of South America. (3-0). Credit 3. I
Agriculture and industries of South America, with special attention to commercial relations between that continent and the United States.

307. Advertising. (3-0). Credit 3. I
A basic course covering the fundamental theory, principles, and applications of advertising in business and agriculture.

310. Credit and Collections. (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). Cerdit 3. I, II
A general introductory course covering the principles, practices and problems involved in the marketing of agricultural commodities.

321. Farm and Ranch Records and Accounts. (2-2). Credit 3. I, II
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.

400S. Field Studies. (0-18). Credit 6. S
A summer travel course to selected regions for the purpose of making first hand observations and studies of land utilization problems; agricultural markets and business organizations. Particular attention to interregional relationships. Prerequisite: Approval of Head of Department.

410. Transportation. (3-0). Credit 3. II
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. Principles and Practices of Cooperation. (3-0). Credit 3. I
Analysis of the past and present practices and problems of cooperatives in the United States and foreign countries, with major attention to farmers' cooperative marketing and purchasing activities. Prerequisite: Agricultural Economics 314.

420. Consumption and Market Analysis. (3-0). Credit 3. II
Nature of consumer demand; private and public policies relative to consumption; methods of conducting marketing surveys and the use of findings by concerns handling agricultural or industrial products. Prerequisite: Agricultural Economics 425.

421. Principles of Farm and Ranch 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. Conservation of Natural Resources. (3-0). Credit 3. II
A general survey of the economic problems of land with emphasis on conservation. 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. Farm and Ranch Organization and Operation. (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.

438. World Trade in Relation to Agriculture. (3-0). Credit 3. II
Survey of foreign trade in agricultural products, emphasizing current international trade and exchange problems in their relation to American agriculture. Prerequisite: Economics 203, 204, or 403.

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; cost 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.
An extensive study of problems involved in developing state and national policies for the proper utilization of our land resources. Prerequisite: Agricultural Economics 423.

504. Historical Development of Agricultural Economics. (4-0). Credit 4.
Agricultural Economics defined and described; origin and development of agricultural economics; evolution of ideas regarding economic problems of agriculture; modern concepts in agricultural economics; relation of agricultural economics to other fields. Prerequisite: Agricultural Economics 512 and 429.

511. Farm Management Surveys. (2-4). Credit 3.
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.
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.
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.
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.
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 and Problems. (2-6). Credit 4 each semester.
Research method and procedure in agricultural economics. Individual research on approved problems. Prerequisite: Approval of Head of Department.

DEPARTMENT OF AGRICULTURAL EDUCATION

Professor [3]Alexander, Professor [4]H. Ross, Associate Professor Henderson, Assistant Professors Orchard, 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.

410. Methods in Adult Agricultural Education. (2-0). Credit 2. S
Methods to use in developing understanding and ability on the part of adult farm people to adopt improved agricultural practices.

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 technical vocational agriculture.

504. Special Methods in Forestry. Credit 4. S
A study of the methods of teaching the problems, practices and economics of forestry as related to the timberlands of East Texas, including general forestry facts with local, state and national background; study of tree growth, values, and identification; measurements used in forestry; forest management in growing timber as a crop; marketing, manufacture and utilization of forest products; forest protection from man caused and natural injuries; nursery and planting methods and practices; wood preservation.

505. Supervised Practice. (4-0). Credit 4.
An advanced study of supervised practice in vocational agriculture.

507. Future Farmer Activities. (2-0). Credit 2.
Methods of conducting future farmer activities of statewide importance.

508. Promotional Activities in Vocational Agriculture. (2-0). Credit 2.
Principles of news writing, plans for collective exhibits, instructional booths, fairs and contests. Open only to teachers of vocational agriculture.

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[3]On leave, 1938-39.
[4]Acting Head of Department, 1938-39.

509. Part-Time Classes. (2-0). Credit 2.
Methods of organizing and conducting part time classes in vocational agriculture.

510. Evening Schools. (2-0). Credit 2.
Methods of organizing and conducting evening schools in vocational agriculture on a participating basis.

511. Evening School Problems. (2-0). Credit 2.
Supervision of practice work, determining course content, follow-up work, setting up publicity programs, evaluating improved practices resulting from evening school instruction.

512. Agricultural Outlook Material. (2-0). Credit 2.
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.
Problems of organization, administration and supervision of vocational agriculture, experiment station and extension work.

514. Research and Thesis Problems. (2-0). Credit 2.

DEPARTMENT OF AGRICULTURAL ENGINEERING

Professor Scoates, Professor F. R. Jones, Associate Professors Thurmond, Montfort, Assistant Professor Christy, Instructor Peach

201. Farm Machinery. (2-2). Credit 3. I, II
Adaptability, selection, economic utilization, and general construction, operation, and adjustment of tillage, seeding, cultivating, harvesting and miscellaneous kinds of mechanical farm equipment.

203. Farm Motors. (2-2). Credit 3. I
Sources of farm power; adaptability and economic utilization of various kinds of power for farm work; construction, operation, care and repair of gas engines and tractors.

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.

208. Farm Machinery. (3-3). Credit 4. II
Selection and economic application as well as the design, construction, operation, adjustment, care, and repair of all types of farm machinery. Prerequisite: Physics 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.

323. Gas Engines. (2-2). Credit 3. I
Sources of farm power and their economic application. Theory and development of the internal combustion engine. Design, construction, operation, and adjustment of various types of stationary internal combustion engines. Prerequisite: Physics 203, 204.

324. Automotive Machinery. (3-3). Credit 4. II
Construction, operation, care and repair of tractors, automobiles, and trucks. Prerequisite: Agricultural Engineering 323.

410. Irrigation. (1-3). Credit 2. I
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.

413. Farm Buildings. (2-3). Credit 3. I
Design and location of farm buildings; building materials; construction, arrangement. Prerequisite: Civil Engineering 305.

418. Farm Home Utilities. (2-3). Credit 3. 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. Prerequisite: Agricultural Engineering 413.

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. Prerequisite: Senior Classification.

428. Conservation and Reclamation Engineering. (3-4). Credit 4. II
Principles of engineering practice in Soil Conservation as applied to runoff, terrace design, terrace outlet design, terrace construction, outlet construction and practices of conservation affecting engineering practice. 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. Prerequisite: Civil Engineering 201, 311.

430. Rural Electrification. (2-3). Credit 3. II
Economic application and utilization of electric power on farms and in rural communities.

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 208.

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.
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. Prerequisite: Agricultural Engineering 323 and 324.

511. Advanced Farm Shop. (3-3). Credit 4.
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 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, Professors L. G. Jones, Mogford, Associate Professors Easley, Thorne, Assistant Professor R. C. Potts, Instructors L. M. Thompson, Chapman, Hampton

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. Prerequisite: Agronomy 105, Biology 101.

314. Cereal Crops. (3-2). Credit 4. I
The classification, production, harvesting and utilization of corn, wheat, oats, barley, rye, rice, grain sorghum, and flax seed; together with a study of the various species and varieties of the crops mentioned. Prerequisite: Agronomy 105, Biology 101.

315. Cotton Production. (2-2). Credit 3. I, II
Cotton production, including species, varieties, improvement, adaptation, fertilization, tillage practices, harvesting, insects and diseases. Flax, hemp, and other miscellaneous fiber crops are treated briefly. Prerequisite: Agronomy 105, Biology 101.

316. Commercial Grading of Farm Crops. (1-4). Credit 2. I
Commercial grading of wheat, oats, corn, rice, rye, barley, grain sorghums, and soybeans, according to federal standards. Selection of good planting seed; preparation of field crop seeds for the quality market trade; and field crop exhibits for county, district, and state fairs. Prerequisite: Agronomy 105.

318. Agrostology. (1-4). Credit 2. II
A fundamental study of grasses, especially those of economic importance in Texas. A study of the characteristics of the various genera and species of grasses, their identification, distribution, propagation, improvement and management with particular reference to their use and value in Texas pastures. Prerequisite: Agronomy 105, Biology 101, and Junior Classification.

410. Soil Mapping. (0-3). Credit 1. II
Identification, mapping and description of soil types; origin and classification, soil areas, and types in Texas. Prerequisite: Agronomy 301, and 418 or registered in 418.

413. Soil and Crop Problems. (3-0). Credit 3. I, II
Special problems dealing with the management and utilization of distinctive types of soils and soil condition and a detailed consideration of crop management problems under varying soil and climatic conditions in Texas. Prerequisite: Agronomy 105, 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. Prerequisite: Agronomy 105, 301, and senior standing.

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. Prerequisite: Junior Standing.

418. Soil Conservation. (3-3). Credit 4. I, 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. Prerequisite: Agronomy 301, 315.

422. Soil Fertility. (3-4). Credit 4. II
Theories of soil fertility and factors affecting the crop producing power of soils. The occurrence and availability of plant nutrients. Methods of soil investigation with particular emphasis on soil colloids, base exchange, the biological processes in soil, and field experiments. Prerequisite: Agronomy 301, Biology 206, and Chemistry 212 and 214 or their equivalent.

422a. Soil Fertility. (3-0). Credit 3. II
A modification of 422. Graduate students may be permitted to take this course with the special permission of the Head of the Agronomy Department. This course is not open for undergraduates.

424. Studies of Quality in Cotton. (2-2). Credit 3. II
Production factors affecting cotton quality including length, strength and uniformity as caused by methods of production, soil types, plant growth conditions, one variety communities, fiber properties, harvesting methods, weather damage, preparation for market, ginning effects, utilization by industry, value of different length of fiber produced, and quality of finished product. On completion of the foregoing a comparison is made of the characteristics of various fibers, their competition and possibilities. Laboratory study covers staple length measurements, fiber arrays, bundle wrapping, strength testing, and microscopical fiber structure. Prerequisite: Agronomy 315.

425. Farm Appraisal. (2-3). Credit 3. I
A study of soil, farm crops, type of farming areas, and the location of the farm in relation to farm appraising. Methods of arriving at farm values, the procedure of gathering data, and the preparation of appraisal reports are discussed. Lectures on certain phases of the course are given by specialists in farm management, agricultural economics, and related subjects. Laboratory work consists of the actual appraisal of various types of farms. Prerequisite: Agronomy 301, Agricultural Economics 321 or 421, Senior Classification.

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. Advanced Soils. (3-0). Credit 3.
An advanced study of soil classification, formation, processes and profile characteristics. The physical and chemical properties of clay and humus.

506. Advanced Soil Technology. (3-0). Credit 3.
A study of the more recent and noteworthy investigations pertaining to the physical, chemical and biological properties of soil.

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.

511, 512. Special Problems. Credit 1 to 3 each semester.
Laboratory work on special problems related to soils. Prerequisite: Agronomy 422 or equivalent.

DEPARTMENT OF ANIMAL HUSBANDRY

Professor D. W. Williams, Professors Mackey, Pearson, Associate Professor Schuessler, Assistant Professor Dahlberg, Instructors Murphey, von Roeder, Jr., L. A. Miller, Melass

107. General Animal Husbandry. (2-4). Credit 3. I, II

An introductory survey course intended to acquaint the student with the importance of livestock and livestock farming in the United States and Texas. General factors influencing efficiency in feeding, market value, breeding, health and adaptability of various species to geographical and climatic regions are studied. The course is outlined primarily to develop in the student an appreciation of improved livestock. Laboratory consists of selecting and judging of the various breeds and market classes.

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 value market animals; marketing machinery of the livestock 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; manural 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.

310. Meats Judging and Identification. (1-3). Credit 2. II

A detailed consideration of the factors involved in the selection of carcasses and wholesale cuts of beef, pork, and lamb. A thorough study of the identification of retail cuts coupled with recommended methods of retailing and cooking. Prerequisite: Animal Husbandry 307.

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.

407. Beef Cattle Production Laboratory. (0-3). Credit 1. II

Practical phases of beef cattle production; fitting; showing; feeding; classifying and grading, culling; pasture improvement; disease control. Prerequisite: Must be taking or have had A. H. 406. Required of A. H. majors who take A. H. 406.

409. Animal Nutrition and Live Stock Feeding. (3-3). Credit 4. 1

A modification of course 303 with a study of the practical feeding of horses, dairy cattle, beef cattle, sheep, and swine.

410. Sheep and Angora Goat Production. (3-0). 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.

411. Sheep Production Laboratory. (0-3). Credit 1. II
Practical phases of sheep production; fitting; feeding; shearing; showing and marketing. Prerequisite: Must be taking or have had A. H. 410. Required of A. H. majors who take A. H. 410.

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.

414. Horse Production Laboratory. (0-3). Credit 1. I
Practical phases of horse production; training; grooming; feeding; handling stallions; shoeing; fitting and showing. Prerequisite: Must be taking or have had A. H. 413. Required of A. H. majors who take A. H. 413.

415. Swine Production Laboratory. (0-3). Credit 1. II
Practical phases of swine production; fitting; showing; feeding; classifying and marketing; sanitation control. Prerequisite: Must be taking or have had A. H. 412. Required of A. H. majors who take A. H. 412.

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 the 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.

427, 428. Seminar. (1-0). Credit 1 each semester.

429. Advanced Sheep, Wool, and Mohair Studies. (2-2). Credit 3. I
A continuation of courses 410 and 418. Prerequisite: Animal Husbandry 410 and 418.

FOR GRADUATES

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.

511. Advanced Animal Nutrition. (3-0). Credit 3.
The occurrence of proteins, lipide, and carbohydrates in feeds and body tissues, their function in nutrition and their intermediary metabolism. Prerequisite: Elementary organic and analytical chemistry.

512. Advanced Animal Nutrition. (0-3). Credit 1.
A laboratory course designed to familiarize the student with the application of chemical and biological methods to the solution of fundamental problems of nutrition. Must be preceded or accompanied by course 511.

513. Advanced Animal Nutrition. (2-0). Credit 2.
The role of vitamins and minerals in animal nutrition, and their occurrence in feeds and animal tissues; energy metabolism. Prerequisite: Elementary organic and analytical chemistry.

514. Advanced Animal Nutrition. (0-3). Credit 1.
A continuation of course 512. Must be preceded or accompanied by course 513.

515. Advanced Animal Nutrition. (0-3). Credit 1.
A laboratory course involving the management, preparation of purified rations, and the production and cure of nutritional diseases. Must be taken simultaneously with or preceded by 513 and 514.

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. Credit 1 to 4 each semester.
Research problems in mammalian genetics and reproductive physiology, available as thesis material, to students majoring in animal husbandry, biology, genetics, veterinary physiology, or other related departments. 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 of 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.

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, Associate Professor Cash, Assistant Professor Zisman, Instructor Miller

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. Intermediate 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 steel frames in building construction; beams and girders, columns and footings; roof trusses. 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 313, or Civil Engineering 305.

418S. Fine Arts of Mexico. Credit 3. S.

419S. Decorative Architectural Details. Credit 3. S.

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. Design and Construction. Credit 2 to 5 each semester.
Intensive study by means of criticisms, consultations, and practical applications of the theory and practice in the design and construction of buildings and groups of buildings.

503, 504. Design and Construction. Credit 2 to 5 each semester.
A continuation of courses 501, 502.

511, 512. History and Archaeology. (2-0). Credit 2 each semester.
Individual problems of study and research in the field of American Architecture and Archaeology.

DEPARTMENT OF BIOLOGY

Professor Doak, Professor Emeritus Ball, Professor Reeves, Associate Professor LaMotte, Assistant Professors Gibbons, Talley, Hopkins, Instructors [5]Evans, Brown, [6]Leonard, Schipper, Brewster, [7]Bain

BOTANY

101. General Botany of Seed Plants. (3-4). Credit 4. I, II
The seed plant as a living unit; external and internal structures in relation to life processes; reproduction and life history of Angiosperms.

102. Taxonomy of Flowering Plants. (2-4). Credit 3. II
Designed to give training in the identification of flowering plants; stress on pasture and poisonous plants. Prerequisite: Biology 101 or 111, 112.

205. Survey of the Plant Kingdom. (2-4). Credit 3. I
Emphasis on biological principles of reproduction, alternation of generations, embryo development, and evolution. Prerequisite: Biology 101 or 111, 112. Alternate years, offered 1940-41.

313, 314. Plant Physiology. (2-4). Credit 3 each semester. I, II
Survey of the physiology of the green plant with special emphasis on nutrition, synthesis, storage, growth, and reproduction. Prerequisite: Biology 101 or 111, 112, and Chemistry 102.

346. Systematic Botany. (1-5). Credit 3. II
The principles of identification and classification of seed plants. Prerequisite: Biology 101.

416. Plant Pathology. (2-4). Credit 3. II
An introduction to the fundamental principles of plant pathology; diagnosis, cause and control. Prerequisite: Biology 101 or 111, 112 and 206.

417, 418. Seminar in Botany. (1-0). Credit 1 each semester.
Alternate years, Offered 1940-41.

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[5]On leave, 1938-39.
[6]Resigned, January 31, 1939.
[7]Graduate Assistant until Jan. 1, 1939. Appointed Instructor Jan. 1, 1939.

GENERAL BIOLOGY

111, 112. General Biology. (2-4). Credit 3 each semester.
Biological types and principles; interdependence of living things. 111 prerequisite to 112.

ZOOLOGY

105, 106. General Zoology. (2-4). Credit 3 each semester.
Classification, morphology, and physiology of representatives of the various phyla of animals. 105 prerequisite to 106.

107. Animal Biology. (2-4). Credit 3. I, II
Structure, physiology, and development of animals; emphasis on the biology of verterbrates.

217, 218. Comparative Vertebrate Anatomy. (2-4). Credit 3 each semester.
Comparative anatomy of typical chordates; progressive development of organs and organ-systems. Prerequisite: Biology 105, 106.

341, 342. General Physiology. (3-4). Credit 4 each semester.
Prerequisite: Biology 105, 106, or 111, 112.
Course 341 open to students in Physical Education.
(See Veterinary Physiology and Pharmacology 341, 342).

343. Histology. (2-4). Credit 3. I
Microscopic study of mamalian tissues; histological technique. Prerequisite: Biology 105, 106.

344. Embryology. (2-4). Credit 3. II
Introduction to vertebrate embryology; general and comparative, emphasis on early development of frog, chick, and pig. Prerequisite: Biology 105, 106.

419, 420. Seminar in Zoology. (1-0). Credit 1 each semester.
Recent advances. For graduates and advanced undergraduate majors in zoology.

BACTERIOLOGY

206. Introductory Bacteriology. (2-4). Credit 3. I, II
Nature and relation of bacteria to agriculture, industry, sanitation, and health of man, animals, and plants. Prerequisite: Biology 101 or 111-112.

323. Systematic Bacteriology. (1-6). Credit 3. I
Relation of bacteria to other microorganisms and to each other. Methods of isolation, identification, and differentiation. Prerequisite: Biology 206.

324. Water and Sewage Microbiology. (1-6). Credit 3. II
Microorganisms in water and their significance; role of microorganisms in sewage purification; pathogenic microorganisms transmitted by water and sewage. Prerequisite: Biology 206.
(Courses in bacteriology are offered in other departments. See D. H. 320, 322, and V. Path. 343, 441.)

FOR GRADUATES

501. Plant Anatomy and Morphological Technique. (2-6). Credit 4.
Anatomy and evolution of the plant body; techniques and methods in morphological research. Prerequisite: 6 hours of Botany.

502. Advanced Plant Morphology. (2-6). Credit 4.
Comparative morphology of plants with emphasis on vascular forms. Prerequisite: Biology 501 or equivalent.

503. Advanced Vertebrate Zoology. (2-6). Credit 4.
Phylogeny of vertebrates based on comparative anatomy, histology, and embryology.

504. Advanced Embryology. (2-6). Credit 4.
Comparative and experimental studies of the mechanics of embryonic development.

505, 506. Advanced Bacteriology. (2-6). Credit 4 each semester.
Advanced methods of bacteriological analyses.

509. Plant Physiological Methods and Materials. (2-6). Credit 4.
Methods employed in the various types of physiological investigations and the interpretation of results obtained by them. Prerequisite: Biology 313-314 or equivalent.

510. Plant Physiological Topics. (2-6). Credit 4.
Special topics in plant physiology, including the history and recent developments of currently active phases of the field. The laboratory work consists of chosen or assigned minor projects. Prerequisite: Biology 509.

511. Microchemical Technique. (2-6). Credit 4.
A standard methods course. Prerequisite: Organic or agricultural chemistry.

512. Biochemistry of Plants and Plant Products. (2-6). Credit 4.
The application of biochemical techniques to plants of economic importance. The plants and processes considered will depend upon the demand of the group served. Prerequisite: Biology 511 or equivalent.

513. Advanced Plant Pathology. (2-6). Credit 4.
Designed for the student desiring more detailed information on the diseases of specific crop plants. Prerequisite: Biology 416 or equivalent.

514. Plant Disease Control. (2-6). Credit 4.
A comprehensive study of the principles of plant disease control. Prerequisite: Biology 416.

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. Advanced Invertebrate Zoology. (2-6). Credit 4.
Morphology, taxonomy, biology, and phylogeny of invertebrate animals. Prerequisite: Biology 105, 106 or equivalent.

518. Animal Parasitology. (2-6). Credit 4.
Study of Parasitic worms and protozoa; laboratory methods in parasitology. Prerequisite: Biology 105, 106, Biology 517 or equivalent.

519, 520. Advanced Systematic Botany. (2-6). Credit 4 each semester.
Classification and identification of Spermatophytes with emphasis on the difficult families. Independent credit will be allowed for the terms, which may be taken in reverse order. Prerequisite: Approval of instructor. Professor Reeves.

521, 522. Research. Credit 1 to 4 each semester.
Problems in the various phases of plant and animal science; subject to approval by head of department.

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, W. M. Potts, Lindsay, Associate Professors Bishop, Middleton, Assistant Professors Koenig, B. C. Jones, Harter, Harrington, Samuelson, Harris, Tanzer, Instructors Snuggs, Eads, Bremner, Dooley, Garretson, Holland, Kelly, F. M. Smith, Welge

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.

106. General Chemistry. (3-3). Credit 4. II

A survey course in Chemistry for students needing it as a cultural subject and not as a basis for advanced work.

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 analyses 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.

206a. Organic Chemistry. (3-0). Credit 3. I

A modification of chemistry 206.

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 application 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.

216. 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.

218. Quantitative Chemistry. (2-6). Credit 4. II
A course in elementary quantitative analysis for pre-medical students.

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.)

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 216 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: Chemistry 323.

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 216.

342a. Physical Chemistry. (3-0). Credit 3. II
A modification of chemistry 342.

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.

448. Electrochemistry. (2-2). Credit 3. II
A study of the theory of galvanic and electrolytic cells and their applications. Prerequisite: Chemistry 324.

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: Chemistry 324.

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. The chemical industries most highly developed in this state are inspected from time to time.

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 305.

305. Industrial Stoichiometry. (3-0). Credit 3. I

Interpretation and correlation of laboratory quantitative analyses with industrial data, emphasizing the quantity relationships of materials and energies. Prerequisite: Chemical Engineering 400s.

400s. Industrial Analysis. Second term summer following sophomore year. Credit 4. S

Lectures, recitations and conferences dealing with technical methods of analysis, both rapid and exact. Before beginning an anlysis 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: Chemistry 216.

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 therefrom; 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.

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. (2-6). 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.

428. Industrial Chemical Processes and Relationships. (3-0). Credit 3. II
A study of representative chemical manufacturing processes and their relationships. 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, Sandstedt, Associate Professors J. A. Orr, Jakkula, Assistant Professor Wright, Instructors Benson, Sellner, Legatski

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 measurement and meridian determination, 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 201.

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. I, 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. Structural Analysis. (3-0). Credit 3. I
The study and evaluation of loads on structures; graphical and algebraic determination of reactions on structures; graphical and algebraic determination of dead and live load stresses in roof trusses, bridge trusses with simple panels, mill bents, and three-hinged arches used as roof trusses. Prerequisite: Mechanical Engineering 212 and Civil Engineering 305 or registration therein.

346. Structural Design. (3-3). Credit 4. II
The theory and practice of the design of tension members, compression members, members subject to direct stress and bending, beams, girders; riveted, bolted, and welded connections. Practice period devoted to the design of structural members of steel and timber in accordance with current specifications; complete design of simple highway or railway girder bridge. Prerequisite: Civil Engineering 345, 347.

347. Structural Drafting. (0-3). Credit 1. I
Practice in the detailing of structural members and joints.

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. II
Comparison of engineering plants or projects on the basis of first cost; ultimate economy comparisons involving depreciation, operating expenses, etc.; accounting records and cost records; estimating costs. Prerequisite: Junior classification in engineering.

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; form work; geology of soils; soil properties and tests; stress distribution in soils; bearing capacity of soils; bearing capacity of piles; settlement of structures; types of foundation for structures; 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. (2-3). Credit 3. I
Analysis of bridges with sub-divided panels; with double web systems; three-hinged arch bridges; cantilever bridges; the causes of secondary stresses; the reduction of secondary stresses by proper attention to design; the calculation of truss deflections by algebraic and graphical methods; discussion of the economics of bridge types and data needed for preliminary design and estimates. Practice period devoted to the design of a low-truss highway bridge, with necessary working drawings to conform with the specifications of the Texas Highway Department. Prerequisite: Civil Engineering 346.

468. Statically Indeterminate Structures. (2-3). Credit 3. II
Study of methods for finding deflections of structures, including the moment-area, conjugate beam, Maxwell-Mohr, Castigliano's, and slope deflection methods; application of these methods to the solution of the simpler statically indeterminate problems; solution of highly indeterminate structures by methods of successive approximation. Practice period devoted to the solution of problems by the preceding methods. Prerequisite: Civil Engineering 305 and Civil Engineering 345, or equivalent.

469. Steel Building Structures. (2-3). Credit 3. I
Roof loads, roofing, and roof construction; study of buildings of the mill type, including the design of crane runways, columns loaded at different elevations, and column bases; buildings of the office type, including the design of beams, girders, columns, and a discussion of floor construction; beam deflections by means of the conjugate beam; continuous beams; analysis of wind stresses in tall buildings by approximate methods; design of wind-bracing; brief study of bins, tanks, and towers. The practice consists in making the design, erection diagram, and typical detail drawing of 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. Advanced Structural Analysis. (3-3). Credit 4.
Review of methods of finding the deflection of structures including the double-integration, moment-area, conjugate beam, Maxwell-Mohr, Castigliano's, trigonometric series and slope-deflection methods; application of the preceding methods to a variety of problems such as the deflection of beams and trusses, solution of statically-indeterminate beams, trusses, and simple frames with emphasis on selection of the most advantageous method; study of the two-hinged braced and solid-rib arch, the latter by the method of elastic weights.

532. Advanced Structural Design. (2-6). Credit 4.
A continuation of Civil Engineering 531. Analysis of the fixed reinforced concrete arch; solution of simultaneous equations by Seidal's method of iteration; analysis of rigid frames by methods of successive approximation and slope-deflection; secondary stresses in bridges; design of statically indeterminate structures. Practice includes complete design of a fixed concrete arch and solution of secondary stresses in a truss.

533. Advanced Mechanics of Materials. (4-0). Credit 4.
Principal stresses and theories of failure of elastic action; stress concentration; unsymmetrical bending; mechanical methods for study of internal stresses; special problems such as bending in flat plates, buckling of webs, bending in curved beams and hoeks.

535, 536. City Street Pavements. (2-0). Credit 2 each semester.
Financing municipal street improvements, methods of assessment, Texas paving laws. Pavement types, costs, designs, and traffic characteristics. Street grades, width, intersections and appurtenances. Special problems.

537, 538. Advanced Materials of Construction. (1-3). Credit 2 each semester.
Sub-grade soil studies and laboratory investigations of engineering materials. Special problems.

541, 542. Research. Credit 2 to 6.
Technical research; projects subject to approval of head of department.

544. Structural Model Analysis. (1-3). Credit 2.
The mechanical analysis of stresses in statically indeterminate structures by means of models. The use of the Beggs apparatus in analyzing complicated structures will be given particular attention. Practice period will be devoted to the making and testing of structural models.

546. Photoelasticity. (1-3). Credit 2.
An introduction to the theory and technique of stress-determination in two-dimensional objects by means of polarized light. Practice period devoted to the making and testing of models.

547. Soil Mechanics. (3-3). Credit 4.
Study of literature on soil mechanics; theory of settlement; theory of failure; elastic theory of stress distribution; methods of computing stresses; simple tests of soil samples.

DEPARTMENT OF DAIRY HUSBANDRY

Professor Shepardson, Professor Darnell, Associate Professor Moore, Instructor Freeman

202. Dairying. (2-4). Credit 3. I, II
Dairying in its relation to agriculture 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 of 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 Husbandry 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. (3-2). Credit 4. I
Mixing and freezing of ice cream, sherbets and ices, and the physical and chemical principles involved; equipment used in the ice cream plant; flavoring materials; merchandising. Prerequisite: Dairy Husbandry 202.

408. Cheese Making. (2-3). Credit 3. II
A study of the manufacture, ripening and marketing of the various types of cheese. Prerequisite: Dairy Husbandry 202.

409. Advanced Study of Dairy Breeds. (1-4). Credit 2. I
Historical study of prominent dairy families and individuals of the major dairy breeds. Prerequisite: Dairy Husbandry 202, Genetics 301.

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; 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.

420. Dairy Management. (3-2). Credit 4. II
A combination of Dairy Husbandry 417 and 418 for Agricultural Education students. Prerequisite: Dairy Husbandry 202, Animal Husbandry 303 or 409, and Genetics 301.

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, Professors Gettys, Adams, Associate Professor Nutter, Instructors Elkins, Chalk, Scheldrup

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, II

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. I, II

The nature and scope of law, contracts, sales, agency, torts, bailments and carriers, partnerships. Supplementary studies of Texas laws and of court decisions. Prerequisite: Sophomore standing.

317. Business Law. (3-0). Credit 3. II

The nature and scope of law, business crimes, employer and employee, Texas Workmen's Compensation Act, landlord and tenant, real and personal property, negotiable instruments. Prerequisite: Economics 316.

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. I

The common forms of business organizations with special attention to corporations; advantages and disadvantages of incorporation, formation and organization of corporations, capital stock and bonds, legal status of corporations, bankruptcy and reorganization. Prerequisite: Economics 403 or its equivalent.

409. Foreign Trade and Exchange. (3-0). Credit 3. I

The principles of international commerce, methods of conducting foreign trade, and the theory and practice of foreign exchange. Prerequisite: Economics 403 or its equivalent.

412. Public Finance and Taxation. (3-0). Credit 3. 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; investment institutions. Prerequisite: Economics 403 or 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 investigations 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. II

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.

425. Insurance Law. (3-0). Credit 3. I

Study of methods of administrative control by the state. Distinguishing features of the insurance contract. Insurable interests in life and property insurance. The common law doctrine of warranty and its modification by statute and judicial interpretation. Representations and tests of materiality to the risk. Prerequisite: Economics 315, 316.

426. Real Estate Titles and Conveyances. (3-0). Credit 3. II

The ownership and transfer of titles to real property. Special attention is given the economic and legal problems with oil and gas leases. Also a study is made of problems associated with urban realty. Prerequisite: Economics 316, and 403 or its equivalent.

427. International Economic Policies. (3-0). Credit 3. I

A critical examination of governmental policies toward international trade both at home and abroad. An effort is made to view these policies in the light of accepted economic doctrines with regard to international trade. Prerequisite: Economics 409.

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.

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.

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.

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.

401, 402. Contemporary Problems. (1-0). Credit 1 each semester.

Lecture and discussion of current and contemporary problems. Prerequisite: Senior classification.

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.

427. Administration of Pupil Personnel. (3-0). Credit 3. II
A study of the teacher's responsibilities in pupil adjustments, case studies, clinical procedures, and remedial measures.

428. Junior High School Methods. (3-0). Credit 3. II
This course will introduce the student to the modern practices of teaching in a 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.
The rural school problem in the United States, including problems in related fields.

502. County School Administration. (3-0). Credit 3.
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.
The origin and development of public schools in Texas.

507. Programs and Procedures in Supervision. (2-0). Credit 2.
Types of supervision and the organization of supervisory programs.

508. Administration of Local School Finance. (2-0). Credit 2.
A study of school funds on the local school level; sources, budgeting, systems of accounting as related to school efficiency.

510. Pupil Accounting. (2-0). Credit 2.
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; marking systems.

511. The Newer Techniques in Teaching. (4-0). Credit 4.
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.
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.
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.
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.
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.
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, Instructors Goodheart, Grandi, Green

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 characteristics 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. When this course is to be used to satisfy part of the requirements of Signal Corps Military Science it must be taken at the same time as Military Science 306. Prerequisite: Physics 202, or 204, or 208, and Electrical Engineering 201.

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 208 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 315 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 and 318. 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 and 318, 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. Prerequisite: Electrical Engineering 315.

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. Prerequisite: Electrical Engineering 305, or 308, or 315.

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 cycles 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 315 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 to be offered in 1939-40.

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.
The design of electrical machines and the predetermination of their characteristics.

504. Electrical Plant Design. (1-3). Credit 2.
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.
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.
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.
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.
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.

519. High Voltage Phenomena. (2-6). Credit 4.
A study of dielectrics as applied to the insulation of high voltage systems; lightning and lightning protection; impulse testing and measurement of impulse voltages and currents with a high voltage cathode ray oscillograph.

520. Advanced Illuminating Engineering. (3-3). Credit 4.
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, Associate Professor Spencer, Assistant Professor Breland, Instructors McGuire, Oliver, Loving, Mullins, Ransdell, Terrell.

111. Mechanical Drawing. (0-6). Credit 2. I, II
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. 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.

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, Abbott, Assistant Professors Key, [8]J. Q. Hays, Weaver, Instructors Stone, Elmquist, Wilkinson, R. E. Clark, Hedgcock, [8]Sakowitz, Hauer, Powell, Coulter, Owens, Stephens, Ekfelt, Greer, Ransom.

1. Fundamentals of English Composition. (3-0). No Credit. I, II
A review of the fundamentals of English usage and composition, for students unprepared to take English 103 with profit.

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.

207. Report Writing and Correspondence. (2-0). Credit 2. II
A course in the preparation of technical reports and of the most useful types of business letters. Prerequisite: English 103, 104.

210. Writing and Discussion. (2-0). Credit 2. II
A study of basic though 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 is English shows that they can take the course with profit. Prerequisite: English 203, 210, or 231, 232.

[8]On leave, 1938-39.

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. Agriultural 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 1939-40.)

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 1939-40.)

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). Cerdit 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.

329, 330. Journalism. (2-2). Credit 2 each semester.
This course is designed to give practical experience in newspaper and magazine writing and make-up. Advertising as it pertains to these types of publications will be studied.

401. Public Speaking. (0-2). Credit 1. 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 1939-40.)

415. Contemporary Continental Drama. (2-0). Credit 2. I
A study of representative plays (in translation) by Ibsen, Strindberg, Hauptmann, Sudermann, Schnitzler, Maeterlinck, Rostand, Hervieu, Brieux, 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 and discussion of 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 1939-40.)

DEPARTMENT OF ENTOMOLOGY

Professor Bilsing, Professor Little, Associate Professor Johnson, Instructor Sikes

201. General Entomology. (2-2). Credit 3. I, II
The systematic position of the various insects; the relation of the anatomy of the 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, flourine 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 arthopods 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. Offered 1939-40.)

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.

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.
A study of the morphological characteristics which are of taxonomic value including wing veination, genitalia and other external characteristics.

DEPARTMENT OF FISH AND GAME CONSERVATION

Professor Taylor, Professor Davis, Assistant Professor Bonham

201. Wildlife Conservation and Management. (3-0). Credit 3. I
An introduction to the wildlife resources of the United States with special reference to Texas. The importance of plants and animals in our economic and cultural life. An account of what has happened to North American wildlife with consideration of specific plans and methods for its rehabilitation, maintenance, and increase.

203. Wildlife Photography. (2-3). Credit 3. I
A study of the principles and practices of photography; methods of making photographs of fishes and other marine organisms, as well as of land birds, mammals and their environment; developing and printing, enlarging, and photomicrography.

304. Conservation and Management of Fishes. (3-0). Credit 3. II
A lecture course, considering the classification, habits, economic importance and conservation of fishes.

400s. Practical Fish Culture. Credit 6. S
A field course, conducted in cooperation with the fish hatcheries maintained by the Texas Game, Fish and Oyster Commission. Attention will be given to the life histories, ecology, embryology and propagation of fishes important for sporting and food purposes in Texas. Prerequisite: Approval of the instructor.

401. General Mammalogy. (2-6). Credit 4. I
An introduction to the study of the structure, classification and economic relations of mammals with special reference to deer, antelope, elk, rodents, flesh-eaters, fur-bearers, and others. Methods of collection and preparation of study skins of mammals. Foundation for wildlife management on the farm, in the forest, or on the range; also for museum work. Prerequisite: Biology 105, 106, or 107.

402. General Ornithology. (2-6). Credit 4. II
Introduction to the study of birds, their structure, classification, geographic distribution, ecologic relations and economic status. Special attention will be given to game species. Methods of collection and preparation of study skins. Foundation for wildlife management on the farm, in the forest, and on the range; also for museum work. Prerequisite: Biology 105, 106, or 107.

403. Ecology of Animals and Plants. (2-6). Credit 4. II
Animal-plant interrelationships. The web of life. The importance of taking full account of animal, plant, and environment. The place in wildlife management of action and reaction, zonation, succession, numbers, limiting factors, biological control, the balance of nature. A basic course. Required of all prospective graduates in Fish and Game Conservation. Prerequisite: Fish and Game Conservation 401 or 402.

404. Pond and Stream Improvement. (2-6). Credit 4. II
A study of lakes, ponds, and streams, with special reference to food and life habits of fishes and maintenance of production at optimum figures. Prerequisite: Fish and Game Conservation 403.

405. Systematic Study of Fishes. (2-6). Credit 4. I
The collection, identification, and life histories of American marine and fresh water fishes, with special reference to the fishes of Texas. Prerequisite: Biology 105, 106, or 107.

FOR GRADUATES

501, 502. Advanced Wildlife Studies. Credit 2 to 4 each semester.
The classification of selected groups of vertebrates; methods of practice in vertebrate life-history studies; survey of literature in the field of wildlife management; special problems and reports.

573, 574. Research on Wildlife Problems. Credit 2 to 6 each semester.
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 the interdependence of plants and animals. Written progress reports, weekly conference with instructor and the carrying out of a specific project in wildlife will be required.

DEPARTMENT OF GENETICS

Professor Humbert, Professor Godbey, Associate Professor Quisenberry, Instructor Hazel

301. Genetics. (3-2). Credit 4. I, II
Fundamental principles of genetics; heredity; variation; the physical basis of inheritance; the chromosome theory of inheritance; the expression and interaction of genes; linkage; sex and its inheritance; introduction to biometrical methods; laboratory work with Drosophila. Prerequisite: Biology 101 or Biology 107.

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
Problems of human reproduction; variation and heredity in human being; marriage and family relationships; the various phases of the problem of race betterment are studied from the biological point of view. Prerequisite: Genetics 301.

405. Survey of Eugenics. (3-0). Credit 3. I, II
Man as a species; human reproduction; genetic principles underlying human heredity; effects of the selection on the future of the race; the differential birth rate; general survey of the field of eugenics and eugenic reform and its social import. Open to students who have had little or no biology and who are interested in the biological basis of human nature.

406. Biometry—Experimental Technique. (2-3). Credit 3. II
The purpose of this course is to acquaint the student with the common methods of analyzing biological data. The planning, analyzing, and interpreting of experiments in plant and animal sciences. A study of measures of type, variability, linear relationship, significance of means, reliability, goodness of fit, analysis of variance.

FOR GRADUATES

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.

511, 512. Advanced Plant Genetics. (3-0). Credit 3 each semester.
Specialized study of plant genetics. Opportunity to specialize in some commercial crop. Standard textbooks and current scientific literature used. Students not majoring in genetics may receive credit for 511 without taking 513. For students majoring in genetics, courses 511 and 512 must be taken simultaneously with 513 and 514.

513, 514. Laboratory Methods in Plant Genetics. (0-4). Credit 1 each semester.
Technics and laboratory methods used in plant genetics, including data analysis.

515, 516. Advanced Animal Genetics. (3-0). Credit 3 each semester.
Specialized study of animal genetics; advanced genetic theory, including certain phases of cyto-, pheno-, and physiological genetics; opportunity to specialize on some breed or class of farm animal; standard textbooks and current scientific literature used. Students not majoring in genetics may receive credit for 515 without taking 517; students majoring in genetics are required to take Genetics 515 and 516 simultaneously with 517 and 518.

517, 518. Laboratory Methods in Animal Genetics. (0-4). Credit 1 each semester.
Genetic experiments with laboratory animals; technics and problems involved in maintaining a colony of laboratory animals for genetic purposes; artificial insemination; pregnancy diagnosis; genetic analysis of pedigrees and results of various systems of breeding.

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, Professor Burt, Associate Professor Turner, Assistant Professors Goldich, Bacon, Instructors J. F. Smith, Toulmin

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. For Petroleum Engineering students only, who should take this course and Geology 207 at the same time. Prerequisite: Chemistry 101, or equivalent.

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.

205. Elementary Geology. (2-2). Credit 3. I
General principles of physical geology, physiography and geologic processes. Some laboratory work in common rock and minerals and on topographic maps is required. Prescribed for Liberal Arts and elective for Science students.

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. For Petroleum Engineering students who should take this course and Geology 201 at the same time. Prerequisite: Chemistry 101, or equivalent.

210. 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 205.

211. Laboratory in Physical Geology. (0-3). Credit 1. S
The determination of common minerals and rocks and the interpretation of topographic maps. Optional for students of Geology 201 who do not also take Geology 207.

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, Chemistry 207 or 216, 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, 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 210 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 210 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 210 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.

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.

423s. Survey of Earth Science. (2-3). Credit 3. S
A broad survey of recognized methods of interpreting land forms, with consideration of the natural divisions of Texas, their origins and development. The laboratory work will include individual problems. Primarily for high school and junior college science teachers. Prerequisite: Approval of head of department.

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.

513. Earth Sculpture and Depositional Agencies. (5-5). Credit 7.
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.
Prerequisite: Geology 513.

516. Micropaleontology. (1-6). Credit 3.
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.
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, Associate Professor Steen, Assistant Professor Ludlum, Instructors A. B. Nelson, Dodson.

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. I
A comparative study of the governments of England, France, and Switzerland compared with those of Germany, Italy and Russia.

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, 1400 A. D. to the present. 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.

306. 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 year. Offered in 1939-40).

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 year. Offered in 1939-40.)

315. The United States from Roosevelt to Roosevelt, 1901-1938. 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.

318. International Developments Since 1918. (3-0). Credit 3. S
A general survey of world politics since the close of the Great War. Particular attention will be given to the problems and ideologies of the great powers of Europe and to those factors which condition and explain present political tendencies and policies. Due consideration will also be given to colonial problems in Asia and Africa including the Sino-Japanese question.

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 1939-40.)

DEPARTMENT OF HORTICULTURE

Professor Adriance, Professor Brison, Instructor Apple

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.

309, 310. Commercial Vegetable Crops. (2-2). Credit 3 each semester.
The production of vegetables for market as influenced by climate, soil, equipment and storage. The history, anatomy, taxonomy, seed production, and plant improvement of vegetable crops. Practice: the production, harvesting, and marketing of vegetable crops and the study of the plants as to taxonomy technique of breeding, and seed selection. Prerequisite: Horticulture 202.

311, 312. Fruit 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.

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.

427, 428. Seminar. (1-0). Credit 1 each semester.
Review of current experimental work in the field of horticulture, presented by staff members, graduate and senior students. Required of all graduate and senior students in horticulture, and restricted to these students.

430. Bush and Vine Fruits. (2-2). Credit 3. II
A detailed study of the growing and handling of grapes, dew berries and blackberries, strawberries, and similar fruits. Varieties and their adaptation to different regions of the State will be considered. Laboratory work to consist of the actual growing and handling of the fruits on the college grounds.

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 309, 310, or equivalent work.

507, 508. Research Methods. (2-6). Credit 4 each semester.
A comprehensive review of fundamental principles in research and methods employed in research. Practice: In the various techniques which may be used in different investigations of horticultural problems.

571, 572. Research in Horticulture. (3-4). Credit 4 each semester.
Research in horticultural problems, supervised through the cooperation of the Division of Horticulture of the Texas Agricultural Experiment Station.

DEPARTMENT OF INDUSTRIAL EDUCATION

Professor E. L. Williams, Associate Professor Glenn

105. Wood Craft. (1-5). Credit 3. I
Designing, building wood craft projects suitable for junior high school industrial arts classes.

106. Sheet Metal. (1-5). Credit 3. II
Designing, laying out, and making sheet metal projects.

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.

205. Ornamental Iron. (1-5). Credit 3. I
Designing and building ornamental iron projects.

301. Methods of Teachings and Class Management. (2-0) or (3-0) Credit 2 or 3. I
Methods of teaching as applied to industrial subjects. The management of the class, equipment, and supplies.

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.

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: organization problems, instructional material; making teaching plans in preparation of 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
The meaning and purpose of guidance. Methods of investigation in guidance. Methods of guiding students.

409. Methods of Introducing Industrial Organization and Management into Industrial Schools. (2-0). Credit 2. II
The management of modern industrial enterprises and the possible adaptation to industrial schools.

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.

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
Selecting occupations suitable for young people to learn, placing students in suitable employment on a part-time basis and coordinating their school studies with their work activities.

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.

423. Analysis Procedure. (1-2). Credit 2. S
Each student will make an analysis of his occupation to determine contents for courses in that occupation. Type jobs within the occupation will be analyzed to determine the order and content of lessons to be taught.

424. Organization of Instructional Material. (1-2). Credit 2. S
A study will be made of published material available in the student's occupational field. Those parts found suitable for vocational classes will be indexed and organized for class use. Types of instruction sheets found necessary for efficient teaching will be written.

427. Traffic Safety and Automobile Operation. (1-3). Credit 2. S

FOR GRADUATES

507a. Organization of Industrial Arts Departments. (2-0). Credit 2.
Problems in determining the type and size of industrial arts programs for the various types and sizes of schools with plans for the organization of each.

507b. Organization of Vocational Industrial Schools and Classes. (2-0). Credit 2.
Methods of making surveys, determining possible vocational education programs to meet the needs of different types of communities and the proper organization for these classes under the State plan for Vocational Education.

508. Administration and Supervision in Industrial Education. (4-0). Credit 4.
Problems of the local director or supervisor of departments of industrial education.

509, 510. Methods of Teaching High School Drawing. (2-4). Credit 3 each semester.
A survey of the field of drawing. The designing and organizing of problems and teaching devices. The first semester is devoted to general mechanical drawing as taught in the first two years of high school; the second semester to machine drawing. Either semester may be taken separately.

511. Industrial Education Problems. (4-0). Credit 4.
A study of current problems in Industrial Education. Research and organization of material to assist in the solving of individual problems.

514. Guidance Seminar. (2-0). Credit 2.
The organization of occupational information; educational and vocational guidance; counseling case problems. Prerequisite: I. E. 406 or a similar course.

515. Research in Industrial Education. (1-3) or (2-6). Credit 2 or 4.

516. Methods of Teaching Industrial Arts in Secondary Schools. (2-0). Credit 2.
Selecting and organizing instructional material for problems in a particular arts activity. This course must be taken with one of the following courses: Industrial Education 520a, 520b, 520c, 520d.

518. Tests and Measurements in Industrial Education. (2-0). Credit 2.
A study of testing and measuring devices and their application to industrial education subjects.

519. Related Subjects in Part-Time Cooperative Programs. (2-0). Credit 2.
The organization and presentation of content material necessary in Part-time Cooperative Programs, and the direction of the study of the students engaged in such programs.

520a. Auto Mechanics. (1-4). Credit 2.

520b. Electricity. (1-4). Credit 2.

520c. Cabinet Making. (0-5). Credit 2.

520d. Machine Shop. (0-5). Credit 2.
The designing, building, and testing of laboratory problems in one of the above fields of public school industrial arts. Prerequisite: Industrial Education 516 or registration in the course. These courses given in cooperation with the engineering departments that have the laboratories.

521. Philosophy of Vocational Education. (2-0). Credit 2.
The basic principles involved in the development and operation of industrial education programs under the State and Federal Vocational laws.

522. Philosophy of Industrial Arts Education. (2-0). Credit 2.
The principles involved in the development and operation of industrial arts courses and their purpose and function in the field of general education.

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, Assistant Professor Horsley

LANDSCAPE ART

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.

302. Design of Small Areas. (1-4). Credit 2. II
A continuation of course 301 for students majoring in Landscape Art. Designs and detail planting plans for small outdoor areas. Prerequisite: Landscape Art 301.

304. Landscape Construction. (0-6). Credit 2. 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.

307, 308. Park and Recreational Development. (2-0). Credit 2 each semester.

Study of present conditions in the field of recreation; history of the movement; trends in development. Characteristics of various types of recreation areas; their construction, development, administration, operation, and maintenance. Planning procedure; some principles of design and construction of recreational structures and facilities.

316. Dendrology and Silvics. (2-2). Credit 3. II

Identification and life history of important tree species. Relation of the forest to its environment, discussion of qualifying factors and systems of forest development. Relation of forestry to other land use. Prerequisite: Biology 101.

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 302, 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 representative collection of the commoner conservatory and flowering plants are available. Prerequisite: Horticulture 201.

411. Landscape Design for the Architect and Engineer. (2-2). Credit 3. I

An elementary course in landscape appreciation, design, and construction. Arranged primarily for architectural and engineering students. The planning and maintenance of the areas surrounding residential, industrial, and other outdoor areas. Not open to students eligible for Landscape Art 301.

FORESTRY

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.

305. General Forestry. (2-0). Credit 2. I, II

Relation of forestry to allied phases of agriculture. Function of forestry in land-use planning. Discussion of various phases of forestry practice. Reference work. No prerequisite.

405s. Practical Forestry in Woodland Management. (0-12). Credit 4. S

Problems, practices, and economics of forestry as a form of land use; local, state, and national background of present forestry practice. Study of tree growth and requirements, values, and identification; measurements used in forestry; management of timber as a crop; marketing, manufacture, and utilization of forest products; forest protection; nursery and planting practice; reproduction methods; wood preservation and seasoning.

A field course to be given under the direction of the Landscape Art Department in cooperation with the Texas Forest Service. The work will be conducted at State Forest No. 1, near Kirbyville.

The course is open to county agents, teachers of vocational agriculture, and junior and senior students of advanced standing, subject to regulations of the College and the Graduate School.

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, Edmonson, Binney, Associate Professor Martin, Assistant Professors T. R. Nelson, J. W. Ross, Chaney, Hall, Klipple, Instructors Blumberg, McGee, Finlay, [10a] Jackson, Hurt, Kent, Luther, B. C. Moore, Lyle, Koss, McCulley, W. L. Johnson, B. W. Brewer, Jennings, Temple, Hillman

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.

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.

506. Theory of Probability. (4-0). Credit 4.

[10a] On leave, 1937-38.

507, 508. Theory of Functions of a Real Variable. (4-0). Credit 4 each semester.

511. Ordinary Differential Equations. (4-0). Credit 4.

512. Partial Differential Equations. (4-0). Credit 4.

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. Elliptic Integrals. (3-0). Credit 3.

520. Fourier's Series and Allied Topics. (4-0). Credit 4.

530. Seminar Course in Mathematics. (4-0). Credit 4.
For advanced graduate students. The content will be adapted to the interests of the group enrolled. Consequently, a student may receive repeated credit for the course.

DEPARTMENT OF MECHANICAL ENGINEERING

Professor Crawford, Professors Brewer, Faires, Long, Associate Professor Truettner, Assistant Professors Wingren, Trail, Hopper, Instructors Downard, [9]McCarter, Fleming, Mertz, Simmang, A. M. Nelson, L. P. Thompson, J. G. H. Thompson, McDonald, Berryman.

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 casting, 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
Forces and force systems, resultants, components, 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
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.

[9]Died, December 29, 1938.

220. Engineering Mechanics. (4-0). Credit 4. II
The principles of mechanics as related to both statics and kinetics. A condensation of the material in Mechanical Engineering 212 and 313. Prerequisite: Mechanical Engineering 102. Must be preceded or accompanied by Mathematics 204.

303, 304. Machine Design. (2-3). Credit 3 each semester.
The theory and practice of machine design applied to machine elements and complete machines. Prerequisite: Mechanical Engineering 338.

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, babbiting, 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; application 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. I, II
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. Given in alternate years.

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. Prerequisite: Must be preceded or accompanied by Mechanical Engineering 313.

338. Kinematics and Machine Design. (2-3). Credit 3. II
A study of instantaneous centers and relative velocities, followed by the design of cams and an introduction to elementary stress analysis. Must be preceded or accompanied by Civil Engineering 305.

403, 404. Engineering Laboratory. (1-3). Credit 2 each semester.
Testing gauges, indicators, fans, pumps, boilers, engines and turbines; 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 the 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 semester.
Application of fundamental principles to the operation and testing of all types of power plant equipment. The selection and arrangement of such equipment from the standpoint of economics. Prerequisite: Mechanical Engineering 320.

419, 420. Industrial Engineering. (3-0). Credit 3 each semester.
Principles of management as applied in modern industry; location and layout of factories, control of production, systems of wage payment, cost keeping, human relations. Prerequisite: Senior classification.

423. Industrial Administration. (3-0). Credit 3. I
Problems involving material control, store accounts, business statistics and investments. Prerequisite: Senior classification; must be accompanied by Mechanical Engineering 419.

428. Aerodynamics. (3-0). Credit 3. II
The fundamentals of airplane design and construction. Recent articles on current practice; research problems. Prerequisite: Mechanical Engineering 313.

430. Production Engineering. (2-2). Credit 3. II
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
Th 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
The fundamentals of the physical metallography of iron, steels and alloys, laboratory work in polishing, etching and preparation of specimens, making and studying photomicrographs.

440a. Physical Metallography. (2-0). Credit 2. I, II
Same as M. E. 440 in theory. Laboratory omitted.

442. Influence of Technics on Society. (3-0). Credit 3. II
A study of the effect on society of the introduction and use of machinery and an estimate of the social trends. Prerequisite: Senior Classification.

444. Fluid Mechanics. (3-0). Credit 3. II
A study of the relationship of properties such as viscosity and density to flow of fluids. A detailed study of Reynold's number and its application to dynamic lift, propulsion, boundary-layer theory and related subjects. Prerequisite: Mechanical Engineering 313, 320.

FOR GRADUATES

501. Advanced Machine Design. (2-6). Credit 4.
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.
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.
Velocities and accelerations, with particular emphasis upon balancing. Prerequisite: Mechanical Engineering 304.

515. Advanced Engineering Thermodynamics. (4-0). Credit 4.
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.
The fundamental laws relating to heat flow, the application of these laws to engineering materials used in various industrial processes, a study of recent developments by reference to current literature.

517. Mechanical Vibrations. (4-0). Credit 4.
Vibration as applied to mechanical engineering, the general theory in a readily understandable form, 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 Geo. F. Moore, Professors Lieutenant Colonel O. E. Beezley, Lieutenant Colonel R. L. Christian, Major W. R. Irvin, Major J. G. Drinkwater, Major J. W. Rice, Major R. E. Hill, Major L. S. Stickney.

Assistant Professors Major Raymond Orr, Major F. H. Wilson, Major F. Von M. Dyer, Major F. A. Hollingshead, Captain L. R. Garrison, Captain P. H. Enslow, Captain J. A. Cella, Captain T. D. Roberts, Captain B. S. Shute, Captain C. F. Burbach.

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, Sergeant F. A. Whitmore, Sergeant Frank Ripper, Sergeant G. S. Moss, Sergeant J. W. Hahnel, Sergeant E. C. Hetrick, Sergeant Walter Dills, Sergeant Claudie Thompson.

INFANTRY UNIT

Professor R. L. Christian, Lieutenant Colonel, Infantry
Assistant Professor Raymond Orr, Major, Infantry
Assistant Professor F. H. Wilson, Major, Infantry
Assistant Professor F. Von M. Dyer, Major, 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 photgraphs, 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, Lieutenant Colonel, Field Artillery
Assistant Professor L. R. Garrison, Captain, Field Artillery
Assistant Professor P. H. Enslow, Captain, Field Artillery
Assistant Professor J. A. Cella, Captain, Field Artillery
Assistant Professor C. F. Burbach, 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, Sgt., D.E.M.L.
Assistant E. C. Hetrick, Sgt., D.E.M.L.
Assistant C. Thompson, Sgt., 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, Sergeant, D.E.M.L.
Assistant A. Stern, Private First Class, D.E.M.L.

105, 106. (1-2). Credit 1 each semester.

(a) Theoretical: (1) Military Fundamentals-National Defense Act and ROTC; Obligations of Citizenship; Military History and Policy; Military Discipline, Courtesies, and Customs of the Service; Military Sanitation and First Aid; Organization of the Army; Signal Corps Organization; Map Reading. (2) Signal Communication-Radio Communication: Code Practice and Radio Procedure.

(b) Practical: (1) Leadership-Infantry Drill: Duties of the Soldier. (2) Signal Communication-Wire Communication: Field Systems, Materiel, Installation, Operation, and Maintenance, Duties of Field Lineman; Map Reading.

Prerequisite: Enrollment in Electrical Engineering.

205, 206. (1-2). Credit 1 each semester.

(a) Theoretical: Signal Communication-Radio Communication: Code Practice, Radio Procedure, Field Systems, Materiel, Duties of Radio and Telegraph Operator; Wire Communication: Field Systems, Materiel, Installation, Operation, and Maintenance, Duties of Telephone Switchboard Operator; Signal Communication for All Arms and Services.

(b) Practical: (1) Leadership-Infantry Drill: Duties of Squad Leader. (2) Signal Communication-Radio Communication: Installation and Operation of Field Radio and Telegraph Stations; Wire Communication: Installation and Operation of Field Telephone Centrals.

Prerequisite: M. S. 105, 106, and continued enrollment in Electrical Engineering.

305, 306. (3-2, 0-2). Credit 3, 1.

(a) Theoretical: (1) Military Fundamentals-Aerial Photograph Reading; Defense Against Chemical Warfare; Administration; Organization of the Infantry Division. (2) Signal Communication-Homing Pigeons; Message Centers; Procedure and duties of Message Center Chief; Wire Communication: Testing, Plant, and Traffic, Duties of Wire Chief; Radio Communication: Installation, Operation, and Maintenance, Duties of Radio Chief. (3) Signal Communication Tactics-Combat Orders and Solution of Problems; Signal Company and Troop Combat Orders; Tactical Signal Communication, Infantry and Cavalry Divisions. (4) Training Management-Methods of Teaching Individuals and Teams, Technical Leadership.

(b) Practical: (1) Leadership-Infantry Drill: Duties of Platoon Sergeants and Guides. (2) Signal Communication-Tactical Signal Communication: Duties of Section Chiefs of Message Center, Radio, Telephone, and Construction Sections during the various phases of Unit Training.

In addition to the above the student must complete E. E. 310. Total degree credit for combination M. S. 306 and E. E. 310 is 3 credits.

Prerequisite: M. S. 205, 206, and continued enrollment in Electrical Engineering.

405, 406. (0-2, 3-2). Credit 1, 3.

(a) Theoretical: (1) Military Fundamentals-Military Law; Property, Emergency Procurement, and Funds; Officers Reserve Corps; Military History and Policy; Operation and Maintenance of Signal Corps Motor Transport. (2) Signal Communication: Elementary Military Cryptography; Advanced Military Cryptography. (3) Training Management-Methods of Teaching Individuals and Teams; Technical Leadership; Unit Training.

(b) Practical: (1) Leadership-Infantry Drill: Duties of Platoon, Company, and Battalion Commanders, and Staff Officers. (2) Training Management-Practice in the Application of Methods Used in Teaching Individuals and Teams; Technical Leadership; Unit Training. (3) Signal Communication-Tactical Signal Communication: Preparation and Execution of Reduced Distance Field Problems; Duties of Division Signal Officer, Company, Platoon, and Section Commanders.

In addition to the above the student must complete E. E. 409. Total degree credit for combination M. S. 405 and E. E. 409 is 4 credits.

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.
Assistant F. Ripper, Sgt., D.E.M.L.
Assistant G. S. Moss, 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 B. S. Shute, Captain, Corps of Engineers
Assistant E. R. Tolliver, Staff Sgt., D.E.M.L.
Assistant J. W. Hahnel, 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 R. E. Hill, Major, C. A. C.
Assistant Professor F. A. Hollingshead, Major, C. A. C.
Assistant V. M. Miller, Staff Sgt., D.E.M.L.
Assistant W. Dills, 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 seasoast 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 antiaircraft 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, courtesies, and customs of the service; National Defense Act, military history and policy, obligations of citizenship; military hygiene, sanitation, and first aid; map reading; organization of the army and the chemical warfare service.

(b) Practical: Leadership, drill and command; chemical warfare drill, defense against chemical warfare; pistol marksmanship; chemical warfare weapons; practical map reading.

Prerequisite: Enrollment in Chemical Engineering.

215, 216. (1-2). Credit 1 each semester.

(a) Theoretical: Elementary military chemistry; elementary gunnery; chemical warfare weapons; advanced defense against chemical warfare; signal communications; motors and motor transport.

(b) Practical: Leadership of small units; infantry and chemical warfare drill and command; chemical weapons, marksmanship; practical field wiring.
Prerequisite: M. S. 115, 116; continued enrollment in Chemical Engineering.

315, 316. (0-2, 3-2). Credit 1, 3.
(a) Theoretical: Military instruction methods; infantry combat principles, administration, aerial photograph reading, advanced gunnery; technique of firing chemical agents; advanced military chemistry; elementary chemical warfare tactics; meterology.
(b) Practical: Practice in instructional methods; infantry and chemical warfare leadership, drill and command; practical meterology.
In addition to the above the student must complete Ch.E. 305 concurrently. Total degree credit for combination M. S. 315 and Ch.E. 305 is 3 credits.
Prerequisite: M. S. 215, 216; Ch.E. 400s; continued enrollment in Chemical Engineering.

415, 416. (3-2, 0-2). Credit 3, 1.
(a) Theoretical: Training management; military history; military law and courts-martial procedure; regulations of the O.R.C.; estimate of the situation and combat orders; advanced infantry tactics; tactics of associated arms.
(b) Practical: Training management; instructional methods; infantry and chemical warfare leadership, drill and command; solution of map and terrain problems.
In addition to the above, the student must complete Chem. 448 concurrently. Total degree credit for combination M. S., 416 and Chem. 448 is 3 credits.
Prerequisite: M. S. 315, 316; continued enrollment in Chemical Engineering.

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 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 250 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, reading and conversation.

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, composition and conversation. Parallel reading.

205a. Intermediate Spanish. (5-0). Credit 3.
Same as regular course 205 except for more intensive grammar review. This course will be taken by students entering with high school credit of two units in Spanish with a grade below B, and by other students in whose case 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 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 Echegaray 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 1939-40.)

335, 336. Spanish-American Novel. (3-0). Credit 3 each semester.
The study of the modern Spanish-American novel and its background.
Open to students who have completed courses 205, 206 or 305, 306.
(Offered in alternate. Not offered in 1939-40.)

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 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. Advanced Sanitary Engineering. (4-0). Credit 4 each semester.
Study of the problems of water supply and sewerage; recent developments in the treatment of water and sewage.

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.

507, 508. Environmental Sanitation. (4-0). Credit 4 each semester.
Detailed study of environment and its relation to disease, covering malaria and its control; rodent control; sanitation of milk, shellfish, and other foods; collection and disposal of municipal refuse; sanitary aspects of air conditioning; housing sanitation, including plumbing, ratproofing, etc.; rural water supply and excreta disposal; sanitary inspection procedure; principles of epidemiology.

509. Industrial Hygiene. (2-2). Credit 3.
Occupational hazards and diseases; industrial poisons and dusts; methods of air examination; factory sanitation.

510. Industrial Wastes. (2-0). Credit 2.
Amount and characteristics of the commoner industrial wastes; their effects upon sewage treatment problems; methods of treatment. Prerequisite: MSE 401 or its equivalent.

DEPARTMENT OF PETROLEUM ENGINEERING

Professor Vance, Professor Stevens, Associate Professors J. P. Hays, Gross.

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. (3-3). Credit 4. 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, M. E. 323, Chemistry 342a.

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.

411, 412. Petroleum Production Research. Credit 2 to 4 each semester.
Original investigation of some problem within the field of petroleum production; primarily a thesis course. Prerequisite: Registration in fifth year of five-year curriculum in Petroleum Engineering and approval of head of department as to subject and number of credits allowed.

417. Petroleum Engineering Seminar. (0-2). Credit 1. I, II
The study and presentation of papers pertaining to recent developments in the field of petroleum engineering. Prerequisite: Petroleum Engineering 204, 303, 304.

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 Penberthy, Professors Anderson, Norton, Rollins, Associate Professor McQuillan, Assistant Professor Karow, Instructor 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. Courses for students who desire to major in Physical Education.

I. Physical Education 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 of attendance at the college. These teams are supervised by members of the Department of Athletics. Students participiting satisfactorily, if properly registered for physical education are given credit for the appropriate term. Freshman teams are fostered in football, basketball, baseball and track.

IV. 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.

313. Introduction to Physical Education. (3-0). Credit 3. I
The approach, fundamental principles and application of principles; definition, traditions, development, psychology, aims, objectives and results of physical education, building a program of health and physical education. Prerequisite: Sophomore standing and approval of instructor.

314. Organization and Administration of Health and Physical Education. (3-0). Credit 3. II
Curriculum content, construction and administration; management of sports; organization and administration of leisure time activities, intramural and inter-collegiate athletics; planning and administration of facilities. Prerequisite: Physical Education 313.

317. Coaching of Football. (2-0). Credit 2. I
Teaching of fundamentals; individual techniques; training; offensive and defensive strategy; officiating. Prerequisite: Junior standing and approval of instructor.

319. Coaching of Basketball. (2-0). Credit 2. I
Preparation for the season; training; offensive and defensive fundamentals; team offense and defense; game strategy. Prerequisite: Junior standing and approval of instructor.

405. Public School Activities. (2-2). Credit 3. I
Organization of physical activities in public schools; practice in teaching games used in public school programs. Must be preceded or accompanied by Physical Education 313.

406. Methods of Physical Education. (2-2). Credit 3. II
Class organization, control and management; methods of presenting subject matter; special methods in activities; tests and measurements. Prerequisite: Physical Education 405.

408. Coaching of Track. (2-0). Credit 2. II
Teaching of techniques of each event; selection of individuals for events; methods of training; conducting meets. Prerequisite: Junior standing and approval of instructor.

410. Coaching of Baseball. (2-0). Credit 2. II
Teaching of individual techniques; position play; training; team offensive and defensive strategy. Prerequisite: Junior standing and approval of instructor.

DEPARTMENT OF PHYSICS

Professor Silvey, Professor Vezey, Associate Professors Sanders, McCorkle, Assistant Professors E. G. Smith, Schoepfle, Instructors Godbold, Weekes, J. Morgan, H. D. Baker

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.

233. Descriptive Astronomy. (3-2). Credit 4. I
A study of the solar system, comets, meteors, stars, clusters and nebulae. The laboratory exercises include a study of the constellation and preparation of star maps; a study of the earth's motion, the celestial globe, the motion of the moon, rotation of the sun from observation of sun spots; plotting of metear trails; measurement of time and construction of a sun dial. Prerequisite: Math. 101, 103.

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 electric magnetic 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, Gibbs 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 abberations, 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 Parnell

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 production, 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.

308. Hatchery Management. (2-3). Credit 3. II

Commercial hatching in America, early commercial hatcheries, expansion, types of hatchery enterprise, related activities, localization of hatchery business, how and where to start, actual location, hatchery building, inside arrangement, ventilation, heat and temperature control, hatchery equipment, types of incubators, hatchery flock improve-

ment, Texas U. S. plan, sanitation, incubation practices, hatchery flock improve-prices and hatchery costs. Practice consists of culling and blood testing hatchery flocks, putting 5,000 eggs in the incubator, fumigating and disinfecting incubator, candling hatching eggs, pedigreeing and judging baby chicks.

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 consist of problems in organizing, financing and establishing a commercial poultry business. Prerequisite: Poultry Husbandry 201, 401 and Genetics 301.

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, standard disqualifications and special disqualifications for the different varieties. The practice consists of judging classes of exhibition and production 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.

412s. Advanced Poultry Management. (3-2). Credit 4. S

This course is intended primarily for mature individuals, who have a need for additional and accurate information concerning the underlying principles of poultry management, as applied to large poultry flocks. The theory will consist of a study of the selection of breeding stock, based on body conformation, physical and hereditary characters. A thorough study of the science and practice of feeding and managing large farm poultry flocks will be included. The diagnosis and treatment of the more common parasites and diseases of poultry will be studied. Approximately three lecture periods will be devoted to a discussion of the specific poultry problems that are confronting the students in their work.

The practice will consist of the practical application of the different points brought out in the theory. The student will be given an opportunity to actually perform the different jobs about which he has been studying.

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.

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.
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 project in animal nutrition will be required.

DEPARTMENT OF PSYCHOLOGY

Professor Winkler

207. General 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 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, Associate Professor Ashton, Instructor 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.

315. Family Relations. (3-0). Credits 3. I, II
A study of the problems of modern family relations with special relationships to needs of college students and modern day youth.

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 plans, 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.

416. Agricultural Journalism. (2-2). Credit 3. II
A continuation of course 415. Additional practice in the preparation of articles for agricultural and country newspapers; news campaigns for special objectives; the business side of conducting a paper.

FOR GRADUATES

501, 502. Advanced Rural Sociology. (4-0). Credit 4 each semester.
An intensive study of some important aspects of the field of rural sociology. The first semester is concerned mainly with the evolution of rural society; the second semester with an analysis of some of the principal rural social problems of today and proposed solutions.

511. History of Modern Social Thought. (4-0). Credit 4.
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.
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.

571, 572. Research Methods and Problems. (2-6). Credit 4 each semester.
Principles of research as applied to the field of Rural Sociology, analysis of rural social research projects of state and national governmental research agencies and private research agencies. A special study of research methods and techniques as applied to Rural Sociology.

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.

201. Fiber Classification and Manufacture. (2-0). Credit 2. I
A study of the physical and chemical properties of all commercial fibers, together with their origin, distribution, relative importance, manufacture and waste, methods of testing, uses and competative values. To cover vegetable, animal, artificial, and mineral fibers.

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 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 ad 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 1939-40.)

DEPARTMENT OF VETERINARY ANATOMY

Professor Leith, Assistant Professor Lange, Instructor McCurdy

111. Veterinary Anatomy. (3-6). Credit 5. I
A course in osteology and arthrology. Prerequisite: Biology 207 or equivalent.

112. Veterinary Anatomy. (2-6). Credit 4. II
A course in myology and splanchnology. Prerequisite: Veterinary Anatomy 111.

211. Veterinary Anatomy. (2-9). Credit 5. I
A course in angiology, neurology, and aesthesiology. Prerequisite: Veterinary Anatomy 112.

213. Veterinary Histology. (2-6). Credit 4. I
A lecture and laboratory course in microscopic veterinary anatomy. Prerequisite: Veterinary Anatomy 211, or taken concurrently.

214. Veterinary Embryology. (2-4). Credit 3. II
A lecture and laboratory course emphasizing mainly the embryology of farm and pet animals with the view of qualifying students for the study of animal breeding and veterinary obstetrics. Prerequisite: Veterinary Anatomy 211, 213, and Veterinary Physiology 221.

304. Veterinary Topographical Anatomy. (1-6). Credit 3. II
A course for students who wish to take advanced work in the surgical anatomy of farm and pet animals. Prerequisite: Veterinary Physiology 222; Veterinary Anatomy 213.

FOR GRADUATES

511, 512. Advanced Veterinary Anatomy. (2-4). Credit 3 each semester.
A course for students who wish to become teachers or research workers in veterinary anatomy. Prerequisite: Veterinary Anatomy 214, 304.

DEPARTMENT OF VETERINARY HYGIENE

Professor Jaggi

491. Animal Diseases. (3-2). Credit 4. I
A course designed to instruct students in the importance of healthy farm and ranch animals, including poultry. It includes the purchase of animals free of disease, maintaining sanitary premises, and giving definite consideration to the prevention, control and eradication of diseases due to infections and parasites. The relation of incomplete rations to disease and the intertransmission of diseases of animal and man, from a public health standpoint, is emplasized. Prerequisite: Veterinary Physiology and Pharmacology 322.

492. Food Hygiene. (2-2). Credit 3. II
The ante-mortem and post-mortem abattoir inspection of food animals, and the laws and regulations governing the interstate and foreign shipment of meat and meat products, and the disposal of contaminated products. The preservation and processing of foods, and examination for adulteration. The examination of milk for adulterants and bacteria, particularly those that originate from unhealthy cows and a contaminated water supply. A thorough study is made of the United States Public Health Service standard milk ordnance. Prerequisite: Veterinary Pathology 342, 343; Veterinary Hygiene 493.

493. Infectious Diseases. (3-0). Credit 3. I
A study of the infectious diseases of animals, and the interrelation of infectious diseases of man and animals. Prerequisite: Veterinary Medicine 352, Veterinary Surgery 362; Veterinary Pathology 342, 343; Veterinary Pharmacology 334.

FOR GRADUATES

501, 502. Advanced Food Hygiene. (3-4). Credit 4 each semester.
The study of causes and evidence of spoilage, and detection of adulterants in fresh, canned and cured foods, and in food products such as meats, fish, vegetables and fruits.

DEPARTMENT OF VETERINARY MEDICINE AND SURGERY

Professor Lenert, Professor Marsteller, Instructors Spangler, Ketchersid

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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; R. D. Turk, Veterinarian, Agricultural Experiment Station, Lecturer on Diseases of Cattle; P. L. Piercy, Veterinarian, Agricultural Experiment Station, Lecturer on Protozoan Diseases; Invitation Lecturers.

351, 352. Veterinary Medicine. (3-0). Credit 3 each semester.
Non-infectious diseases. Lectures and demonstrations on physical diagnosis. Diseases of the digestive, circulatory, respiratory, and urinary organs. Prerequisite: For 351: Veterinary Pharmacology 333 and Veterinary Clinic 371 or taken concurrently; For 352: Veterinary Medicine 351; Veterinary Clinic 372 and Veterinary Pharmacology 334 or taken concurrently; Veterinary Pathology 341.

361, 362. Veterinary General Surgery. (3-0). Credit 3 each semester.
The principles of surgery, restraint of domestic animals, surgical diagnosis, surgical exercises and unsoundness. Prerequisite: For 361: Veterinary Pharmacology 333, Veterinary Medicine 351; Veterinary Clinic 371 or taken concurrently. For 362: Veterinary Surgery 361; Veterinary Pathology 341.

371, 372. Veterinary Clinics. (0-6, 0-12). Credit 2, 4.
NOTE: All students taking clinics are required to give attention daily to cases assigned, and if necessary laboratory diagnoses 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 cannot be studied at the College. About seven thousand cases of non-infections diseases, infectious diseases and surgical diseases of animals and fowls are treated each year. Prerequisite: For 371: Veterinary Medicine 351; Veterinary Surgery 361 or taken concurrently. For 372: Veterinary Clinic 371; Veterinary Medicine 352, and Veterinary Parasitology 481 or taken concurrently.

451. Diseases of Small Animals. (3-0). Credit 3. . I
Non-infectious and infectious diseases in pet animals, fur bearing animals and laboratory animals. Prerequisite: Veterinary Medicine 352, Veterinary Surgery 362, and Veterinary Clinic 372; Veterinary Pharmacology 334; Veterinary Pathology 342, 343; Veterinary Parasitology 481 or taken concurrently.

452. Practice of Veterinary Medicine and Jurisprudence. (2-0). Credit 3. II
General business methods, and state and national laws relating to the practice of veterinary medicine. Prerequisite: Veterinary Medicine 352, Veterinary Surgery 362; Veterinary Pharmacology 334; Veterinary Pathology 441; Veterinary Hygiene 493; Veterinary Parasitology 481.

461. Veterinary Obstetrics. (3-0). Credit 3. I
Accidents of breeding, diseases incident to pregnancy, parturition and postpartum conditions. Attention is also given to diseases of the newly born. Prerequisite: Veterinary Medicine 352, Veterinary Surgery 362, and Veterinary Clinic 372.

462. Veterinary Operative Surgery. (3-4). Credit 4. II
Castrating, spaying, dentistry, lameness, shoeing. Surgical exercises are required. Prerequisite: Veterinary Clinic 471; Veterinary Pathology 342, 343, 441.

471, 472. Veterinary Clinics. (0-6, 0-6). Credit 2 each semester.
Prerequisite: For 471: Veterinary Medicine 352, Veterinary Surgery 362, Veterinary Clinic 372. For 472: Veterinary Clinic 471; Veterinary Pathology 441; Veterinary Hygiene 493; Veterinary Parasitology 481.

FOR GRADUATES

501, 502. Advanced Veterinary Surgery. (2-4). Credit 3 each semester
Problems of surgical conditions, surgical pathology and surgical technique of sterility of animals.

VETERINARY PARASITOLOGY

Professor Van Volkenberg

481, 482. Parasites of Domestic Animals. (2-3, 1-3). Credit 3, 2.
The parasites infesting farm, ranch, pet and fur bearing animals. Attention is given to symptoms, diagnosis, treatment, control and eradication of parasitic diseases. Practice consists of a study of the morphology of parasites; laboratory and diagnostic methods used in parasitology; the pathology of parasitism. Both fresh and preserved material obtained from the field, clinics and necropsies are utilized in the laboratory. Prerequisite: Veterinary Pathology 342; Veterinary Pharmacology 334; Veterinary Parasitology 481 for 482.

484. Diseases of Wild Game. (2-2). Credit 3. II
A study of the diseases of wild animals including mammals, birds and fish. Prerequisite: Entomology 201, Biology 206, 217, 218, 341 and 342, Wild Game 401 and/or 402. For students in Veterinary Medicine: Wild Game 201, Veterinary Hygiene 493 and Veterinary Parasitology 481.

DEPARTMENT OF VETERINARY PATHOLOGY

Professor Dunn, Assistant Professor Milliff

H. Schmidt, Chief Veterinarian, Agricultural Experiment Station, Lecturer on Special Pathology; Hilton Atmore Smith, Veterinarian, Agricultural Experiment Station, Lecturer on Special Pathology.

242. Veterinary General Pathology. (3-4). Credit 4. II

The elementary disease processes and their causes, including a study of the gross and minute appearance of the diseased tissue. Such processes as inflammation, necrosis, gangrene, atrophy, hypertrophy, ulceration; the various degenerations, infiltrations, pigmentations and tumor formations are considered. Practice consists of the microscopical study of these processes and instruction in laboratory technique. Prerequisite: Veterinary Anatomy 211, 213; Veterinary Physiology 221.

341, 342. Veterinary 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; Veterinary Pathology 341 and 343 for 342.

343. Veterinary 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, Veterinary Pathology 242.

441. Veterinary 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 342, 343.

444. Veterinary 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; radiographic and fluoroscopic examinations. Prerequisite: Veterinary Pathology 441, Veterinary Hygiene 493.

446. Veterinary Poultry Pathology. (2-2). Credit 3. II

The pathology of diseases of poultry will be considered from clinical, pathological, bacteriological and parasitical standpoints. Prevention, control and treatment will also be given consideration. Prerequisite: Veterinary Pathology 343, 441; Veterinary Hygiene 493; Veterinary Parasitology 481.

FOR GRADUATES

541, 542. Advanced Veterinary 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 342, 343 or equivalent.

543, 544. Advanced Veterinary Pathology. (3-4). Credit 4 each semester.

A study of pathogenic micro-organisms; their cultural and biological characteristics and pathogenicity. Prerequisite: Veterinary Pathology 342, 343 or equivalent.

DEPARTMENT OF VETERINARY PHYSIOLOGY AND PHARMACOLOGY

Professor Burns, Instructors Edds, Ott

Dr. B. L. Warwick, Animal Husbandman, Agricultural Experiment Station, Lecturer on Physiology of Reproduction; Dr. F. P. Matthews, Veterinarian, Agricultural Experiment Station, Lecturer on Poisonous Plants.

121. Veterinary Physiology. (2-0). Credit 2. I
An introductory course in the study of physiology; physico-chemical basis of physiology; fundamental properties of animal protoplasm. Prerequisite: Chemistry 101, 102.

122. Veterinary Physiology. (2-3). Credit 3. II
Digestion and absorption in the domestic animals. Chemical physiology, with special reference to food, digestive juices and enzymes. Prerequisite: Veterinary Physiology 121; Veterinary Anatomy 111; Veterinary Anatomy 112 or taken concurrently; Chemistry 206.

221. Veterinary Physiology. (3-6). Credit 5. I
A course on vitamins; metabolism and excretion; circulatory system; muscular system and locomotion. Prerequisite: Veterinary Physiology 122; Chemistry 206; Veterinary Anatomy 112; Veterinary Anatomy 211 and 213 or taken concurrently.

222. Veterinary Physiology. (3-6). Credit 5.
The functions of the reproductive, endocrine, nervous and respiratory systems of domestic animals. Prerequisite: Veterinary Physiology 221; Veterinary Anatomy 211, 213.

322. Physiology and Anatomy of Farm Animals. (2-2). Credit 3. II
A consideration of anatomy and physiology essential to an understanding of diseases of farm animals. Special emphasis is given to the physiology of digestion and absorption. Elective for students in Agriculture. A prerequisite for Veterinary Hygiene 491.

333, 334. Veterinary Pharmacology. (3-3, 3-3). Credit 4 each semester.
Metrology; history of therapeutics; sources and composition of drugs; methods of administration; factors influencing the actions of drugs; posology; prescription writing; drugs affecting the various tissues and organs of the body. The practice consists of identification of crude drugs; extractions of drug constituents; manufacture of types of official and a few nonofficial preparations; prescription compounding; chemic, pharmaceutic and biologic assay methods; actions of drugs on experimental animals. Prerequisite: Veterinary Physiology 222, Veterinary Pathology 242.

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 207.
Elective for students in Science and Physical Education.

342. General Physiology. (3-4). Credit 4. II
Physiology of digestion, nutrition, metabolism, secretion, excretion, endocrines, and reproduction. Prerequisite: Chemistry 301, 302.
Elective for students in Science.

432. Veterinary Toxicology. (1-4). Credit 2. II
Causes, symptoms, lesions, prevention, and treatment of poisoning by organic and inorganic poisons, and poisonous plants. Practice consists of analyses of the more common organic and inorganic poisons; actions and treatment of poisons on experimental animals. Prerequisite: Veterinary Pharmacology 334, Veterinary Clinic 471, and Veterinary Hygiene 493.

FOR GRADUATES

501, 502. Advanced Animal Physiology. (3-4). Credit 4 each semester.
Recent phases of physiology; modern experimental methods. The work is arranged

in accordance with the previous training of the student. Prerequisite: Veterinary Physiology 322 or its equivalent; basic courses in morphology and organic chemistry.

505, 506. Advanced Poisonous Plants. (3-4). Credit 4 each semester.

Original investigations and detailed studies of poisonous plants and their effects on domestic animals. Prerequisite: Veterinary Physiology and Pharmacology 432.

507, 508. Advanced Veterinary Pharmacology. (3-4). Credit 4 each semester.

Modern methods of research in pharmacology and pharmaceutical processes. Original research in studying the actions and uses of drugs. Prerequisite: Veterinary Pharmacology 333, 334.

509, 510. Advanced Veterinary Physiology. (3-4). Credit 4 each semester.

A detailed study of specific phases of physiology of domestic animals. Prerequisite: Veterinary Physiology 222; Veterinary Anatomy 211, 213, 214.

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, 1939, the Station System received $357,883 State appropriations; and $220,694.16 Federal funds for the year ending June 30, 1939.

Main Station

Veterinary Science—The division of Veterinary Science conducts researches covering the diseases of farm animals of various kinds. Special attention is being given to diseases affecting horses, mules, cattle, shep, goats, and swine.

Chemistry—The division of Chemistry conducts researches relating to feeding stuffs, soils, fertilizers, irrigation waters, minerals, paints, and miscellaneous analyses; the analysis of feeding stuffs for the Feed Control Service; and the enforcement of the State law regulating the sale of commercial fertilizers. The Chief of the division is also State Chemist.

Horticulture—The division of Horticulture conducts investigations relating to fruits, vegetables, and ornamental trees and shrubs, and the introduction and propagation of new and promising varieties of fruits, vegetables and shrubs from foreign countries.

Range Animal Husbandry—The division of Range Animal Husbandry conducts investigations in the breeding, management, feeding, and grazing of range animals, such as sheep, Angora goats, and cattle. Special attention is being paid to inheritance and scientific breeding as related to the improvement of specially adapted types of animals and to the improvement of wool and mohair. The division operates the wool and mohair scouring plant which is located at the Main Station. Substations 7, 10, and 14 are used extensively for researches relating to range animal husbandry.

Soil 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 reconaissance soil survey of the entire State of Texas, by counties and areas. Soil surveying is merely the recording of the soil resources by types, 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 has 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 and field laboratories, owned and operated by the Station System, are, as the name implies, subordinate to the work 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. Credit 1 to 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.

Horticulture 571, 572. Research in Horticulture. (3-4).

Poultry Husbandry 571. Cooperative Study of Poultry Nutrition. Credit 2 to 6.

Rural Sociology 571, 572. Research Methods. (2-6).

Veterinary Parasitology 571, 572. Veterinary Parasitology. Credit 2 to 4.

Fish and Game Conservation 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 Experiment Station.

Forty-six 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 and 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 285 county agricultural agents and 202 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 76 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 Industrial College. Three men and two women in administrative positions with a field force of 76 Negro agricultural and home demonstration agents consitute 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, corporations, and individuals in preparing plans for the protection, management, and replacement of trees, wood lots, and timber tracts.

The State is authorized to accept gifts of land to be used to demonstrate the practical utility of timber culture, water conservation and as refuges for game. The Board of Directors has the power to purchase 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-Students' Association of A. and M. College to be used as a student loan fund. A fifth State Forest of 117 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 $133,000.00 of State funds and $48,423.00 of Federal funds are available for carrying on the designated activities of the office. The personnel comprises 13 technical foresters, 2 educational assistants, 1 law enforcement agent, 1 maintenance engineer, 1 assistant maintenance engineer, 5 inspectors, 60 patrolmen, 7 lookoutmen, 15 smokechasers, 74 emergency patrolmen, 63 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 five state Forest areas, described above as research and demonstration centers, falls in this division. The Division also has charge of the two forest tree nurseries on State Forests No. 1 and No. 2. These nurseries produce mostly one-year-old pine stock for planting idle lands. The trees are sold at the cost of producing them.

DIVISION OF FOREST RESEARCH

Under the activities of this division come the establishment and study of forest research projects on State Forest Land and on other areas in cooperation with the landowner. Major projects include studies of forest plantations, tree growth, wood preservation, effects of forest fires, meteorological investigations, and forest yields in natural and thinned stands.

DIVISION OF COOPERATIVE INDUSTRIAL FORESTRY

This division cooperates with the owners of large tracts of timber land to help them in developing better forest management practices. The division also devotes a portion of its time to finding uses for wood waste materials and inferior species, as well as to promoting closer and better utilization of the present usable forest species.

DIVISION OF FOREST EDUCATION

Preparation of bulletins, circulars, posters, news releases, and conducting other general educational activities come in this division. Twenty-six bulletins have been issued dealing with practically all phases of Texas forestry, and in addition a large number of forestry circulars have been prepared and published. Requests for forestry publications should be addressed to Director, Texas Forest Service, College Station, Texas.

OFFICE OF THE STATE ENTOMOLOGIST

F. L. THOMAS, State Entomologist

By act of the Legislature the entomologist of the Texas Agricultural Experiment Station is ex-officio State Entomologist and is charged with enforcing the law of the State relative to diseases of bees. This law provides for the protection of honey bees against foulbrood and other contagious diseases and empowers the State entomologist to issue regulations as may be necessary to control, eradicate, or prevent the introduction, spread, or 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 RESEARCH UNIT

WALTER P. TAYLOR, Senior Biologist, In Charge

The Texas Cooperative Wildlife Research Unit 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 Unit, 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 divisions.

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 inspector, 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, both by actual drills and by slow motion training films using 16 mm. projector. 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 approximately 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 firefighting 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

In 1919 the Department of Electrical Engineering broadcast by code a play by play description of a football game played on Kyle field. This was one of the first athletic broadcasts to be put on the air.

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 11:45 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 1939 Summer Session opens Tuesday, June 6, and closes Saturday, August 26. 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 entire calendar year. Students of the regular session, teachers, and others, are thus given 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 1938-39

GRADUATE STUDENTS

Allen, L. Q. ..... Rural Sociology ..... Austin
B. S., East Texas State Teachers College, 1926.

Anderson, W. K. ..... Chemistry ..... College Station
B. S., Agricultural and Mechanical College of Texas, 1938.

Andrews, R. V. ..... Chemistry ..... Portland, Oregon
B. S., Oregon State College, 1938.

Baccus, I. B. ..... Electrical Engineering .... Stillwater, Okla.
B. S., Agricultural and Mechanical College of Texas, 1924.

Bain, D. C. ..... Biology ..... Bryan
B. A., University of Tennessee, 1936.

Beachell, H. M. ..... Genetics ..... Beaumont
B. S., University of Nebraska, 1930.

Bell, C. L. ..... Animal Husbandry ..... McDonald, Kansas
B. S., Kansas State College, 1937.

Benson, F. J. ..... Civil Engineering ..... College Station
B. S., Kansas State Univers'ty, 1935.

Berry, A. W. ..... Accounting and Statistics .... Canton, Miss.
B. S., Mississippi State College, 1939.

Berti, A. L. ..... Municipal and Sanitary Engineering ..... Bocono, Trujillo
Graduate of University Central, Caracas, Venezuela, 1936.

Betts, A. L. ..... Electrical Engineering ..... Hico
B. S., Agricultural and Mechanical College of Texas, 1938.

Bhawani, D. H. ..... Agronomy ..... Hyderabad, India
B. S., Bombay University, 1938.

Bills, J. H. ..... Education ..... Dawson
B. S., Agricultural and Mechanical College of Texas, 1938.

Bishop, D. R. ..... Agricultural Economics ..... Kingsville
B. S., Texas College of Arts and Industries, 1937.

Blackhurst, H. T. ..... Biology ..... Cass, W. Virginia
A. B., Glenville, W. V., State Teachers College, 1935.

Blair, P. J. ..... Agricultural Economics .... College Station
B. S., Agricultural and Mechanical College of Texas, 1937.

Blodgett, Morris ..... Physics ..... Fairwater, Wisconsin
B. A., Ripon, Wis., College, 1938.

Blumberg, A. A. ..... Mathematics ..... College Station
B. A., University of Texas, 1929; M. S., Agricultural and Mechanical College of Texas, 1938.

Bonilla, R. A. ..... Agronomy ..... Rio Piedras, Puerto Rico
B. S., University of Puerto Rico, 1935.

Brewer, L. E. ..... Wild Game ..... Bryan
B. S., Stephen F. Austin State Teachers College, 1938.

Brown, E. E. ..... Biology ..... College Station
B. S. Agricultural and Mechanical College of Texas, 1937.

Caraway, P. A. ..... Biology ..... Goldthwaite
B. S., Agricultural and Mechanical College of Texas, 1938.

Carpenter, S. E. ..... Dairy Husbandry ..... Cumby
B. S., East Texas State Teachers College, 1936.

Carter, C. W. ..... Agronomy ..... Hawley
B. S., Agricultural and Mechanical College of Texas, 1938.

Cather, H. M. ..... Mechanical Engineering ..... Morgantown, W. Va.
B. S., Agricultural and Mechanical College of Texas, 1917.

Cazell, G. F. ..... Economics ..... Bryan
B. A., Agricultural and Mechanical College of Texas, 1937.

Chandiramani, S. V. ..... Genetics ..... Hirabad, Sind. India
B. S., University of Bombay, 1938.
Chaney, J. G. ..... Mathematics ..... Bryan
M. A., University of Texas, 1930.
Chism, P. L. ..... Education ..... Paris
B. S., East Texas State Teachers College, 1934.
Christodoulo, T. G. ..... Textile Engineering ..... College Station
B. S., Georgia Technological Institute, 1933.
Clark, D. G. ..... Physics ..... Derry Village, N. H.
B. A., Park College, Parkville, Mo., 1938.
Clarkson, M. B. ..... Mathematics and Physics ..... Waco
A. B., Baylor University, 1938.
Coleman, Henry S. ..... Wild Game ..... Pioche, Nevada
B. S., University of Utah, 1938.
Cook, A. H. ..... Wild Game ..... Homer, New York
B. S., Cornell University, 1938.
Couch, J. R. ..... Chemistry ..... College Station
M. S., Agricultural and Mechanical College of Texas, 1934.
Counts, W. M. ..... Accounting and Statistics ..... Fort Worth
B. S., Agricultural and Mechanical College of Texas, 1938.
Czarowitz, P. H. ..... Economics ..... Bryan
B. A., Southwestern University, 1933; M. S., Agricultural and Mechanical College of Texas, 1939.
Dana, B. R. ..... Animal Husbandry ..... College Station
B. S., Iowa State College, 1935; M. S., Agricultural and Mechanical College of Texas, 1937.
Danforth, Joe J. ..... Accounting and Statistics ..... Bryan
B. A., Agricultural and Mechanical College of Texas, 1933.
Davis, J. W. ..... Agronomy ..... Lamesa
B. S., Agricultural and Mechanical College of Texas, 1937.
Dixon, R. M. ..... Chemical Engineering ..... Dallas
B. S., Agricultural and Mechanical College of Texas, 1928.
Dodson, R. J. ..... Chemistry ..... Decatur
B. S., Agricultural and Mechanical College of Texas, 1935.
Durst, N. D. ..... Accounting and Statistics ..... Art
B. A., Southwestern University, 1936.
Edmondson, T. L. ..... Agronomy .....San Saba
B. S., Agricultural and Mechanical College of Texas, 1938.
Fix, R. E. ..... Chemical Engineering ..... Dallas
B. S., Agricultural and Mechanical College of Texas, 1938.
Fleming, D. W. ..... Industrial Education ..... College Station
B. S., Agricultural and Mechanical College of Texas, 1930.
Fletcher, Lane ..... Dairy Husbandry ..... New Verda, La.
B. S., Southwestern Louisiana Institute, 1937.
Forrest, R. C. ..... Agricultural Engineering ..... Muskogee, Oklahoma
B. S., Oklahoma Agricultural and Mechanical College, 1938.
Foster, E. L. ..... Genetics ..... Bryan
B. S., Agricultural and Mechanical College of Texas, 1938.
Fry, Gerald J. ..... Landscape Art ..... Bryan
B. S., Texas College of Arts and Industries, 1934.
Gaskell, R. L. ..... Chemical Engineering ..... Dallas
B. S., Agricultural and Mechanical College of Texas, 1938.
Gauntt, W. C. ..... Municipal and Sanitary Engineering ..... Rochester
B. S., Hardin-Simmons, 1936.
Glasgow, R. B. ..... Economics ..... College Station
B. A., Agricultural and Mechanical College of Texas, 1937.
Glazener, W. C. ..... Wild Game ..... Stanton
B. S., Texas College of Arts and Industries, 1929.
Graham, Hugh ..... Entomology ..... Thorndale
B. S., Agricultural and Mechanical College of Texas, 1938.
Graves, J. R. ..... Civil Engineering .... Ruby, South Carolina
B. S., The Citadel, 1934.
Gulmon, G. W. ..... Geology ..... Sanborn, North Dakota
B. A., University of North Dakota, 1937.

Haggar, Charles ..... Veterinary Physiology and Pharmacology .... Sioux Falls, South Dakota
D. V. M., Agricultural and Mechanical College of Texas, 1938.

Hampton, H. E. ..... Agronomy ..... College Station
B. S., Agricultural and Mechanical College of Texas, 1937.

Harper, R. E. ..... Genetics ..... College Station
B. S., Agricultural and Mechanical College of Texas, 1936.

Hays, J. P. ..... Mechanical Engineering .... College Station
B. S., University of California, 1934.

Hazel, L. N. ..... Genetics ..... College Station
B. S., Texas Technological College, 1933; M. S., Agricultural and Mechanical College of Texas, 1938.

Heaton, H. L. ..... Education ..... College Station
B. S., Stephen F. Austin State Teachers College, 1929; M. S., Agricultural and Mechanical College of Texas, 1936.

Hebert, Martin ..... Electrical Engineering ..... Port Arthur
B. E., Tulane University, 1936.

Hickerson, J. C. ..... Agronomy ..... Rosebud
B. S., Agricultural and Mechanical College of Texas, 1938.

Hinds, R. S. ..... Biology ..... Northfield, Minnesota
B. A., St. Olaf College, 1937.

Hirst, P. A. ..... Civil Engineering ..... Casper, Wyoming
B. S., University of Wyoming, 1938.

Hobgood, Price ..... Agricultural Engineering ..... Iredell
B. S., Agricultural and Mechanical College of Texas, 1938.

Hodgman, R. F. ..... Geology ..... White Bear Lake, Minnesota
E. M., University of Minnesota, 1938.

Howard, J. N. ..... Economics ..... College Station
B. A., Agricultural and Mechanical College of Texas, 1938.

Howe, R. H. ..... Geology ..... Portsmouth, Ohio
G. E., University of Cincinnati, 1938.

Hoyer, H. E. ..... Electrical Engineering .... Sioux City, Iowa
B. S., University of South Dakota, 1927.

Hughes, R. H. ..... Genetics ..... College Station
B. S., Agricultural and Mechanical College of Texas, 1937.

Jackson, J. B. ..... Agronomy ..... College Station
B. S., Agricultural and Mechanical College of Texas, 1938.

James, C. P. ..... Municipal and Sanitary Engineering .. Waco
B. S., Agricultural and Mechanical College of Texas, 1938.

James, L. E. ..... Biology ..... College Station
B. S., Agricultural and Mechanical College of Texas, 1936.

Johnson, G. N. ..... Geology ..... Bryan
B. S., Agricultural and Mechanical College of Texas, 1938.

Jones, P. V. ..... Wild Game ..... Amarillo
B. A., Texas Technological College, 1937.

Kagan, Martin ..... Entomology ..... Stillwater, Oklahoma
B. S., Oklahoma Agricultural and Mechanical College, 1938.

Kay, J. T. ..... Agronomy ..... Tyler
B. S., Sam Houston State Teachers College, 1938.

Keim, S. T. ..... Economics ..... Denton
B. A., Agricultural and Mechanical College of Texas, 1938.

Kellog, W. H. ..... Wild Game ..... Bryan
B. F., University of Michigan, 1934.

King, J. N. ..... Electrical Engineering .. Williamston, S. C.
B. S., Clemson Agricultural College, 1938.

Klossner, R. O. ..... Mechanical Engineering ..... Edinburg
B. S., Agricultural and Mechanical College of Texas, 1938.

Knezevich, Milan ..... Chemical Engineering .... Portland, Oregon
B. S., Oregon State College, 1938.

Krueger, W. A. ..... Agricultural Economics .... College Station
B. A., University of Texas, 1927.

Laird, Vester ..... Agricultural Economics ..... College Station
B. S., Agricultural and Mechanical College of Texas, 1938.

Langdale, F. D. ..... Civil Engineering ..... Galveston
B. S., Texas Technological College, 1938.

Langridge, C. R. ..... Agricultural Engineering ..... Commerce
B. A., East Texas State Teachers College, 1933; B. S., Agricultural and Mechanical College of Texas, 1939.

Lapham, L. G. ..... Physics ..... College Station
B. S., Agricultural and Mechanical College of Texas, 1929.

Leach, N. E. ..... Agricultural Engineering ..... Center, Miss.
B. S., Mississippi State College, 1937.

Lee, D. R. ..... Chemistry ..... Houston
B. S., Tennessee State Teachers College, 1937.

Lehmann, V. W. ..... Wild Game ..... Brenham
B. B. A., University of Texas, 1934.

Levin, Frank ..... Dairy Husbandry ..... Brenham
B. S., Agricultural and Mechanical College of Texas, 1935.

Liao, S. C. ..... Horticulture ..... Lun-nan, China
B. S., Nashville, Tennessee, Agricultural Normal Institute, 1938.

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

Logan, G. A. ..... Agricultural Economics .... College Station
B. S., Agricultural and Mechanical College of Texas, 1935.

Loveless, S. L. ..... Agricultural Economics ..... Coolidge
B. S., Agricultural and Mechanical College of Texas, 1938.

Lowrey, R. D. ..... Accounting and Statistics .... College Station
B. A., Texas Technological College, 1932.

McCarthy, G. P. ..... Poultry Husbandry ..... Bryan
B. S., Agricultural and Mechanical College of Texas, 1929.

McCulloch, G. R. ..... Agricultural Economics .... College Station
B. S., Agricultural and Mechanical College of Texas, 1938.

McDonald, A. P. ..... Industrial Education ..... Bryan
B. S., Agricultural and Mechanical College of Texas, 1930.

McGee, R. V. ..... Mathematics ..... Bryan
B. S., Agricultural and Mechanical College of Texas, 1922; M. S., 1938.

McGregor, W. S. ..... Biology ..... Temple
B. S., Agricultural and Mechanical College of Texas, 1939.

McIlroy, H. S. ..... Agronomy ..... Tolar
B. S., Agricultural and Mechanical College of Texas, 1937.

McKennon, C. B. ..... Agricultural Economics ..... Schulenburg
B. S., Agricultural and Mechanical College of Texas, 1937.

McWhorter, J. C. ..... Agricultural Engineering ..... Spartanburg, S. C.
B. S., Clemson Agricultural College, 1937.

Malone, M. S. ..... Agronomy ..... Ballinger
B. S., Agricultural and Mechanical College of Texas, 1937.

Martin, H. C. ..... Economics ..... Mason
B. S., Agricultural and Mechanical College of Texas, 1938.

Mertz, E. R. ..... Mechanical Engineering .... College Station
B. S., Missouri School of Mines, 1933; M. S., Agricultural and Mechanical College of Texas, 1939.

Mir, A. F. ..... Horticulture ..... Jhudo, India
B. S., Reading University, 1938.

Monroe, W. R. ..... Physics ..... Waco
B. A., Baylor University, 1938.

Montfort, P. T. ..... Agronomy ..... College Station
B. S., Agricultural and Mechanical College of Texas, 1921.

Moody, R. V. ..... Industrial Education ..... Point
B. S., East Texas State Teachers College, 1939.

Moore, O. H. ..... Mechanical Engineering ..... Dallas
B. S., Agricultural and Mechanical College of Texas, 1926.

Moore, W. D. ..... Agricultural Education ..... Longview
B. S., Mississippi State College, 1922.

Mueller, L. A. ..... Mechanical Engineering ..... Roscoe
B. S., Texas Technological College, 1938.

Mullins, B. F. K. ..... Civil Engineering ..... Bryan
A. B. Emory, 1919; M. S., 1922; M. R. E., Southwestern Baptist Theological Seminary, 1928.

Murphey, C. E. ..... Animal Husbandry ..... College Station
B. S., Kansas State College, 1935; M. A. University of Missouri, 1936.

Nabors, A. L. ..... Agronomy ..... College Station
B. S., East Texas State Teachers College, 1937.

Nelson, A. M. ..... Mechanical Engineering .... College Station
B. S., University of Illinois, 1938.

Newman, Coleman C. ..... Wild Game ..... Iredell
B. S., Sul Ross State Teachers College, 1936.

Norwood, R. T. ..... Agricultural Economics ..... Mart
B. S., Agricultural and Mechanical College of Texas, 1936.

O'Brien, F. R. ..... Mechanical Engineering ..... Bryan
B. S., Agricultural and Mechanical College of Texas, 1935.

Orchard, J. M. ..... Agricultural Economics ..... Bryan
B. S., Texas College of Arts and Industries, 1935; M. S., Agricultural and Mechanical College of Texas, 1936.

Orr, J. A. ..... Civil Engineering ..... College Station
B. S., Agricultural and Mechanical College of Texas, 1922; M. S., 1933.

Parnell, E. D. ..... Agricultural Economics ..... College Station
B. S., Agricultural and Mechanical College of Texas, 1923; M. S., 1934.

Patterson, R. E. ..... Genetics ..... College Station
B. S., Louisiana State University, 1934; M. S., Agricultural and Mechanical College of Texas, 1936.

Payne, W. G. ..... Education ..... Cross Plains
B. S., Agricultural and Mechanical College of Texas, 1938.

Pendery, Roger A. ..... Economics ..... Fort Worth
B. A., Agricultural and Mechanical College of Texas, 1938.

Peterson, R. K. ..... Animal Husbandry ..... Meuston, Utah
B. S., Utah State Agricultural College, 1937.

Rackley, F. B. ..... Education ..... Alpine
B. S., Sul Ross State Teachers College, 1938.

Raney, A. L. ..... Accounting and Statistics ..... Burleson
B. S., Agricultural and Mechanical College of Texas, 1938.

Rawls, J. B., Jr. ..... Electrical Engineering ..... College Station
B. S., Agricultural and Mechanical College of Texas, 1934.

Rea, H. E. ..... Genetics ..... Bryan
B. S., Agricultural and Mechanical College of Texas, 1922.

Reading, R. E. ..... Mechanical Engineering ..... El Paso

Reid, D. H. ..... Poultry Husbandry ..... College Station
B. S., Wisconsin, 1919; M. S., 1922.

Rhodes, T. R. ..... Agricultural Education ..... Huntsville
B. S., Sam Houston State Teachers College, 1928.

Roberts, F. L. ..... Accounting and Statistics ..... Perryton
B. S., University of Arkansas, 1938.

Rogers, J. S. ..... Genetics ..... College Station
B. S., Agricultural and Mechanical College of Texas, 1938.

Romine, W. A. ..... Mechanical Engineering .... Muskogee, Okla.
B. S., University of Oklahoma, 1938.

Rosenberg, Morton ..... Poultry Husbandry ..... Toms River, N. J.
B. S., Rutgers University, 1938.

Ross, J. W. ..... Mathematics ..... Bryan
B. A., Texas University, 1923; M. A., 1931.

Rouse, J. T. ..... Accounting and Statistics .... College Station
B. S., Clemson Agricultural College, 1934.

Rucker, R. H. ..... Landscape Art ..... Tyler
B. S., Agricultural and Mechanical College of Texas, 1938.

Rummel, A. J. ..... Electrical Engineering ..... San Antonio
B. S., Agricultural and Mechanical College of Texas, 1926.

Runnels, R. N. ..... Agronomy ..... Broaddus
B. S., Sam Houston State Teachers College, 1938.

Sain, Carl ..... Accounting and Statistics ..... Granbury
B. S., Texas Christian University, 1933; M. S., Agricultural and Mechanical College of Texas, 1939.

Scharnberg, C. R. ..... Dairy Husbandry ..... College Station
B. S., Texas Technological College, 1936.

Schlossman, M. B. ..... Industrial Education ..... Westwood, N. J.
B. S., Carnegie Institute of Technology, 1936.

Schoenfeld, P. C. ..... Geology ..... San Antonio
B. S., Agricultural and Mechanical College of Texas, 1938.

Sellner, Edward ..... Civil Engineering ..... College Station
B. S., Case School of Applied Science, 1935; M. S., Agricultural and Mechanical College of Texas, 1937.

Shannon, R. R. ..... Rural Sociology ..... Normangee
B. S., Agricultural and Mechanical College of Texas, 1934.

Shone, L. A.,II ..... Landscape Art ..... College Station
B. S., Agricultural and Mechanical College of Texas, 1934.

Sikes, J. H. ..... Entomology ..... College Station
B. A., Abilene Christian College, 1922; M. S., Agricultural and Mechanical College of Texas, 1931.

Simmang, C. M. ..... Mechanical Engineering ..... San Antonio
B. S., Agricultural and Mechanical College of Texas, 1936.

Slaughter, J. C. ..... Biology ..... Bryan
B. S., Agricultural and Mechanical College of Texas, 1937.

Smith, Manning ..... Chemistry ..... College Station
B. S., Centenary College, 1934.

Smith, William S. ..... Agricultural Economics .... College Station
B. S., North Texas State Teachers College, 1928.

Sowers, J. C. ..... Landscape Art ..... Huntsville
B. S., Sam Houston State Teachers College, 1931; M. S., Agricultural and Mechanical College of Texas, 1936.

Sparks, R. E., Jr. ..... Agricultural Economics ..... Foard City

Spencer, H. C. ..... Architecture ..... College Station
B. S., Baylor University, 1929; M. S., Agricultural and Mechanical College of Texas, 1931.

Stevens, A. B. ..... Petroleum Engineering ..... Bryan
M. S., University of Southern California, 1932.

Stubbs, S. M. ..... Accounting and Statistics ..... Bryan
B. S., Agricultural and Mechanical College of Texas, 1934.

Taber, F. W. ..... Wild Game ..... San Diego, California
B. A., University of California, 1937.

Terrell, T. H. ..... Civil Engineering ..... College Station
B. S., Agricultural and Mechanical College of Texas, 1934.

Thadani, M. R. ..... Agricultural Economics ..... Hirabad, India
B. A., Agra University, India, 1937.

Thiegs, B. J. ..... Chemistry ..... Bowman, North Dakota
B. S., North Dakota Agricultural College, 1935.

Thompson, G. C. ..... Accounting and Statistics .... Holbrook, Ariz.
A. B., Arizona State College, 1938.

Thompson, L. M. ..... Agronomy ..... College Station
B. S., Agricultural and Mechanical College of Texas, 1935.

Thompson, T. B. ..... Architecture ..... San Antonio
B. S., Agricultural and Mechanical College of Texas, 1930.

Tillman, H. A. ..... Dairy Husbandry ..... Paris
B. S., Rhode Island State College, 1937.

Tinney, W. H. ..... Dairy Husbandry ..... Bowie
B. S., Texas Technological College, 1938.

Tisdale, E. E. ..... Geology ..... Grand Forks, North Dakota
B. A., University of North Dakota, 1937.

Toombs, A. J. L. ..... Chemical Engineering ..... Dallas
B. S., Agricultural and Mechanical College of Texas, 1938.

Turk, R. D. ..... Biology ..... Bryan
D. V. M., Kansas State College, 1933; M. S., Agricultural and Mechanical College of Texas, 1939.

Walker, A. G., Jr. ..... Electrical Engineering ..... Roanoke, Va.
E. E., Virginia Polytechnic Institute, 1938.

Warner, G. C. ..... Genetics ..... College Station
B. S., Agricultural and Mechanical College of Texas, 1937.

Watts, Rex E. ..... Dairy Husbandry ..... Havensville, Kansas
B. S., Kansas State College, 1937.

White, C. G. ..... Physical Education ..... Bryan
B. S., Agricultural and Mechanical College of Texas, 1935.

Wiley, W. H. ..... Genetics ..... College Station
B. S., Agricultural and Mechanical College of Texas, 1936; M. S., 1937.

Wilke, M. E. ..... Physics ..... Ripon, Wisconsin
B. A., Ripon College, 1938.

Williams, John Howard ..... Electrical Engineering ..... Mayaquez, P. R.
B. S., Purdue University, 1938.

Williams, U. H. ..... Genetics ..... Mayaquez, Puerto Rico
B. S., Agricultural and Mechanical College of Puerto Rico, 1936.
Williamson, M. N. ..... Accounting and Statistics ..... Rochelle
B. S., Agricultural and Mechanical College of Texas, 1937; M. S., 1939.
Winegar, A. H. ..... Animal Husbandry ..... Ames, Iowa
B. S., Iowa State College, 1935.
Woolard, S. B. ..... Electrical Engineering .. Robersonville, N. C.
B. S., North Carolina State College, 1938.
Wright, H. E. ..... Horticulture ..... College Station
B. S., Agricultural and Mechanical College of Texas, 1934.
Wright, S. R. ..... Municipal and Sanitary Engineering ..... College Station
B. S., Agricultural and Mechanical College of Texas, 1922.
Zeller, P. J. A. ..... Chemistry ..... College Station
B. S., Massachusetts Institute of Technology, 1922.

UNDERGRADUATE STUDENTS

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
EA—Engineering Administration
GE—Geological Engineering
IE—Industrial Education
Land—Landscape 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—Senior
3—Junior
2—Sophomore
1—Freshman
Spec—Special

Aaron, Edward, 2 VM .... Brooklyn, N. Y.
Abbott, John A., 1 ME ..... Corpus Christi
Abbott, Robert H., Jr., 1 PetE-ME ..... San Antonio
Abel, L. J., 1 PetE ..... Gladewater
Abernathy, A. H., Jr., 3 ME ..... Monterrey, Mex.
Abshier, J. L., 1 ME ..... Hankamer
Acker, Voscoe, 4 PetE ..... Velasco
Adami, R. W., 2 VM .... San Fernando, Cal.
Adams, A. K., 3 AA ..... San Antonio
Adams, Billy J., 2 AA ..... Bellaire
Adams, Benjamin Q., 2 ME ..... Temple
Adams, C. B., 3 Agr ..... Alpine
Adams, F. B., 1 CM ..... Corpus Christi
Adams, Geo. A., 1 AA ..... Bryan
Adams, G. B., 3 VM ..... College Station
Adams, Horace L., 4 Agr ..... LaFeria
Adams, Joseph B., 4 VM ..... Bryan
Adams, J. K., 2 Agr ..... Tulia
Adams, J. L., 3 Agr ..... Tulia
Adams, L. J., 3 PetE ..... Corpus Christi
Adams, Luther L., 2 Agr ..... North Zulch
Adams, Morris R., 1 AA ..... Houston
Adams, Raymond C., 1 LA .... Coppers Cove
Adams, Robert C., 1 LA .... Coppers Cove
Adams, Rob L., 3 PetE ..... Mabank
Adams, R. M., 4 ChE ..... Honey Grove
Adams, W. A., 3 EE ..... College Station
Adams, W. B., 1 EE ..... Nacogdoches
Adamson, A. D., 4 LA ..... Houston
Adkisson, James F., Jr., 4 PetE .. Greenville
Adkisson, J. W., 1 Land ..... Greenville
Adrian, J. L., 3 VM ..... Girvin
Ainsworth, I. V., 2 ArchE ..... Lubbock
Ainsworth, P. H., 4 AA ..... Beaumont
Akard, W. H., Jr., 3 AA ..... Grapevine
Akarman, T. H., 1 LA ..... Lubbock
Akin, B. F., 2 PetE ..... Dallas
Albrecht, A. B., 2 LA ..... Yoakum
Albrecht, H. C., 3 AgEd ..... Pottsville
Albrecht, W. C., 4 PetE ..... Yoakum
Albright, J. O., 2 ME ..... Mobile, Ala.
Aldrich, C. H., 4 AA ..... Wichita Falls
Aldrich, E. W., 3 Sci ..... San Antonio
Aldrich, L. M., 2 AA ..... Temple
Aldridge, E. E. 3 PetE ..... San Antonio
Alexander, C. E., 1 ME ..... Damon
Alexander, G. M., 1 Agr ..... Paris
Alexander, H. R., 1 PetE .... Shreveport, La.
Alexander, J. M., 4 PetE ..... Damon
Alexander, J. O., Jr., 1 Agr ..... Bryan
Alexander, R. W., 2 PetE ..... Paris
Alexander, U. M., Jr., 4 AA ..... Ft. Worth
Alford, Halcut, 1 AA ..... Mumford
Alford, H. V., 1 ME ..... Port Arthur
Alger, W. K., 1 LA ..... Crystal City
Algier, R. J., Sp. Gen. ..... Buenos Aires, Argentina
Albright, C. F., 1 Agr ..... San Marcos
Albritton, L. E., 1 LA ..... Houston
Allredge, Bud E.,2 VM ..... Sweetwater
Allen, A. H., 4 Agr ..... Eddy
Allen, A. J., 4 CE ..... Wills Point
Allen, C. D., 1 PetE ..... Deweyville
Allen, H. B., 3 Sci ..... Brownwood
Allen, J. B., 4 Agr ..... Hull
Allen, James H., 2 Agr ..... Beaumont
Allen, J. H., 1 ME ..... Dallas
Allen, J. W., 4 Sci ..... Kaufman
Allen, J. Wilson, 1 Agr ..... Navasota
Allen, N. B., 1 LA ..... Bryan
Allen, Ocie C., 4 CE ..... Albany
Allen, O. G., 1 AA ..... Dallas
Allen, W. B., 2 ME ..... Lockney
Allen, W. E., 1 Arch ..... Angleton
Allison, C. J., 1 Agr ..... Carthage
Allison, F. M., 1 Agr ..... Corsicana
Allison, G. T., 4 AA ..... Carthage
Allman, J. C., 1 PetE ..... Marlin
Allyn, Fred E., 1 Agr ..... Cisco
Alsobrook, A. D., 2 AA ..... Brenham
Altgelt, G. A., 1 ME ..... Navasota
Ambler, R. G., 1 ME ..... Three Rivers
Ambrose, W. D., Jr., 1 PetE .... Ft. Worth
Amundsen, E. G., 2 ChE ..... Galveston
Amyx, J. W., Jr., 1 PetE ..... Burkburnett
Anders, P. E., 1 PetE ..... Newgulf
Andersen, Mads C., 3 CE ..... Danevang
Anderson, A. E., 1 CE ..... Galveston
Anderson, B. R., Jr., 2 CE ..... Houston
Anderson, C. A., 2 PetE ..... Batson
Anderson, C. D., 1 CE ..... San Antonio
Anderson, E. L., 2 CM ..... Bryan
Anderson, G. D., 2 AA ..... Farwell
Anderson, H. M., 2 IE ..... Lometa
Anderson, J. E., 1 PetE ..... Brookston
Anderson, J. T., 2 Agr ..... Mesquite
Anderson, J. W., Jr., 1 PetE ..... Houston
Anderson, M. B., 2 LA ..... Beaumont
Anderson, P. W., 4 AA ..... Marshall
Anderson, W. M., 1 LA ..... Amarillo
Anderson, W. R., Jr., 1 LA .... Agua Dulce
Anderwald, F. R., 1 Agr ..... Bandera
Ando, Tomomi, 1 Sci ..... Almeda
Andrewartha, E. E., Jr., 1 EE .... Lockhart
Andrews, D. K., 2 ME ..... Dallas
Andrews, J. A., 2 TE ..... North Zulch
Andrews, J. D., 1 AA ..... Longview
Andrus, W. H., 2 VM .... College Station
Anthony, W. G., 2 AgEd ..... Naples
Aono, Souichi, 1 ME ..... Houston
Appelt, L. L., 2 ME ..... Hallettsville
Appleby, Aaron, 3 VM ..... Yonkers, N. Y.

Ard, J. C., 1 ME ..... Mt. Pleasant
Ardis, W. H., 1 ChE ..... Graham
Arendale, J. M., Jr., 4 Sci ..... Houston
Arfman, H. W., 1 AA ..... Del Rio
Arisco, M. J., 1 ChE ..... Port Arthur
Arisco, Sam, 1 ChE ..... Port Arthur
Armand, W. K., 1 PetE ..... Houston
Armistead, J. D., 2 LA ..... Houston
Armstrong, C. E., 4 Agr ..... El Paso
Armstrong, G. D., 3 Agr ..... Hartley
Armstrong, L. R., 4 AgEd ..... Sidney
Armstrong, R. W., 4 Agr ..... El Paso
Arnett, B. E., 1 ME ..... Ft. Worth
Arnold, C. E., 1 ChE ..... Pearsall
Arnold, E. Y., 4 AA ..... Greenville
Arnold, R. L., 1 ME ..... Eastland
Arnold, T. A., 1 AgEng ..... Orange
Arsuaga, Alfonso, 4 AgEng ..... San Juan, Perto Rico
Arthur, W. F., 1 AgEd ..... Itasca
Ash, J. L., 1 AA ..... Madisonville
Ashby, J. B., 2 LA ..... Ft. Worth
Ashford, Fred, Jr., 1 EE ..... Longview
Ashford, J. T., 4 PetE ..... Longview
Ashwander, R. E., 2 Agr ..... Lometa
Ashworth, J. B., 3 AgEng ..... LaFeria
Ashworth, J. G., 1 PetE ..... Canton
Ashworth, J. O., 1 AA ..... Bryan
Aston, H. P., 4 PetE ..... Farmersville
Atchison, V. B., 1 AA ..... Frisco
Atkins, J. M., Jr., 3 AA ..... Denton
Atkins, L. C., 2 AgEd ..... Bryan
Atkinson, W. H., 4 Agr ..... Crockett
Atlee, T. G., 4 EE ..... Kaufman
Ator, L. G., 3 Agr ..... Stephenville
Attaway, H. H., 2 ME ..... Waco
Aucoin, W. J., 1 EE ..... Port Arthur
Audish, William, 2 Agr ..... Brenham
Aughtry, J. D., 4 Agr ..... Valley View
Austin, H. L., 1 EE ..... Carlsbad
Austin, Merton E., 3 PetE ..... Palestine
Auvermann, Arthur, 1 ME ..... Ft. Worth
Avery, Earl L., Jr., 1 AA ..... Llano
Ayala, O. R., Gr Agr. & Gen, Saltillo, Mex.
Aycock, J. N., 1 Agr ..... San Angelo
Aycock, J. W., 2 ChE ..... Sweetwater
Aycock, T. P., 2 Agr ..... Rosebud
Ayers, R. E., 2 ME ..... Slaton
Ayers, W. M., 1 Sci ..... Seguin
Ayres, R. O., 1 ME ..... Houston
Azar, Shibley, 1 AA ..... El Paso
Babasin, Y. H., 2 Sci ..... Vernon
Babcock, C. V., 2 CE ..... Ft. Davis
Badger, E. C., 1 ME ..... Port Arthur
Badgett, L. J., 1 AgEng ..... Whitewright
Baether, C. H., 1 AgEd ..... Houston
Baggaley, R. W., 1 ChE .... Aruba, N. W. I.
Baggett, Ele B., 2 Agr ..... Ozona
Baggett, Jack, 1 AA ..... Ozona
Bahn, R. A., 2 Sci ..... South Bend
Bailey, C. R., 2 Arch ..... Lampasas
Bailey, E. L., 1 PetE ..... El Paso
Bailey, J. A., 4 ME ..... Fort Worth
Bailey, Jack B., 1 PetE ..... Dallas
Bailey, J. W., Jr., 3 Agr ..... Lancaster
Bailey, John William, 3 ME ..... Sherman
Bailey, R. M., 4 GE ..... Houston
Bain, B. T., 3 EE ..... Waco
Bain, L. C., 1 ME ..... Port Arthur
Baines, J. C., 1 PreVet ..... San Antonio
Baird, C. F., 2 Agr ..... Carlton
Baird, J. P., 2 PetE ..... Cleburne
Baird, J. R., 1 AgEd ..... Hereford
Baird, R. E., 4 ArchE ..... Dallas
Baker, A. L., 2 ChE ..... Abilene
Baker, A. O., 4 Agr ..... Comstock
Baker, C. F., 3 AgEd ..... Weatherford
Baker, C. K., 1 Agr ..... Corsicana
Baker, C. L., Jr., 1 CE ..... Houston
Baker, G. E., 4 AgEd ..... Weatherford
Baker, J. E., 1 CE ..... Dallas
Baker, L. M., 2 IE ..... Abilene
Baker, W. H., 1 ME ..... Temple
Bakke, I. J., 1 ME ..... Temple
Balagia, J. M., 1 AA ..... Austin
Balch, Bob, 4 Agr ..... San Angelo
Baldwin, B. A., 4 ME ..... Dallas
Baldwin, S. J., 3 AgEng ..... Dallas
Bale, E. L., 1 AA ..... Dallas
Balfour, B. H., 3 CE ..... Tyler
Ball, Frank E., 4 Agr ..... Pattonville
Ball, John, 2 ME ..... Uvalde
Ball, W. A., Jr., 3 EE ..... Uvalde
Ballard, B. F., 1 AA ..... San Antonio
Ballard, H. C., 1 ChE ..... Von Ormy
Ballard, J. L., 1 AA ..... Von Ormy
Ballenger, W. T., 1 AA ..... San Benito
Ballman, W. E., 1 Agr ..... Riesel
Ballow, C. C., 1 Agr ..... Stephenville
Ballowe, C. B., 2 LA ..... Palestine
Balmer, T. A., 3 PetE ..... Beaumont
Balser, L. A., 4 CE ..... Lockhart
Baltz, D. M., 1 CE ..... El Paso
Bancroft, W. H., 2 ME .... Shreveport, La.
Bandy, D. M., 1 VM ..... Temple
Bane, W. F., Jr., 1 ChE ..... Dallas
Banister, A. J., 4 AgEd ..... Mt. Vernon
Banister, J. A., 2 ChE ..... Mt. Vernon
Banister, J. R., 1 LA ..... Rocksprings
Bank, W. C., 3 VM ..... Bryan
Bannister, W. L., 1 EE ..... Temple
Barker, D. S., 1 AA ..... Houston
Barker, Jabus, 1 EE ..... Sherman
Barnard, C. D., 1 PetE ..... Houston
Barnes, B. C., 3 ChE ..... Dallas
Barnes, Edward, 1 ME ..... Houston
Barnes, H. E., 1 PetE ..... McAllen
Barnes, M. H., Jr., 1 Land ..... Silver Peak, Nevada
Barnes, R. C., Jr., 4 AgEng ..... Belton
Barnes, R. D., 4 EE ..... Brenham
Barnes, V. E., 1 CE ..... Dallas
Barnett, Guy, Jr., 1 Sci ..... Vernon
Barnett, Wendell H., 4 AA ..... Abilene
Barnhill, R. P., 1 Agr ..... Crockett
Baroncini, R. L., 1 Sci ..... Galveston
Barr, Billy J., 1 AA ..... Bonham
Barr, Clinal E., 3 AA ..... Bonham
Barrantes, J. R., 1 Agr ..... Alajuela, Costa Rica
Barrett, C. D., 4 VM ..... Spur
Barrett, J. S., 1 EE ..... Dallas
Barrier, C. D., 3 AgEd ..... Canton
Barron, G. P., 2 Sci ..... Pearsall
Barron, H. T., 3 VM ..... Bryan
Barron, J. R., 2 ME ..... Wellborn
Barron, Tom W., 2 ME ..... Wellborn
Barron, W. B., 1 Agr ..... Bryan
Barrow, G. R., 1 LA ..... Sour Lake
Bartel, Arthur, 3 Arch ..... Comfort
Barthelow, A. J., 4 ChE ..... Houston
Bartlett, E. E., 4 IE ..... George West
Bartlett, J. O., 2 EE ..... Port Arthur
Barton, C. E., 1 ME ..... Somerville
Barton, J. C., 2 Agr ..... Rockwood
Barton, J. K., 3 Agr ..... Rockwood
Barton, O. E., 1 ArchE ..... Overton
Barton, R. C., 3 PetE ..... Clarksville
Barton, W. D., 4 AA ..... Dallas
Bartschmid, A. H., 1 ME ..... Marshall
Bass, F. H., 1 Sci ..... Bloomington
Bass, W. B., 1 LA ..... Houston
Bate, H. C., 2 Agr ..... San Augustine
Bates, A. C., Jr., 1 CE ..... Gatesville

Bates, Gus, 2 VM ..... Ft. Worth
Batts, J. W., 2 Sci ..... Bryan
Baucom, I. C., 2 EE ..... Mineral Wells
Baucom, J. B., 4 AgEd ..... Mineral Wells
Baugh, J. H., 2 ChE ..... Temple
Baugh, Maxwell, 2 EE ..... Dallas
Baughn, G. C., 1 EE ..... Vickery
Baumann, E. F., 4 AgEd ..... Stockdale
Baumann, Otto, Jr., 4 EE ..... Dallas
Baumgarten, A. M., 2 VM ..... Bryan
Baushausen, H. V., 3 PetE ..... Bryan
Baxter, C. K., 1 PetE ..... Sherman
Bayless, W. B., 3 AA ..... Hillsboro
Baylor, R. V., Jr., 2 IE .... College Station
Bayne, C. D., 1 CE ..... Baytown
Beauchum, J. H., 3 EE ..... Dallas
Beadle, F. F., 2 Arch ..... Houston
Beal, C. O., 1 ME ..... Port Arthur
Beal, Louis N., 2 PetE ..... Kingsville
Beam, H. C., 1 PetE ..... Beaumont
Beaman, B. C., 1 Sci ..... Houston
Beard, C. S., 1 ME ..... Lansdowne, Pa.
Beard, J. W., 1 AA ..... Blessing
Beard, L. F., 3 PetE-ME ..... Rosenberg
Beard, V. B., 1 LA ..... Broadus
Bearden, R. C., 1 ChE ..... Paris
Bearden, W. O., 1 PreVet ..... Dallas
Beasley, Lester, 1 EE ..... Omaha
Beasley, W. A., Jr., 4 PetE ..... Greenville
Beatty, C. W., 2 CM ..... Bishop
Beaty, C. B., 4 Sci ..... Lockhart
Beavers, J. M., 1 PetE ..... Mart
Beck, E. A., Jr., 1 Agr ..... Vera
Beck, R. C., 4 EA ..... Harlingen
Beck, W. J., 1 LA ..... Pecos
Becka, J. C., 4 ME ..... Temple
Becker, C. H., 1 PetE ..... Houston
Becker, G. W., 1 EE ..... Ft. Worth
Becker, W. A., 2 CM ..... Kaufman
Beckham, C. A., 3 ME ..... Dallas
Beckham, C. W., 1 ME ..... Paris
Beckham, W. R., 1 EE ..... Era
Beckman, W. L., Jr., 1 PetE .... Baytown
Beckmann, A. G., 4 AA ..... San Antonio
Beebe, Reed, 1 PetE ..... Wink
Beeler, G. B., 3 ME ..... Houston
Beene, A. G., 1 PetE ..... Gilmer
Beeson, Leigh C., 3 PetE ..... Canyon
Behnken, R. W., 1 ME ..... Houston
Behrmann, J. M., 4 Sci ..... Naples
Beinlin, P. S., 1 Agr ..... Mirando
Belinsky, Joseph, 4 VM ..... Bryan
Bell, E. C., 1 Sci ..... Big Spring
Bell, Harvey C., 4 LA ..... Caldwell
Bell, J. A., 1 ME ..... Neches
Bell, J. E., 1 ME ..... Corpus Christi
Bell, R. L., 2 AgEd ..... Garrison
Bell, T. B., 4 AA ..... Crowell
Bellamy, W. A., 1 ME ..... Golden
Bemis, N. E., 1 ME ..... Denison
Bender, C. R., 2 PetE ..... Houston
Beneventi, J. R., 3 CE ..... Mingus
Benitez, J. T., 1 Agr ..... Holguin, Cuba
Benitez, F. S., 1 Agr ..... Holguin, Cuba
Bennett, A. C., 3 AgEng ..... Mart
Bennett, C. K., 4 VM .... Hennessey, Okla.
Bennett, F. E., 2 AA ..... Fairfax, Okla.
Bennett, G. E., 1 Agr ..... Eastland
Bennett, J. D., 4 ME ..... Derby
Bennett, J. F., 4 AgEd ..... Collidge
Bennett, M. G., 4 GE ..... Carrizo Springs
Bennett, P. B., 3 Agr ..... Waxahachie
Bennett, R. O.. 1 Sci ..... Texarkana
Bennett, R. W., 2 VM ..... Webb City, Mo.
Bennett, T. A., 4 EE ..... Ft. Worth
Benson, D. W., 1 LA ..... Bryan
Benson, J. D., Jr., 2 AA ..... Bryan
Benson, M. H., 3 Sci ..... Dallas
Benson, W. R., 2 ME ..... Houston
Bentinck, G. F., 2 ChE ..... Dallas
Bentley, C. A., 2 PetE ..... Muenster
Bentley, C. L., 2 AA ..... Valley View
Bentley, J. H., 1 Agr ..... Burkburnett
Berg, Atley M., 1 Agr .... Fredericksburg
Berg, H. M., 4 AgEng .... Fredericksburg
Berger, R. J., 1 EE ..... Bryan
Bergmann, C. H., Jr., 4 Land .... Goliad
Berlin, A. E., Jr., 1 ME .... Alexandria, La.
Berlocher, S. Harry, 4 PetE ..... Houston
Bernauer, M. S., 1 AA ..... Port Arthur
Bernhard, W. E., 2 PetE .... Wichita Falls
Bernkrant, A. I., 2 VM .... New York, N. Y.
Bernkrant, Louis, 3 VM ..... Bryan
Berry, C. D., Jr., 2 LA ..... Greenville
Berry, Edgar L., Jr., 1 CM ..... Texarkana
Berry, Jim, 1 CE ..... Cisco
Berry, W. E., 4 AA ..... Edgewood
Berryhill, G. L., 1 PetE ..... Petrolia
Berryman, R. L., 1 PetE ..... Houston
Bertelsen, H. J., 1 EE ..... Houston
Bertetta, G. P., 2 VM .... Colman, California
Bertholf, D. F., 1 ME ..... Harlingen
Bessett, E. W., 1 ME .... Corpus Christi
Bethel, M. B., 2 ArchE ..... Houston
Betlach, E. R., 2 VM ..... Bryan
Bettin, Melvin, 1 Sci ..... Houston
Bevan, D. H., 2 EE ..... College Station
Beville, A. H., 1 Agr ..... Waco
Beville, J. R., 3 Agr ..... Amarillo
Beville, P. A., 4 AA ..... Amarillo
Beyer, D. A., 2 EE ..... San Antonio
Bianchi, D. C., 2 ME ..... Victoria
Bibb, J. R., 2 IE .... Munford, Tennessee
Bibb, W. E., 2 RE .... Munford, Tennessee
Bibbs, J. C., 3 EE ..... Edinburg
Bicknell, J. E., Jr., 3 EE ..... Goree
Bigelow, W. L., 2 VM .... Tuolumne, Cal.
Biggs, M. L., 4 Arch ..... Ft. Worth
Biggs, W. P., 1 ME ..... San Antonio
Bills, R. C., 2 AA ..... Dawson
Bills, W. M., 2 AA ..... Hubbard
Bing, B. U., 2 Agr ..... Oakwood
Bing, H. A., 1 Agr ..... Oakwood
Bing, Roland, 1 Agr ..... Oakwood
Bingham, F. G., 1 LA ..... Smithville
Bingham, M. G., 2 Agr ..... Normangee
Bird, C. A., 3 LA ..... Texon
Bird, F. S., Jr., 1 EE ..... Houston
Bird, G. T., 4 EE ..... Donna
Bird, V. W., 1 PreVet ..... Ft. Worth
Birdsong, H. G., 1 Agr ..... Winnsboro
Birdsong, Searcy, Jr., 4 Sci ..... Longview
Birdwell, P. K., 1 PetE ..... Tyler
Birnbaum, I. S., 4 AA ..... San Antonio
Biron, Jules N., 3 PetE ..... Galveston
Bisett, E. W., 2 LA ..... Pampa
Bishop, J. B., 3 Agr ..... Georgetown
Bishop, J. P., 1 AA ..... Bryan
Bistrow, E. I., 3 ME ..... Houston
Black, D. H., 1 ME ..... Weimar
Black, H. J., 3 Agr ..... Breckenridge
Black, Jean J., 4 VM ..... College Station
Black, J. L., 3 Agr ..... Big Lake
Black, R. G., 1 Arch ..... San Antonio
Blackaller, E. H., 1 PetE ..... Pearsall
Blackburn, G. S., 1 Agr ..... Beaumont
Blackburn, J. L., 1 ME ..... Dallas
Blackburn, J. R., 1 ME ..... Lufkin
Blackwell, C. M., 1 Agr ..... El Paso
Blair, G. B., 4 AA ..... Lubbock
Blair, J. S., 1 ME .... Bartlesville, Okla.
Blake, L. T., 2 Agr ..... Nacogdoches

Blakemore, J. E., 1 AA ..... Greenville
Blakemore, W. S., 2 PetE ..... Greenville
Bland, C. J., 2 IE ..... Houston
Bland, R. O., 3 AgEd ..... Rusk
Blankfield, Jack, 1 Sci ..... Houston
Blankenship, R. H., 2 AA ..... Amarillo
Blankenship, D. A., 4 Agr ..... Stephenville
Blankinship, W. B., 2 Agr ..... Stephenville
Blanton, J. F., 2 AA ..... Houston
Blaschke, L. E., 3 ME ..... Ingleside
Bledsoe, J. V., 2 ME ..... Waco
Blessing, William, 1 Arch ..... Dallas
Blessington, H. L., 2 PetE, Jennings, La.
Blohm, G. L., 3 PetE ..... Houston
Blomshield, H. W., 1 PetE ..... Big Spring
Blomshield, J. B., 1 ChE ..... Big Spring
Bloodworth, J. C., 2 AgEng ..... Olney
Bloodworth, M. E., 2 EE ..... Axtell
Blum, I. P., 2 VM ..... College Station
Blume, Walter, 3 PetE ..... San Antonio
Blume, W. L., 1 Agr ..... Bryan
Blumenthal, J. C., 4 VM .... College Station
Boaz, D. F., 2 PetE ..... College Station
Bobbitt, B. W., 2 Agr ..... College Station
Bobbitt, D. H., 1 ChE ..... Pampa
Bockhorn, H. F., 4 AA ..... Brenham
Bocquet, P. E., 3 ChE ..... Beeville
Bodine, H. H., 2 Agr ..... Colorado
Bodine, H. M., 2 CM ..... Eldorado
Boemer, A. R., 1 AA ..... Brenham
Bogen, Sidney, 3 VM ..... New York, N. Y.
Boggs, V. E., Jr., 1 VM ..... Marquez
Bohning, W. G., 2 Agr ..... Lometa
Bohuslav, A. J., 1 Arch ..... Moulton
Boland, R. N., 4 Agr ..... Atlanta
Bolding, A. P., 2 ME ..... Bonham
Bolding, H. D., 1 PetE ..... Goliad
Bolin, S. H., 3 ME ..... Dallas
Bolton, Billy F., 1 Agr .... Sulphur Springs
Bolton, O. J., 1 ME ..... New Baden
Bolton, P. M., 2 Arch .... College Station
Bond, E. M., 1 ChE ..... Dallas
Bond, R. A., 1 AA ..... Bryan
Bone, J. R., 2 AA ..... Waco
Bone, T. R., 1 AgEng ..... Batesville
Boney, W. A., Jr., 2 VM ..... Iola
Bonnette, C. S., 1 AA ..... Brownfield
Bonnette, G. A., 1 AA ..... Brownfield
Bonnette, I. T., 3 EE ..... Beaumont
Booker, J. O., Jr., 1 CE ..... Lufkin
Booker, T. A., 3 AgEd ..... Belton
Bookman, R. W., 3 EA ..... Houston
Boone, W. D., 2 Sci ..... Athens
Booth, L. D., 1 CE ..... San Antnio
Borden, James, 1 EE ..... Galveston
Borders, W. E., 3 EE ..... Ft. Worth
Borer, M. H., 3 VM ..... College Station
Borgfeld, H. O., Jr., 1 Agr ..... Converse
Bornefeld, H. A., 3 LA ..... Galveston
Bost, G. V., 1 PetE ..... Amarillo
Bostick, B. L., 1 Agr ..... Moody
Botard, E. J., 4 Agr ..... Alice
Botkin, Horace, 1 ME ..... Olney
Bott, A. R., 2 VM ..... St. Louis, Illinois
Boudreaux, J. C., 1 PetE ..... Houston
Boulter, M. H., Jr., 2 ME ..... Abilene
Bourland, Gordon, 1 ME ..... Fort Worth
Bourn, J. F., 2 Arch ..... Dallas
Bowdre, T. B., 1 Agr ..... Fort Worth
Bowen, Don B., 2 Agr ..... Sterling City
Bowen, M. E., 4 VM ..... Austin
Bowers, L. J., 2 VM ..... Troy
Bowles, C. E., 1 ME ..... Bryan
Bowman, C. R., 1 ChE ..... Texarkana
Bowman, J. L., 1 Sci ..... Victoria
Bowman, R. J., 2 Agr ..... San Antonio
Bownds, W. A., 3 Agr ..... Houston
Box, John, 1 Agr ..... Centerville
Box, Jack W., 1 ME ..... Houston
Box, M. W., 1 Sci ..... Port Arthur
Boxer, Jack, 2 PetE ..... Houston
Boyce, D. M., 3 Agr ..... Dallas
Boyd, H. F., 3 AA ..... Jacksboro
Boyd, J. H., 1 AA ..... Amarillo
Boyd, J. K., 2 ChE ..... Shreveport, La.
Boyd, J. M., 4 AA ..... Dallas
Boyd, M. M., 2 AgEd ..... Marquez
Boyett, Guy F., Jr., 1 ME .... College Station
Boyle, E. F., 1 ME .... San Francisco, Cal.
Boyle, G. M., 4 Agr ..... Paris
Bracher, C. W., 3 AgEng ..... Port Lavaca
Bradberry, C. B., 2 LA ..... Cleburne
Braddy, W. L., 4 Agr ..... Fort Worth
Braden, J. C., 2 ArchE ..... Houston
Bradford, J. W., 3 AgEd ..... Arlington
Bradley, J. C., 4 EE ..... Sweetwater
Bradley, J. P., 3 ME ..... San Antonio
Bradley, Tom, Jr., 2 AgEd ..... Fife
Bradley, Wright, 4 PetE ..... Palestine
Bradley, W. B., 1 Agr ..... Alta Loma
Bradley, L. H., 1 Agr ..... Hereford
Bradshaw, D. K., 4 ME ..... El Paso
Bradshaw, S. E., Jr., 1 AA .... Springtown
Brady, B. C., Jr., 1 Arch ..... Port Arthur
Brady, J. D., 1 PetE ..... San Antonio
Brakebill, C. H., 1 PetE ..... Bonham
Bramlett, W. D., 3 Agr ..... Dublin
Branam, R. O., 1 ME ..... Crane
Brandes, L. E., 2 Agr ..... Weimar
Brands, J. T., 3 EE ..... Amarillo
Brannan, C. F., 1 LA .... Texarkana, Ark.
Brannon, R. D., 1 LA ..... Bonham
Branscome, B. J., 1 PetE ..... Hillsboro
Bransom, G. E., 4 ME ..... Burleson
Brasuel, T. A., 4 Agr ..... Canyon
Braswell, C. D., 2 CE ..... Paris
Braswell, D. Ernest, 4 EE ..... Dallas
Bratcher, D. H., 2 ME ..... Conroe
Braucher, J. L., 1 LA .... Bartlesville, Okla.
Braun, A. F., Jr., 2 Sci ..... San Antonio
Braunig, D. L., 1 AA ..... Yorktown
Braunig, Hubert E., Jr., 3 PetE .. Beaumont
Braunig, W. A., 2 IE ..... Yorktown
Bray, J. C., 2 AgEng ..... Bridgeport
Bray, W. R., 2 IE ..... Houston
Brazelton, W. B., 2 GE ..... Waco
Braziel, W. M., 2 PetE ..... Gladewater
Breeding, J. M., 1 AA ..... Moody
Breihan, W. F., 1 AA ..... Bartlett
Breithaup, Claude, Jr., 2 Agr .... Corsicana
Brennan, H. W., 4 PetE ..... Abilene
Brenner, M. L., 1 Agr ..... Houston
Brentzel, Reese, Jr., 2 ME ..... Huntsville
Brewster, O. F., 1 Agr ..... Temple
Brians, H. H., 1 Agr ..... El Paso
Bridge, E. H., 1 IE ..... Abilene
Bridges, J. M., 3 ME ..... Houston
Bridges, Philip, 3 AA ..... Stephenville
Briggs, F. C., 1 LA ..... Homer, New York
Briggs, G. A., 1 AA ..... Del Rio
Brimberry, W. O., 2 ChE ..... Grapeland
Brin, Harris, 1 LA ..... Dallas
Brinkoeter, A. L., 1 EE ..... San Antonio
Britain, D. W., 2 PetE ..... Amarillo
Britt, A. R., 2 LA ..... Ranger
Brittain, A. L., 1 LA ..... Bryan
Britten, W. S., 1 AA ..... Groom
Brock, G. A., 3 VM ..... Dallas
Brogdon, A. C., 1 ME ..... Cameron
Brogdon, J. R., 1 LA ..... Cameron
Bronstein, B. C., 1 ArchE ..... Fort Worth
Brook, D. K., 1 Agr ..... Raymondville
Brooks, B. B., 3 ChE ..... Ibex
Brooks, H. W., Jr., 3 ME ..... Shafter

Brooks, J. M., 4 AA ..... Denton
Brooks, LaVere, 1 Arch ..... Somerville
Brooks, Leon, 1 LA ..... Dallas
Brooks, R. H., 1 ArchE ..... Waco
Brooks, T. R., 4 AA ..... Denton
Brooks, W. C., 4 VM .... Prairie Grove, Ark.
Brookshier, C. C., 4 AgEd ..... Benoit
Broome, J. W., 1 ME ..... Houston
Brotemarkle, N. I., 2 PetE ..... Palacios
Brotherton, R. R., 2 Agr ..... Comstock
Brounes, Pincus, 2 LA ..... Houston
Broussard, G. P., 4 VM .... New Iberia, La.
Browder, C. D., 3 PetE ..... Dallas
Browder, H. M., 2 Sci ..... Groesbeck
Brown, A. A., 4 AA ..... San Antonio
Brown, Andy S., 1 AgEng ..... Jericho
Brown, B. R., 1 Agr .... Shreveport, La.
Brown, B. W., 2 ME ..... El Paso
Brown, C. A., 2 PetE ..... Wink
Brown, Charles M., 2 Agr ..... Friona
Brown, Clarence M., 1 PetE .... Needville
Brown, Charles William, 4 EE .... Beaumont
Brown, Charles William, 2 PetE .... Houston
Brown, D. C., Jr., 1 EE ..... Dallas
Brown, D. H., 4 PetE ..... Decatur
Brown, D. L., 1 ChE ..... Houston
Brown, E. S., 4 Agr ..... Beeville
Brown, F. B., 1 ME ..... College Station
Brown, G. W., Jr., 2 EE ..... Dallas
Brown, J. C., 3 ChE ..... Hartley
Brown, J. H., 3 ME ..... Corsicana
Brown, J. L., 4 AgEd ..... Santa Anna
Brown, Jack Weldon, 1 ME ..... Wink
Brown, Jack Woodrow, 1 AA ..... Cleveland, Ohio
Brown, Leroy, Jr., 1 ME ..... Ft. Worth
Brown, Lewis, 2 Agr ..... Henrietta
Brown, L. C., 3 AgEd ..... Naples
Brown, M. H., 1 AA ..... Rockwall
Brown, Richard, Jr., 1 ME .... San Antonio
Brown, R. D., 2 VM ..... Cisco
Brown, R. H., 2 VM ..... Kerrville
Brown, S. E., 1 AA ..... Dalhart
Brown, U. D., Spec CE ..... Bryan
Brown, W. G., 2 VM ..... Truscott
Brown, W. N., 4 ME ..... Ft. Worth
Brown, W. W., 3 AA ..... Tomball
Browne, J. A., 1 PetE ..... Brownsville
Browning, J. M., 2 AA ..... Lolita
Bruce, P. H., 2 ChE ..... Gladewater
Bruce, R. M., 1 PetE ..... Longview
Bruckner, John, 2 IE ..... Dallas
Brumblelow, J. W., 1 Agr ..... Moody
Brumble, G. H., 4 VM .... Richmond, Va.
Brundidge, B. D., 2 Sci ..... Dallas
Brundrett, W. M., 2 CE ..... Dallas
Brunner, A. A., Jr., 1 AA ..... Galveston
Bryan, J. H., 2 EE ..... Granbury
Bryant, E. H., 1 Agr ..... Stephenville
Bryant, G. H., 2 AA ..... Stephenville
Bryant, H. D., 2 AgEd ..... Stephenville
Bryant, M. D., 4 Agr ..... Alba
Bryant, R. R., 1 EE ..... El Paso
Bryce, W. L., 1 Agr ..... Crockett
Bryson, B. G., 3 VM .... Shreveport, La.
Bucek, R. E., 1 Agr ..... Schulenburg
Buchanan, D. E., 1 EE ..... Caddo Mills
Buchanan, T. V., 4 AA ..... Dublin
Buchel, F. T., 1 Agr ..... Cuero
Buck, A. J., 2 ME ..... Austin
Buck, T. E., 1 PetE ..... Brazoria
Buckalew, S. J., 1 Sci ..... Dallas
Buckingham, R. P., 1 PetE ..... Houston
Buckley, O. E., 1 AgEd ..... Brenham
Buckley, W. B., 2 LA ..... Weatherford
Buckner, J. H., 3 ME ..... Cleburne
Buckner, R. C., 1 ME ..... Pasadena
Bucsanyi, J. M., 1 LA ..... Rosenberg
Budlong, R. R., 2 PetE ..... Gainesville
Buehrig, J. E., 1 CE ..... Cuero
Buenz, N. F., 1 ME ..... Phillips
Buie, R. C., 2 Agr ..... Waxahachie
Buie, W. C., 3 PetE ..... Mertens
Bukowski, T. J., 1 EE ..... Bryan
Bullard, A. L., 2 ME ..... Galveston
Bullard, G. P., 1 ME ..... Waxahachie
Bullard, R. J., 3 EA ..... Galveston
Bullington, G. C., 1 LA .... Wichita Falls
Bullock, H. L., 1 AA ..... Bryan
Bullock, Q. S., 3 ChE ..... Bryan
Bumpas, C. M., 1 PetE ..... Quanah
Bumpas, M. A., Jr., 1 PetE ..... Knox City
Bumpers, L. P., 1 Agr ..... Moran
Bunger, W. H., Jr., 1 AA ..... Ozona
Buntin, L. D., 4 Agr ..... Plainview
Buntin, W. C., Jr., 2 AA ..... Wichita Falls
Burbank, E. W., 1 CE ..... Dallas
Burch, C. A., 2 ME ..... Big Spring
Burch, F. C., 1 ChE ..... Hempstead
Burch, W. E., 2 VM ..... Canadian
Burch, W. J., 1 ChE ..... Port Arthur
Burcham, W. J., 3 ME ..... Alpine
Burchfield, J. E., 1 AgEd ..... Mart
Burchfield, R. W., 3 LA ..... Bonham
Burditt, B. L., 4 Sci ..... Del Rio
Burgess, J. E., 1 CM ..... Plainview
Burgess, V. N., 4 PetE ..... Dallas
Burk, D. G., 2 AA ..... Rochelle
Burk, Jack, 4 PetE ..... Port Arthur
Burke, J. T., 1 ME ..... Ft. Worth
Burkes, J. T., 2 Agr ..... Reagan
Burkett, J. E., 2 Agr ..... Tyler
Burkhalter, Albert, 1 LA ..... Baytown
Burks, M. L., 1 Agr ..... Ralls
Burleson, L. L., 3 Agr ..... Mart
Burley, W. D., 1 CM ..... College Station
Burndrett, W. E., Jr., 1 PetE ..... Houston
Burnett, E. F., 2 PetE ..... Hempstead
Burnett, R. E., 1 PetE ..... Goose Creek
Burnett, Roy Edwin, 2 AgEd ..... Bonham
Burney, C. R., 4 PetE ..... Houston
Burney, R. L., 1 AA ..... San Antonio
Burns, B. H., 3 ME ..... Port Arthur
Burns, C. L., 1 EE ..... Mt. Vernon
Burns, M. M., 1 PetE ..... Big Spring
Burns, R. C., 1 LA .... Mexico City, Mexico
Burnside, N. D., 4 Agr ..... Bellaire
Burrus, D. R., 1 PetE ..... Ft. Worth
Burrus, M. M., 3 VM ..... Byers
Burtis, P. T., 1 AA ..... Bryan
Burtner, B. Parrish, 3 CE ..... Roxton
Burton, Bill, 4 AA ..... El Paso
Burton, W. A., 4 CE ..... Mt. Pleasant
Busby, S. H., 1 ChE ..... Beaumont
Bush, E. H., 1 AgEng ..... Bryan
Bush, F. W., 3 Arch ..... Houston
Bush, R. Edgar, 3 AA ..... Corsicana
Bush, R. Ewell, 4 Sci ..... Palestine
Bussey, J. T., 4 AA ..... Childress
Buster, W. B., 3 Agr ..... Junction
Butcher, J. H., 1 CE ..... Ft. Worth
Butler, E. R., 2 Agr ..... Graham
Butler, H. G., 4 Agr ..... Dallas
Butler, J. H., 2 ME ..... Freeport
Butler, Martin, 2 PetE ..... Austin
Butler, M. C., 1 PetE ..... Bryan
Butler, O. D., 4 Agr ..... Orange
Butler, P. H., 1 LA ..... Temple
Butler, R. P., 2 ME ..... Austin
Butler, W. H., 2 Agr ..... Barry
Butler, W. J., 3 ChE ..... Greenville
Butler, William Jarvis, 4 AA ..... Orange
Butschek, Edgar J., 2 AA ..... Moulton
Button, J. R., 2 ME ..... Harlingen

Buttrill, H. B., 3 AA ..... Decatur
Buttrill, W. D., 2 AgEd ..... Denton
Byars, E. C., 2 Sci ..... San Angelo
Bynum, A. E., 1 PreVet, Little Rock, Ark.
Byrd, B. L., 1 ME ..... Wichita Falls
Byrd, C. E., 4 VM ..... Colorado
Byrd, E. E., 2 ChE ..... Jacksonville
Byrd, E. L., 1 EE ..... Houston
Byrd, R. W., 2 ME ..... Waco
Byrd, W. H., 2 ME ..... Temple
Byrne, P. E., 1 ME ..... Goliad
Byrnes, J. S., 1 ME .... Bartlesville, Okla.
Cabaniss, B. A., 2 PetE ..... Lockhart
Cabaniss, J. E., 2 Agr ..... Mathis
Cadena, E. R., 2 PetE ..... Houston
Cagle, C. L., 1 LA ..... Palestine
Cain, B. T., 1 VM .... New Orleans, La.
Cain, J. C., 1 PetE ..... Liberty
Cain, J. H., 2 ChE ..... Dallas
Cairo, L. J., 2 Sci ..... Rio Grande
Cajka, D. L., 4 Agr ..... Wheelock
Caldwell, F. H., 2 VM ..... Peoria, Illinois
Caldwell, Roy, Jr., 3 LA ..... McKinney
Calhoun, Jack, 3 Agr ..... Sherman
Calhoun, W. B., 1 AA ..... Tyler
Callahan, S. O., 2 VM ..... Amarillo
Callaway, L. C., 1 Agr .... Magnolia Springs
Callaway, S. J., 2 Agr ..... Mt. Calm
Callier, T. P., 1 LA ..... Crockett
Callihan, M. R., 2 Agr ..... Conway
Calvert, Edward, 1 ME ..... Dallas
Calvert, H. W., 3 CE ..... Brady
Calvillo, Juan, 1 ChE .... Monterrey, Mex.
Cameron, B. S., 1 ChE ..... McKinney
Cameron, J. A., 1 LA ..... Dallas
Camp, Alvin, 3 AgEd ..... Snyder
Camp, Frank A., 1 Arch ..... Blum
Camp, John T., 1 ME ..... Beaumont
Camp, L. B., 4 Agr ..... Kyle
Camp, L. T., Jr., 1 AA .... Hughes Springs
Camp, Walter H., 4 Agr ..... Wellington
Campbell, C. A., 1 Arch ..... Jasper
Campbell, E. R., 4 Agr ..... Brady
Campbell, F. P., 1 PetE .... Aruba, N. W. I.
Campbell, F. R., 1 ME ..... Corpus Christi
Campbell, G. M., 4 EA ..... Tyler
Campbell, J. D., 1 EE ..... Dallas
Campbell, J. G., 2 ChE ..... Tyler
Campbell, J. H., 4 PetE ..... Midland
Campbell, J. L., 4 ME ..... Dallas
Campbell, Lee, 1 Agr ..... Kermit
Campbell, R. S., 2 PetE ..... Houston
Campbell, T. R., 2 AA ..... Knox City
Campion, R. M., Jr., 1 AA ..... Dallas
Canady, M. E., 2 ChE ..... Weaver
Canfil, L. W., 4 ME ..... Sweetwater
Cannan, B. D., Jr., 1 LA ..... Angleton
Cannan, James T., 4 PetE ..... Angleton
Cansler, Jack E., 1 EE ..... Houston
Cantini, F. O., 3 LA ..... Galveston
Cantwell, E. R., Jr., 1 LA, Corpus Christi
Caperton, Rueben T., 2 Agr ..... Bronte
Capt, Emmett E., 1 PetE ..... Uvalde
Caraway, R. B., Jr., 2 VM ..... Tolar
Caraway, Vestal H., 1 AA ..... Houston
Carden, Billy J., 1 PreVet ..... Tyler
Carden, Darrell D., 2 AgEng ..... Killeen
Carden, Weldon G., 2 AA ..... Killeen
Cardwell, G. C., 1 Agr ..... Lockhart
Cardwell, Horace M., 2 LA ..... Dallas
Cargile, James W., 2 AA .... New Braunfels
Cargill, Charles W., 1 IE ..... Pasadena
Carlisle, J. L., 1 AA ..... Alice
Carlisle, J. M., 3 Agr ..... Kaufman
Carll, E. William, 2 AA ..... Waco
Carlton, Royce G., 1 AA ..... Lufkin
Carmichael, H. A., 1 AA ..... Hamlin
Carmichael, Walter P., 2 Sci, San Antonio
Carmichael, William H., 3 Agr .... Henrietta
Carnes, George K., 2 CE ..... Ferris
Carothers, Ronald B., 1 CM ..... Rule
Carpenter, Albert L., 2 PetE ..... Bellville
Carpenter, Henry D., 3 VM ..... Bryan
Carpenter, John E., Jr., 3 CE .... Whitesboro
Carpenter, J. F., 1 CM ..... San Antonio
Carr, James L., 1 AA ..... Clint
Carr, Leroy B., 1 Agr ..... Big Lake
Carrell, Jesse S., 2 IE ..... Kaufman
Carrigan, James A., 4 AA .... Breckenridge
Carroll, Alton J., 2 PetE ..... Valera
Carroll, Francis M., 1 AA ..... Plainview
Carroll, Paul M., Jr., 2 AA ..... Houston
Carroll, Robert E., 2 VM ..... Abilene
Carroll, Thelston B., 4 AgEd ..... Bryan
Carruth, Leslie G., 2 PetE ..... Denton
Carson, E. F., 4 AgEd ..... Valley View
Carson, J. L., 2 ChE ..... Dallas
Carson, K. F., 1 Agr ..... Cuero
Carson, M. H., 1 ME ..... Field Creek
Carson, Ray, Jr., 2 ME ..... Holliday
Carter, F. S., 2 PetE ..... Wichita Falls
Carter, G. G., 1 IE ..... Abilene
Carter, H. C., 3 AA ..... Luling
Carter, Haley H., 1 PetE ..... Joinerville
Carter, J. H., 3 Agr ..... Childress
Carter, P. M., 4 PetE ..... Texarkana
Carter, R. H., 3 ME ..... Dallas
Carter, R. S., Jr., 1 PetE ..... Galveston
Carter, R. St. Claire, 1 Agr, Corpus Christi
Carter, R. W., 1 VM .... Omaha, Nebraska
Carter, W. C., 1 EE .... Fordyce, Arkansas
Carter, W. J., 2 CE ..... Dallas
Cartrite, H. T., 1 VM ..... Stratford
Cartwright, O. V., 1 ME ..... Dallas
Cartwright, W. B., 1 Agr, Carrizo Springs
Caruthers, E. B. B., 4 ME .... San Antonio
Carvajal, Vincente E., 2 AA ..... Carcas, Venezuela
Carver, H. E., 2 VM ..... Bryan
Casanas, J. A., Jr., 3 EE ..... Santurce, Puerto Rico
Case, H. L., 1 PetE ..... Houston
Case, Horace W., 1 AA ..... Dayton
Casey, A. D., 2 Agr ..... Temple
Casey, J. M., 2 ME ..... Mullin
Casey, J. P., 3 ChE ..... Ft. Worth
Casey, W. St. John, 1 ME ..... Ft. Worth
Cashen, James, 2 PetE ..... Batson
Cashion, R. B., 1 ME ..... Coldspring
Cass, Billie J., 1 AgEd ..... Valley Mills
Cass, E. C., 1 CM ..... Haskell
Cassell, G. L., 2 ChE ..... Dallas
Cassin, William, 3 ME ..... San Antonio
Castleberry, G. W., 1 EE ..... Longview
Castleberry, M. W., 2 VM.... San Benito
Castro, F. E., 3 VM, San Francisco, Calif.
Cater, J. W., 1 ChE ..... Waller
Cathey, A. L., 1 AA ..... Ft. Worth
Caughran, M. B., 2 CE ..... Munday
Cavender, W. D., 2 CE ..... Dallas
Cavitt, S. W., 2 ArchE ..... San Angelo
Cawthon, W. A., 3 AA ..... Paris
Cecil, W. W., 2 LA ..... Freeport
Cerna, O. J., 4 ChE ..... Eagle Pass
Chacon, P. J., 1 AA ..... Bogota, Columbia
Chamberlain, C. H., 3 PetE ..... Marlin
Chamberlain, D. R., 1 PetE ..... McMahan
Chamberlain, J. A., 1 ChE ..... Dallas
Chamberlain, Paul, 2 EE ..... El Paso
Chambers, G. G., 1 ME ..... San Antonio
Chambers, M. P., 1 EE ..... McKinney
Chandler, K. H., 2 CM ..... Thorndale
Chandler, Sam H., Jr., 1 EE ..... Dryden
Chang, H. T., 1 CE .... Honolulu, Hawaii

Chapman, Albert, Jr., 1 AA .... Crockett
Chapman, E. G., 4 Agr ..... Avoca
Chapman, L. R., 4 VM ..... Roscoe
Chapman, W. B., 2 Agr ..... Waco
Chapoton, T. E., Jr., 1 IE ..... Waco
Chappell, R. J., Jr., 2 PetE ..... Kaufman
Charlebois, G. J., 1 VM, Los Angeles, Cal.
Chastain, C. B., 2 VM ..... Rising Star
Chedester, E. M., 1 VM .... Cordell, Okla.
Chedester, L. D., 3 VM ..... Cordell, Okla.
Cherry, J. Harold, 1 PetE ..... Bay City
Cherry, J. W., 3 EA .... Shreveport, La.
Cherry, L. P., 1 LA ..... Elgin
Cherry, T. G., 4 AgEd ..... Giddings
Chesnutt, G. B., 1 PetE ..... Houston
Chesnutt, S. D., 4 ChE ..... Kenedy
Chevaillier, L. B., 4 AgEng ..... Marshall
Childers, R. L., 2 ChE ..... Gregory
Childress, F. P., Jr., 1 AA ..... Dallas
Childs, L. F., 1 ME ..... College Station
Christian, A. L., 2 LA ..... McLean
Christian, B. E., 5 Arch ..... Claude
Christian, C. B., 2 CE ..... Jefferson
Christian, G. C., 1 Agr ..... Crockett
Christian, L. J., 2 Agr ..... McLean
Christian, Paul, 4 VM ..... Waco
Christian, T. T., 1 PreVet ..... Waco
Christopherson, E. M., 3 VM ..... Foston, Minnesota
Chromaster, William, 1 ArchE .... Ft. Worth
Citzler, A. M., 2 ME ..... La Grange
Clampitt, R. M., 1 IE ..... Beaumont
Clare, R. T., Jr., 1 PetE ..... Daisetta
Clark, Austin W., 1 PetE ..... Dallas
Clark, D. C., Jr., 1 ChE ..... Abilene
Clark, E. R., 1 ME ..... San Benito
Clark, Jack T., 4 AgEd ..... Greenville
Clark, J. W., 4 ME ..... San Benito
Clark, R. M., 4 VM .... Kokomo, Indiana
Clark, W. K., 1 Agr .... Mobile, Alabama
Clark, W. R., 2 Agr ..... Liberty
Clark, W. W., 1 AA ..... Stowell
Clarke, Alexander, Jr., 3 PetE .... Coleman
Clarke, Clarence, Jr., 2 Agr .... Hamilton
Clarke, Frederick, 2 ME ..... Coleman
Clarke, J. F., 2 PetE ..... Gatesville
Clarke, J. R., 1 ME ..... Waco
Clarke, W. L., 2 CE ..... Waco
Clarkson, William, III, 2 Sci .... Corsicana
Clary, S. R., 3 AA ..... Greenville
Clay, A. W., Jr., 2 AA ..... Houston
Clay, J. A., Jr., 3 PetE ..... Ft. Worth
Clayton, H. D., 3 AgEd ..... Dublin
Clearman, H. L., 4 Agr ..... Lamesa
Clemans, Walter, Jr., 3 Agr ..... Boyd
Clemens, F. C., II, 4 ME ..... Houston
Clements, J. F., 3 ChE ..... Crowley
Clements, R. B., 2 ME ..... Goldthwaite
Clepp, J. H., 2 Agr ..... Waco
Clepper, P. W., 1 EE ..... Mobeetie
Cleveland, Jack, 1 Agr ..... Plains
Cleveland, W. A., 1 PreVet ..... Ft. Worth
Cline, E. C., 1 Agr ..... Dallas
Cline, G. L., 1 Agr ..... Ft. Worth
Cloninger, Kriss, Jr., 1 CE ..... Devers
Clopton, T. S., 4 PetE ..... Amarillo
Closner, G. W., 1 AA ..... Edinburg
Cloud, B. B., 3 CE ..... San Antonio
Cloud, J. B., 1 AA ..... Rule
Cloudt, J. B., 1 AA ..... Rocksprings
Cloudt, O. B., Jr., 4 Agr ..... Rocksprings
Cloudt, W. O., 4 AA ..... Rocksprings
Clutter, J. E., 1 ChE ..... San Antonio
Clutter, J. P., 1 AgEd ..... College Station
Clutter, Pat C., Jr., 2 Agr ..... Bonham
Cylatt, B. W., 1 VM ..... Eastland
Clynes, G. W., 1 PetE .... Mexico City, Mex.
Cobb, D. H., 1 AA ..... Midland
Coble, J. P., 2 VM ..... College Station
Coburn, G. C., 4 VM ..... Bryan
Cochran, J. B., 1 PetE ..... Throckmorton
Cock, C. E., Jr., 2 ME ..... Corpus Christi
Cocke, B. W., 2 PetE ..... Jacksonville
Cockrell, R. B., 1 PetE ..... Dallas
Coffey, A. E., 4 LA ..... Dallas
Coffey, G. E., 1 ChE ..... Dallas
Coffey, L. C., 2 AgEd ..... Zephyr
Coffman, A. K., 3 Agr ..... Goree
Coffman, J. E., 1 PetE .... Wewoka, Okla.
Coffman, W. S., 1 AA ..... Terrell
Cohen, S. E., 4 VM ..... Bryan
Cohn, Harry, 4 ME ..... Dallas
Coke, C. C., 2 LA ..... Marshall
Coker, J. W., Jr., 1 AA ..... San Antonio
Coker, R. T., 2 Agr ..... Mt. Pleasant
Coker, W. K., 1 AA ..... George West
Coker, W. P., 1 LA ..... Paris
Cokinos, G. P., 4 PetE ..... Beaumont
Cokinos, J. P., 3 LA ..... Beaumont
Colbath, D. L., 3 ME ..... Dallas
Colburn, W. L., 4 Agr ..... Bryan
Cole, C. A., 1 PreVet ..... San Antonio
Cole, D. W., 1 AA ..... Big Spring
Cole, J. G., 1 PetE ..... Killeen
Cole, M. H., 1 Agr ..... Madisonville
Coleman, D. M., 1 ChE .... El Dorado, Ark.
Coleman, H. H., 2 AgEd ..... Royse City
Coley, F. A., 1 Agr ..... Omaha
Colgan, L. R., 1 AA ..... Megargel
Colgin, C. H., 3 ChE ..... Brownsville
Colgin, J. H., 2 Sci ..... Waco
Colgin, J. R., 1 LA ..... Gatesville
Collard, F. G., 1 Agr ..... Oglesby
Colley, A. S., 2 ChE ..... Mart
Collier, J. G., 1 ME ..... Houston
Collier, J. J., 3 LA ..... Dallas
Collier, R. E., 4 AA ..... Aspermont
Collier, W. L., 2 AgEng ..... Belton
Collins, A. C., 2 CE ..... Crockett
Collins, Clayton, 1 Sci ..... Emhouse
Collins, J. W., 3 PetE ..... Cross Plains
Collins, R. E., 4 ChE ..... Dallas
Collins, Steve F., 1 AA ..... Mart
Collins, Tom F., 4 AA ..... Garden City
Collins, T. H., 1 LA .... Bartlesville, Okla.
Collins, T. H., 1 CE ..... Temple
Collins, W. A., 2 ME ..... Crockett
Collinsworth, D. B., 3 AgEd ..... Winters
Colon, H. A., 1 ME, Humacao, Puerto Rico
Colquitt, R. M., Jr., 2 LA ..... Dallas
Colson, J. A., 2 AA .... College Station
Colson, W. N., 2 AA ..... Bryan
Comley, H. H., 1 PetE ..... Damon
Comnas, Peter H., 4 AA ..... Cuero
Conatser, W. E., 2 AA ..... Denison
Conley, B. E., 1 ME ..... Ft. Worth
Conley, C. C., 1 LA ..... Raymondville
Conley, J. S., 3 ME ..... Texon
Conly, Paul T., 3 ME ..... Laredo
Connally, Clarence, Jr., 2 CE ..... Waco
Connell, E. M., 2 ChE ..... Bryan
Conner, J. H., 1 Agr ..... Bee House
Connevey, L. H., 1 EE ..... Hillsboro
Connor, C. H., 1 AgEd ..... Daingerfield
Connor, H. W., 4 ME ..... Dallas
Connor, J. M., Jr., 3 ChE ..... Midland
Contella, Carl J., 2 AA ..... Caldwell
Conway, E. W., Jr., 1 AA ..... Galveston
Cook, Bert, 2 ME ..... Dallas
Cook, E. E., 2 ME ..... Ft. Worth
Cook, J. C., 1 AgEng ..... Franklin
Cook, J. G., 3 LA ..... Sinton
Cook, J. M., 4 LA ..... Carrizo Springs
Cook, L. J., 4 Agr ..... Nocona

Cook, O. H., 1 ME ..... Houston
Cook, R. J., 1 Sci ..... Big Spring
Cook, R. L. E., 2 ME ..... Bryan
Cook, T. E., 3 AA ..... Gilmer
Cook, T. F., 1 Agr ..... Cuero
Cook, W. L., 1 AgEd ..... Groveton
Cooke, H. L., 1 AA ..... Eden
Cooksey, J. R., 1 ME ..... Mullin
Cooper, C. R., 1 ME ..... Palestine
Cooper, G. T., 1 Agr ..... Tahoka
Cooper, Jack G. W., 3 PetE ..... Dallas
Cooper, R. T., 1 PetE ..... Dallas
Cooper, S. H., 1 PetE ..... Denison
Cooper, W. C., 2 CE ..... Coleman
Copeland, C. E., 1 Arch ..... Iraan
Copeland, E. H., 1 ME ..... Ft. Worth
Copeland, J. D., 4 Agr, Roswell, New Mex.
Copeland, J. E., Jr., 3 ME ..... Pettus
Copeland, S. J., 1 Agr ..... Elbert
Coquet, L. J., 4 EA ..... Dallas
Corby, J. W., 4 AgEd ..... Marquez
Corder, F. H., 3 Agr ..... Rocksprings
Cordero, V. N., 1 Sci ..... Bryan
Corlett, R. H., Jr., 2 EE .... Wichita Falls
Corley, D. W., 3 EE ..... Dallas
Corley, J. D., 2 AA ..... Breckenridge
Cornell, W. C., 3 ME ..... Dallas
Corns, R. T., 2 AA ..... Harlingen
Corrin, W. G., 3 PetE ..... Ft. Worth
Corry, W. E., 4 VM ..... Bryan
Costlow, R. J., 1 ME ..... Henderson
Coston, F. M., 2 Agr ..... Dallas
Cottingame, W. C., 1 PetE .... Grandview
Cottle, J. E., 2 ChE ..... Orange
Cotton, A. D., 1 Sci ..... Temple
Couch, J. B., 4 VM ..... Grandview
Couch, J. P., 3 ME ..... McKinney
Couch, R. C., Jr., 2 Agr ..... Haskell
Couch, R. W., 1 ME ..... Texarkana
Coulson, Bennett, 4 AgEng ..... Houston
Counselman, O. L., 4 ChE ..... Conway
Courreges, E. J., 4 AA ..... Mineola
Coursey, J. W., 1 AA ..... Lubbock
Courtney, Bobby H., 1 Sci .... Mineral Wells
Courtney, F. K., 3 VM ..... Jonesboro
Cousins, W. D., Spec Agr ..... Beaumont
Coussoulis, P. A., 2 Arch ..... Laredo
Covey, A. B., 1 Sci ..... Bryan
Covington, J. C., 2 EE ..... Mineola
Cowan, Bryan, 1 EE ..... Brenham
Cowan, R. C., 1 PetE ..... San Antonio
Cowan, T. E., 3 CE ..... Pecos
Cowan, W. T., 1 CE ..... Dallas
Coward, R. A., Jr., 2 ME ..... Bellville
Cowgill, R. M., 1 EE ..... San Benito
Cowles, A. W., 3 AA ..... New Braunfels
Cowley, H. E., 1 PetE ..... Freer
Cowley, R. B., 1 EE ..... Freer
Cowley, W. R., 4 AgEd ..... Chico
Cowling, E. W., 2 AgEng ..... Bridgeport
Cox, C. H., 2 Sci ..... Temple
Cox, D. J., 1 ChE ..... Elkhart
Cox, E. H., 4 Agr ..... Raymondville
Cox, G. B., 2 ME ..... Hillsboro
Cox, J. H., 1 AgEng ..... Waco
Cox, J. L., 1 PetE ..... Wichita Falls
Cox, K. K., 2 AgEng ..... Woodson
Cox, L. L., 3 ME ..... Tomball
Cox, M. L., 2 Agr ..... Denison
Cox, Perry, 1 EE ..... Lamesa
Cox, R. E., 2 CE ..... College Station
Cox, T. M., 2 AA ..... Palmer
Cox, V. V., 3 VM ..... Ralls
Cox, W. C., 3 EE ..... Waco
Cox, W. F., 1 AA ..... Johnson City
Cox, W. H., 1 AA ..... Bryan
Crabbe, O. C., 1 LA ..... Houston
Craddock, D. E., 3 Agr ..... Jewett
Craig, J. H., Jr., 1 ChE ..... Waco
Craig, J. W., 4 Sci ..... Houston
Craig, N. V., 1 Agr ..... Miami
Craigo, L. R., 1 Land ..... Paris
Crain, W. E., 1 AA ..... Dallas
Cramer, J. M., 1 EE ..... Houston
Crane, R. M., 1 ME ..... Midland
Cravens, G. M., 4 EE ..... San Antonio
Crawford, D. C., 3 AgEd ..... Vineyard
Crawford, G. G., 2 AgEng ..... Center
Crawford, G. W., 1 IE ..... Kerens
Crawford, J. H., 4 ArchE ..... Stamford
Crawford, J. N., 3 LA ..... Greenville
Crawford, J. W., 2 ME ..... Amarillo
Crawford, R. S., Jr., 1 LA .... Crystal City
Crawford, W. M., 3 EE ..... Navasota
Crawley, H. Douglas, 2 Agr ..... Van Buren, Arkansas
Crawley, H. Deane, 1 PetE ..... Ranger
Crayton, R. B., 2 VM .... Arlington, Mass.
Creager, J. C., 1 PetE .... Corpus Christi
Creighton, J. E., 1 ME ..... Houston
Crews, A. R., 1 AA ..... San Angelo
Crews, G. M., 3 VM ..... Alvord
Crews, L. W., 4 Agr ..... Lindale
Crews, S. T., Jr., 3 PetE-ME .... Crowell
Crisson, R. D., 1 EE, San Juan, Puerto Rico
Crist, D. L., 1 LA ..... Houston
Crist, D. M., 1 CE ..... Waco
Criswell, D. L., 4 EA ..... Calvert
Criswell, J. W., 1 AA ..... Forney
Criswell, R. M., 1 PetE ..... Calvert
Criswell, T. R., 1 AA ..... Forney
Critz, James S., 3 GE ..... Teague
Croft, L. W., 3 ME ..... Hallsville
Crook, R. W., 3 CE ..... Granbury
Cross, E. I., 1 AgEng ..... Charlotte
Cross, Finis G., 1 PetE ..... Houston
Cross, L. D., 1 PetE ..... Calvert
Crouch, J. H., Jr., 2 Agr ..... Lometa
Crouch, J. W., 1 Agr ..... Roanoke
Crouch, L. W., 1 Agr ..... Roanoke
Crow, J. C., 1 VM ..... Dallas
Crow, M. D., 1 ME ..... Dallas
Crow, U. W., 3 AA ..... Normangee
Crow, W. H., 1 AgEd ..... Sherman
Crowe, C. W., 1 EE ..... Brandon
Crump, W. H., 1 AgEng ..... Daingerfield
Crump, W. P., 2 AA ..... Dallas
Crutcher, R. L., 2 PetE ..... Beaumont
Culbertson, R. R., 2 AA ..... Dalhart
Cullers, E. W., 3 LA ..... Megargel
Cullom, T. L., 3 PetE ..... Dallas
Culpepper, A. R., 2 EE ..... San Antonio
Culpepper, T. E., 1 LA ..... Houston
Culpepper, T. W., 1 PetE ..... Columbus
Cummer, R. E., 2 PetE ..... Houston
Cummer, W. F., 3 ChE ..... Houston
Cummings, H. W., 2 CE ..... Weatherford
Cummings, W. W., 1 Agr ..... Houston
Cunningham, B. A., 1 Agr ..... Gause
Cunningham, C. M., 1 ChE ..... Panhandle
Cunningham, E. C., 3 PetE ..... Waco
Cunningham, G. W., 2 AA ..... Whitesboro
Cupples, J. J., 1 EE ..... Dallas
Curd, P. B., 2 ME ..... Wichita Falls
Curlee, C. J., 3 ME ..... Houston
Curley, W. S., 4 AA ..... Bridgeport
Curnutt, B. F., 1 Agr ..... Canadian
Curran, P. T., 2 VM .... Pearl River, N. Y.
Curry, B. J., 3 PetE ..... San Angelo
Curry, H. B., 1 EE ..... Cleburne
Curry, I. T., Jr., 3 LA .... Lebanon, Mo.
Curtan, E. R., 1 LA ..... El Paso
Curtis, M. W., 1 PetE ..... Dallas
Curtis, N. A., 1 ME ..... Pearsall
Curts, K. M., 4 VM ..... Kansas City, Mo.
Cutcher, H. E., 2 LA ..... Lockhart

Dahl, K. W., 2 ME ..... College Station
Dahl, T. V., 4 VM ..... Pettus
Dahman, L. A., 2 Agr ..... Dallas
Dail, R. D., 1 Agr ..... Melvin
Dale, J. T., 3 EA ..... Wichita Falls
Dalton, H. L., 3 Agr ..... Mt. Pleasant
Dalton, W. M., 1 ME ..... Kilgore
Dalton, W. R., Jr., 1 ChE ..... Dallas
Damrel, P. H., 1 ME ..... Pineland
Daniel, J. A., Jr., 1 Sci ..... Kerens
Daniel, P. R., 3 AA ..... Mexia
Daniel, T. S., III, 4 Land ..... Kerens
Daniels, Jacque, 1 ChE ..... Houston
Danver, W. E., 2 PetE ..... Amarillo
Darby, A. L., 1 LA ..... Bryan
Darrow, T. S., 4 AA .... Washington, D. C.
Darst, J. F., 3 VM ..... Terrell
Dashoff, A. D., 4 VM ..... Bryan
Daugherty, F. P., 2 ChE ..... Laredo
Daugherty, T. J., 2 ME ..... Dallas
Dauth, R. L., 1 Arch .... Long Beach, Cal.
Dauth, W. R., 1 Sci .... Long Beach, Cal.
Davenport, S. P., 3 ME ..... Dallas
Davidson, D. A., Jr., 5 PetE .... Nacogdoches
Davidson, F. N., 2 CE ..... Eagle Lake
Davidson, H. C., 3 VM .... College Station
Davidson, R. H., 3 AA ..... Clint
Davies, W. D., 2 IE ..... Victoria
Davis, A. C., 1 ME .... Ft. Peck, Montana
Davis, A. D., 1 Agr ..... Canton
Davis, A. F., 1 CE ..... Needville
Davis, B. A., 3 ChE ..... San Antonio
Davis, B. F., 2 CE ..... Dallas
Davis, C. P., 1 Agr ..... Seminole
Davis, D. J., 1 AA .....
..... Guayaguil, Ecuador, S. A.
Davis, Everett, 4 ME ..... Eastland
Davis, E. C., Jr., 1 PetE ..... Houston
Davis, E. E., 2 AgEng ..... Port Arthur
Davis, E. L., 1 Agr ..... Canton
Davis, G. A., 1 ME ..... Bryan
Davis, G. R., 3 Agr ..... Georgetown
Davis, G. W., Jr., 1 EE ..... Dickinson
Davis, I. B., 1 PreVet ..... Mont Belvieu
Davis, Jean, 1 ChE ..... Houston
Davis, Jim, 3 AA ..... Dallas
Davis, J. B., 3 Agr ..... Mt. Pleasant
Davis, J. P., 4 AgEng .... Ardmore, Okla.
Davis, L. C., 1 EE ..... Jefferson
Davis, L. E., 1 Agr ..... Houston
Davis, L. K., 3 AA ..... Purdon
Davis, L. L., 2 Agr ..... Brady
Davis, L. W., 3 PetE ..... Houston
Davis, O. L., 2 Agr ..... Lamesa
Davis, R. H., 3 VM .....
..... Guayaguil, Ecuador, S. A.
Davis, R. M., Jr., 2 ChE ..... Dallas
Davis, T. B., 3 Agr ..... Gainesville
Davis, T. C., 2 PetE ..... Fort Worth
Davis, W. C., 1 PetE ..... Hillsboro
Davis, W. J., 3 AgEd ..... Winters
Davis, W. Juan, 1 PetE ..... Houston
Davis, W. Odea, 1 PetE ..... Gilmer
Davis, William O.,1 LA ..... Bryan
Davis, W. R., 4 GE ..... San Antonio
Davis, W. W., 1 EE ..... Port Arthur
Dawson, W. H., 1 Agr ..... Crockett
Day, James E., 4 AgEng ..... Dalhart
Day, T. C., 2 ME ..... Blum
Day, T. J., 1 PetE ..... Hempstead
Deal, J. C., Jr., 4 ME ..... San Angelo
Deam, A. P., 3 EE ..... Dallas
Dean, A. A., 3 EA ..... Athens
Dean, H. A., 3 Agr ..... McAllen
Dean, H. J., 1 Sci ..... Victoria
Dean, J. E., 1 Agr ..... Ranger
Dean, J. J., 4 EA ..... Houston
DeArmas, E. E., 1 Agr .....
..... Caragas, Venezuela, S. A.
DeArmond, G. W., 2 ME, Washington, D. C.
Deavenport, J. L., 4 ChE ..... Stanton
DeBell, R. H., 1 AA ..... Houston
DeBerry, S. G., 3 Agr ..... Austin
DeBlanc, L. H., 2 Agr ..... College Station
DeBre, A. J., 1 Sci ..... Marshall
Decker, G. A., 1 EE ..... Haskell
Decker, H. G., 2 Arch ..... Greenville
Dedman, W. W., 2 ME .... Fordyce, Ark.
Dees, B. G., 2 PetE ..... Kaufman
DeFee, R. A., 1 Sci ..... Channing
DeFee, W. H., 1 PetE ..... Channing
De la Torre, J. A., 4 ChE .....
..... Mexico City, Mexico
DeLong, David E., 4 Agr ..... El Dorado
DeLong, R. E., 1 ME ..... Houston
DeLucia, K. J., 1 VM ..... New York, N. Y.
Demke, D. D., 4 VM ..... Stephenville
Denham, W. H., 3 AgEd ..... Georgetown
Denman, Jack, 3 IE ..... Brownwood
Dennard, B. C., 1 Sci ..... Houston
Denney, D. F., 1 ArchE .... College Station
Dennington, J. F., 1 PetE ..... Abilene
Dennis, R. E., 1 PetE ..... Waco
Dennis, T. D., 1 PetE ..... Montgomery
Denny, O. B., 3 PetE .... Shreveport, La.
Denny, W. F., 2 CM .... Shreveport, La.
Denton, G. O., 2 PetE ..... Bryan
Denton, J. G., 3 EE ..... Cleburne
Denton, R. L., 3 PetE ..... Bryan
Denton, V. C., 3 IE .... Pehokee, Fla.
Deodati, J. B., 4 ME ..... San Antonio
DePasqual, V. F., 1 PetE ..... Galveston
Derrick, H. A., 3 GE ..... San Antonio
Derrick, R. V., Jr., 1 PetE ..... Waco
Derryberry, J. W., 2 VM ..... McKinney
DeSalvo, Vincent, 2 PetE ..... Houston
Desel, J. A., Jr., 1 Land ..... Dickinson
Deshotels, J. D., 2 PetE ..... Newgulf
DeVilbiss, C. F., 2 CE ..... College Station
Devine, J. F., 4 PetE ..... Pharr
DeVine, L. F., 1 PetE ..... San Antonio
Devlin, J. P., 3 Agr ..... Deport
Dewey, W. W. 2 VM ..... Bryan
Dexter, J. F., 3 EE ..... Houston
Di, Fu Yu, Spec CM .... Taichang, China
Dickerson, W. F., 1 LA ..... Waco
Dickson, R. B., 1 ME ..... Corsicana
Dickson, R. M., 4 AA ..... Lexington
Diedrick, B. C., 1 LA ..... Honey Grove
Dietz, H. L., 1 AA ..... Forney
Dietz, J. C., 4 ME ..... Dallas
Dillehay, R. H., 1 Agr ..... Decatur
Dillon, P. C., 3 AgEng ..... San Antonio
Dines, J. E., 2 ME ..... Ft. Worth
Dinsmore, James, 3 EE ..... Greenville
Dinwiddie, Wm. T., 2 ME ..... Clarksville
Disbro, J. M., 1 AA ..... San Antonio
Dismukes, I. B., 3 Agr ..... Rocksprings
Dittman, Henry, 4 LA ..... Goose Creek
Dittmar, R. O., 3 Agr ..... Doss
Dixon, J. C., 1 ChE ..... Shamrock
Dixon, J. H., 2 AgEng ..... Lewisville
Dixon, J. M., 2 AA ..... Lewisville
Dixon, L. L., 4 Land ..... Bryan
Dixon, N. E., 1 PetE ..... Houston
Doak, R. A., 1 ME ..... San Antonio
Doan, R. R., 1 AA ..... Navasota
Dobbs, W. C., 1 LA ..... Kerens
Dobyne, J. P., 1 LA ..... Bryan
Dobyns, R. P., 4 PetE ..... Stamford
Dodd, C. L., 2 IE ..... Redwater
Dodd, D. W., 2 Agr ..... Del Rio
Dodge, J. A., 1 LA ..... San Antonio
Dodson, J. L., 3 ME ..... Del Rio
Dodson, O. H., 1 AgEng ..... Chillicothe

Doerr, H. L. F., Jr., 3 AA ..... Carmine
Doggett, B. C., 1 AgEng .... Shreveport, La.
Dolberry, L. A., 2 PetE ..... Eastland
Dollison, C. H., Jr., 2 PetE ..... Dallas
Domas, J. J., 1 ChE ..... Victoria
Domaschk, W. G., 1 ChE .... Port Arthur
Dominy, C. B., Jr., 2 ME ..... Pennington
Donaldson, D. M., 1 ME .... Paragould, Ark.
Donelson, S. B., 2 VM ..... Stanton
Donnell, C. E., 4 AgEd ..... Graham
Donnell, W. C., 1 AA ..... San Antonio
Donnelly, C. G., 3 LA ..... Cedar Bayou
Donovan, F. H., 2 Agr ..... Chillicothe
Donovan, Richard, 1 ME ..... Cisco
Dooley, J. C., 2 AgEd ..... Bryan
Dooley, R. B., 4 AgEd ..... Ireland
Doley, W. D., 4 AgEd ..... Bryan
Dopslauf, D. L., 4 AgEng ..... Houston
Doran, Joe B., 3 ME ..... Waco
Doran, Jack K., 3 CE ..... Midland
Doraugh, T. L., 3 Agr ..... Mabank
Dorroh, G. B., 1 EE ..... Leander
Dorsey, W. E., 1 AA ..... Clarksville
Doss, R. L., 4 LA ..... Whitewright
Dotson, H. F., 1 ME ..... San Antonio
Dougherty, R. C., Jr., 1 LA ..... Dallas
Dougherty, W. B., 2 AA ..... Dallas
Doughty, E. G., 1 EE ..... Marysville
Douglass, E. H., 3 Agr ..... Aspermont
Douglass, F. J., 1 VM .... Metairie, La.
Douglass, G. E., 1 ME ..... Gainesville
Douglass, H. R., 1 PetE ..... Aspermont
Douglass, R. J., 4 ME ..... Dallas
Dowe, T. W., 1 AgEd ..... Hebbronville
Downer, W. W., 3 ME ..... College Station
Downing, Andrew, Jr., 1 PetE .... Mercedes
Downs, A. S., 2 ME ..... San Antonio
Downs, J. A., 1 ME ..... Houston
Downs, J. W., 3 PetE ..... Waco
Doyle, C. R., 3 CE ..... Wichita Falls
Doyle, F. C., 2 LA ..... San Antonio
Doyle, J. J., 4 ChE ..... Houston
Draper, Jessie C., 2 AgEd ..... Queen City
Draper, L. C., 1 AA ..... Edinburg
Dreibelbis, L. L., 2 ME ..... San Juan
Dreiss, Edward, 3 PetE ..... San Antonio
Dreiss, P. M., Jr., 2 ME ..... San Antonio
Drews, F. L., 1 Sci ..... Dallas
Drier, C. H., Jr., 1 EE ..... Dallas
Droleskey, A. H., 1 PreVet .... New York
Droleskey, E. A., 2 VM .... College Station
Drummond, J. M., 1 AA ..... Mt. Vernon
Drumwright, H. E., 2 CE ..... Wortham
Dube, A. L., 3 LA ..... LaPryor
DuBose, A. D., 1 Agr ..... San Antonio
DuBose, L. A., 1 ME ..... Falfurrias
DuBose, R. T., 3 VM ..... Dallas
DuBose, W. G., 1 PreVet ..... San Antonio
Dubuisson, H. J., 1 VM ..... Vidor
Duce, T. E., 2 EE ..... Corpus Christi
Duckworth, E. H., 1 LA ..... Dallas
Duckworth, W. H., 4 LA ..... Caldwell
Dudley, J. N., 2 AgEd ..... Mercedes
Duesenberg, D. D., 4 ME ..... Bryan
Dugan, George, 1 PreVet ..... Marshall
Dugger, B. M., 1 AA ..... Robstown
Duhon, L. M., Jr., 3 PetE .... College Station
Duke, F. R., 3 AA ..... Livingston
Dullnig, A. C., Jr., 4 GE ..... San Antonio
Dullnig, A. J., 1 PetE ..... San Antonio
Dunagan, D. L., 3 Agr ..... Paris
Dunahoe, W. J., 1 PetE ..... Galena Park
Duncan, C. P., 2 AA ..... Ennis
Duncan, D. L., 1 ChE ..... Copperas Cove
Duncan, Glenn E., 3 ME ..... Houston
Duncan, Graham E., 2 AA ..... Algerita
Duncan, H. V., 2 LA ..... Kingsville
Duncan, J. F., 1 ChE ..... Houston
Duncan, J. H., 2 AA ..... Lindale
Duncan, M. H., 3 EE ..... Houston
Duncan, W. M., 3 LA ..... Henrietta
Dunkerley, R. P., 1 PetE .... Corpus Christi
Dunklin, M. T., 3 LA, Cape Girardeau, Mo.
Dunlap, S. M., 3 Agr ..... Millican
Dunn, H. M., Jr., 1 ME ..... Houston
Dunn, Jimmy, 1 ChE ..... San Antonio
Dunn, J. B., 1 Agr ..... Bryan
Dunn, W. M., 3 AA ..... Fort Worth
Dunnam, J. A., 4 AA, Alden Bridge, La.
Dunnet, D. C., 2 VM ..... College Station
Dunning, W. R., 1 Sci ..... Merkel
Dupre, A. J., 2 GE ..... Eagle Pass
Durce, Jack T., 2 PetE ..... Liberty
Durham, B. P., 2 ME ..... Slidell
Durham, H. D., 2 CE ..... Brownwood
Durham, M. F., 2 Sci ..... Crockett
Durham, Robert Wayne, 1 AA ..... Bryan
Durham, Robert Wayne, 2 CE ..... Bryan
Durrenberger, W. R., Spec Gen .... Bryan
Dutton, I. E., 3 Agr ..... Boyd
Duty, C. O., 1 ChE ..... Houston
Duvall, C. N., 1 ME ..... Olney
Duvall, Vinson L., 3 AgEd .... Burkburnett
Dwyer, C. F., Jr., 3 PetE .... San Antonio
Dwyer, S. J., 3 PetE ..... El Paso
Dwyer, W. H., 2 ME ..... Dallas
Dye, C. G., 1 LA ..... Brady
Dye, M. N., 1 AgEd ..... Goliad
Dye, R. L., Jr., 4 Agr ..... Claude
Dyer, J. P., 2 ME ..... Bryan
Dyke, H. H., 3 EE ..... San Antonio
Eads, R. B., 4 Sci ..... Bryan
Earley, D. C., 3 Agr ..... Brownsville
Earley, D. M., 1 ME ..... Brownsville
Early, F. D., 1 PetE ..... Linden
Easley, G. P., 4 AA ..... Caldwell
Easterly, G. H., 1 Agr ..... Kennard
Eaton, C. C., 1 PetE ..... Elkhart
Eaton, D. F., Jr., 3 AA ..... Decatur
Eaves, C. C., 3 Sci ..... College Station
Eberhard, H. E., 1 ME ..... Seguin
Eberspacher, C. T., 1 AA ..... Angleton
Echegaray, J. A., 2 VM ..... Lares, Puerto Rico
Echols, D. D., 1 ChE ..... Dallas
Echols, Marvin, 1 ChE ..... Henderson
Echols, M. M., 1 LA ..... Dallas
Echols, W. H., 2 AA ..... Barstow
Eckert, R. F., 1 EE ..... College Station
Eckert, R. P., 4 ME ..... Mason
Edens, L. L., 3 AgEd ..... Beckville
Eder, A. S., 1 PreVet, Long Island, N. Y.
Edge, C. L., 1 LA ..... Bryan
Edge, John E., 3 Sci ..... Bryan
Edge, R. D., 2 VM, Platteville, Wisconsin
Edmonds, B. J. G., 1 PetE ..... Marachibo, Venezuela, S. A.
Edmonds, J. W., 2 ME ..... Dallas
Edmondson, H. B., 1 Agr .... Mineral Wells
Edmundson, H. E., 1 AA ..... La Ponte
Edwards, E. T., 1 ME ..... Grandview
Edwards, F. M., 1 IE ..... San Antonio
Edwards, H. K., Jr., 1 PetE ..... Crowell
Edwards, H. T., 1 ME ..... El Paso
Edwards, J. E., 1 Agr ..... Stephenville
Edwards, J. H., 2 ME ..... Tulia
Edwards, LeRoy W., 4 Agr ..... Weslaco
Edwards, Roy J., 1 ChE ..... Dallas
Edwards, Robert J., 1 Agr ..... Gatesville
Edwards, Stacy W., 2 EA ..... Miles
Edwards, W. T., 2 AgEd ..... Rotan
Eeds, John R., 1 CE ..... Houston
Egner, P. O., Jr., 1 ME ..... Houston
Ehlers, V. W., 1 AA ..... Orange Grove
Ehlinger, J. W., 2 PetE ..... Brownwood
Ehrke, R. H., 4 EA ..... Brownwood

Eichblatt, E. E., 1 CM ..... Houston
Eichelmann, A. A., 1 ChE .... Tampico, Mex.
Eichholtz, Fred T., 1 PreVet ..... College Station
Eiland, J. D., 3 Agr ..... Wellington
Einhorn, R. W., 2 VM .... Passaic, N. J.
Eisenhauer, H. K., 1 AgEng .... San Antonio
Elbert, S. A., 1 LA ..... Galveston
Elder, G. P., 3 LA ..... Greenville
Elder, H. B., Jr., 1 PetE .... Camden, Ark.
Eldridge, J. O., 1 ME ..... Newgulf
Elkins, E. H., 3 Arch ..... Angleton
Elkins, V. J., Jr., 1 ME ..... Richland
Elliott, B. H., 2 PetE ..... Childress
Elliott, F. B., Jr., 3 ME ..... Vernon
Elliott, J. F., 1 ChE ..... Dallas
Elliott, R. C., 1 ME ..... Amarillo
Elliott, R. E., 2 ME ..... Houston
Ellis, H. B., 1 EE ..... Omaha
Ellis, C. L., Jr., 1 PetE ..... Waco
Ellis, E. C., 1 LA ..... Crockett
Ellis, H. P., 1 Agr ..... Mertzon
Ellis, Jr. M., Jr., 4 Sci .... Mt. Pleasant
Ellis, L. C., 1 ME ..... Dallas
Ellis, O. M., 2 AA ..... Edgewood
Ellis, Wm. R., 2 ChE ..... Brownwood
Ellison, C. J., 4 Agr ..... Van
Ellzey, J. G., 2 Agr ..... Cuero
Elmore, E. W., 1 ArchEng ..... Dallas
Elrod, H. E., Jr., 2 Arch ..... Houston
Elrod, R. B., 1 CE .... Texarkana, Ark.
Elston, J. H., 4 LA .... Elm Grove, La.
Elwell, C. D., 1 Sci ..... San Angelo
Elwell, R. C., 4 AA ..... San Angelo
Emmons, C. D., 2 AA ..... Plainview
Emmons, C. H., 3 AgEng ..... Plainview
Endres, M. J., 2 ME ..... Muenster
Enge, C. O., 4 VM ..... Bryan
Enge, P. C., 4 VM ..... Bryan
English, J. H., 1 IE ..... Gatesville
English, R. S., 1 LA ..... Crockett
Ennen, F. W., 2 PetE ..... Victoria
Enochs, J. P., 1 Agr ..... Eldorado
Epperson, J. E., 3 Agr ..... Rocksprings
Eppler, J. L., 1 LA ..... Eastland
Erck, A. W., 3 LA ..... Dallas
Erwin, C. P., 1 CE ..... College Station
Erwin, E. C., 2 ChE ..... Charlotte
Erwin, H. M., 4 TE ..... Dallas
Erwin, J. W., 1 PetE ..... Crowell
Erxleben, J. C., 1 LA ..... Ingleside
Espey, J. T., 2 PetE ..... San Antonio
Espy, H. T., 1 Agr ..... Sonora
Estes, W. P., 1 ChE ..... Midland
Eubank, G. R., 4 AA ..... Whitney
Eudaly, E. R., Jr., 2 AgEng ..... Bryan
Evans, A. D., 1 ME ..... Port Arthur
Evans, Andrew J., Jr., 4 PetE ..... Wichita Falls
Evans, F. L., 3 AA ..... Seymour
Evans, F. R., 2 AA ..... Neches
Evans, H. T., 3 VM ..... Dallas
Evans, J. E., 4 AA ..... Neches
Evans, J. G., 2 ME ..... Port Arthur
Evans, John, 1 Ag-Eng ..... Anna
Evans, J. W., 1 Sci ..... Plainview
Evans, Joe W., 2 AgEng ..... Weslaco
Evans, Kenneth G., 1 ChE ..... Port Arthur
Evans, L. G., 1 PetE ..... Dallas
Evans, M. F., 1 CM ..... McKinney
Evans, R. D., 3 Agr ..... Seymour
Evans, R. E., 1 PetE ..... Houston
Evans, R. G., 2 Agr ..... Rockwood
Evans, S. L., 1 EE ..... Deport
Evans, T. N., 2 ME ..... Teague
Evans, Walter L., 2 PetE .... San Antonio
Everett, Henry M., Jr., 2 AA, Stephenville
Everett, L. B., Jr., 2 Sci ..... Houston
Everton, Del M., 1 ME ..... Abilene
Everidge, Joe, 1 AA ..... Comanche
Everidge, R. B., 2 AA ..... Comanche
Ewing, B. D., 3 Agr ..... Olney
Ewing, Hunter H., 3 PetE ..... Mission
Ezell, B. P., 3 AA ..... Holland
Ezell, Harry, 2 Sci ..... Corsicana
Fagan, F. M., 3 ME ..... Grand Prairie
Fagan, J. G., 1 ChE ..... Stephenville
Fagan, T. T., 2 VM ..... Tivoli
Fagin, K. W., 2 PetE ..... Dallas
Falloure, C. E., 1 Sci ..... Sour Lake
Fallwell, John, Jr., 2 Sci ..... Dallas
Fallwell, W. J., 1 ChE ..... Dallas
Fannin, C. C., 3 PetE ..... Madisonville
Fant, C. B., Jr., 1 PetE ..... Linden
Farber, E. M., 1 ChE ..... Houston
Farmer, B. W., 2 Sci ..... San Antonio
Farmer, J. G., 1 ME ..... Dallas
Farquhar, N. B., 4 CE ..... Ennis
Farquhar, W. R., 1 PetE ..... Edna
Farrow, John E., 1 ChE ..... Itasca
Farrow, Joe P., 1 CE ..... Gilmer
Faubion, J. T., 3 ChE ..... Freeport
Faubus, A. O., 4 AA ..... Waco
Faulk, M. W., 3 ChE ..... Fort Worth
Faulkner, Brock, 1 Agr ..... Poteet
Faulkner, F. S., 3 Agr ..... Dublin
Faust, H. R., 3 VM ..... Comfort
Fazzino, D. J., 1 AgEd ..... Bryan
Featherston, H. E., 3 ChE ..... Ft. Worth
Feilner, R. L., 1 AA ..... Amarillo
Feinstein, Matthew, 2 VM, College Station
Felder, Ed A., 1 AA ..... Fort Worth
Feltenstein, H. D., 1 LA, Springfield, Ill.
Felts, W. M., 3 PetE ..... Fort Worth
Fennell, W. S., 1 Agr ..... Gilmer
Fenner, S. F., 2 ME ..... Houston
Ferguson, J. I., 1 AgEd ..... Del Valle
Ferguson, M. H., 2 Agr ..... Buda
Ferguson, Paul L., 2 AA ..... Wheelock
Fernandez, R. M., Jr., 1 VM ..... Bryan
Fernon, J. A., 1 PreVet ..... Houston
Ferris, O. D., 1 EE ..... Italy
Ffrench, L. A., 2 ChE .... Tampico, Mex.
Fickessen, J. W., 2 EA ..... Waco
Field, Fred, Jr., 1 AA ..... Prosper
Fields, Wendell, Jr., 2 LA ..... Houston
Fife, J. W., 1 EE ..... Terrell
Fike, T. L., 3 AA ..... Mart
Fillingim, T. A., 1 AA ..... Briscoe
Filsinger, H. J., 1 ME .... Mexico City, Mex.
Finch, R. D., 2 Agr ..... Edgewood
Finch, W. R., 4 Agr ..... Chatfield
Findley, H. L., 1 Sci ..... Hillsboro
Finger, E. J., 1 AA ..... D'Hanis
Finley, D. S., 3 AA ..... Fort Worth
Finley, R. F., 1 LA ..... Texarkana
Finney, E. R., 1 PetE ..... Fort Worth
Firnberg, R. A., 1 ME ..... Dallas
Fischer, A. O., 1 PetE ..... New Braunfels
Fischer, G. W., 1 PreVet ..... San Antonio
Fisher, C. H., 1 ME ..... Port Arthur
Fisher, E. E., 4 LA ..... Longview
Fisher, F. S., Jr., 1 ChE ..... Dallas
Fisher, S. M., 1 ME ..... Port Arthur
Fisherman, Frank, 4 VM ..... Big Spring
Fishman, A. D., 2 VM .... College Station
Fitch, D. R., 1 LA ..... Dallas
Fitch, W. D., 1 ChE ..... Dallas
Fittn, O. K., 4 AA ..... Shelbyville
Fitzgerald, J. L., 4 AgEng ..... Holliday
Fitzhugh, G. W., 1 Agr ..... Tolar
Fitzhugh, Lester, 3 AgEd ..... Tolar
Fitzhugh, P. P., 4 AgEd ..... Tolar
Flache, T. W., 4 AgEng ..... Brownfield
Flake, H. J., 4 AA ..... Houston
Fletcher, B. M., 2 AA ..... Sebastian

Flippin, Welch, 1 AA ..... Dike
Floore, Edgar L., 2 AA ..... Austin
Florence, M. E., 1 ME ..... Dallas
Flores, E. D., 2 LA ..... Rosebud
Florey, J. R., 1 ME ..... Henderson
Floyd, Fernando, 1 EE ..... Laredo
Floyd, J. T., 2 AA ..... Lufkin
Floyd, T. J., 1 ME ..... Navasota
Flynn, C. F., 3 AA ..... Chillicothe
Flynn, C. J., Jr., 1 ME ..... Victoria
Flynn, D. M., 2 ME ..... Cleburne
Flynn, R. M., 1 PRE VET ..... Rockville Centre, N. Y.
Flynn, W. C., 1 ChE ..... Marquez
Focke, J. H., 2 ME ..... Mexia
Foerster, C. O., Spec Agr ..... Rosenberg
Folk, R. G., Jr., 2 ME ..... El Paso
Fonville, C. A., 1 AA ..... Gainesville
Foote, D. A., 4 AA ..... San Antonio
Foran, W. J., 2 CE ..... Amarillo
Forbes, H. C., 3 Agr ..... Waxahachie
Force, H. H., 1 AA ..... Orange
Ford, C. L., 1 LA ..... Iraan
Ford, G. E., 1 Sci ..... Wichita Falls
Ford, J. A., 3 ChE ..... San Antonio
Ford, Jim M., 2 PetE ..... Normangee
Ford, J. T., 1 ArchE ..... Crockett
Ford, O. J., Jr., 2 PetE ..... Arlington
Ford, P. H., Jr., 1 AA ..... Abilene
Ford, T. A., 1 PetE .... Homer, Louisiana
Forehand, C. E., 2 Sci ..... Palmer
Forehand, T. L., 3 ME ..... Houston
Forester, O. F., 4 PetE ..... Smithville
Forman, A. A., 1 IE ..... Plano
Forman, J. J., 1 EE ..... Galveston
Formby, D. E., 2 AA ..... Italy
Forrester, Billy L., 2 ChE ..... Fort Worth
Fortenberry, Frank, 1 EE ..... Adrian
Fortenberry, Guy, 4 Agr ..... Greenwood
Fortson, Tom E., 3 VM ..... Houston
Foshee, R. J., 1 VM .... West Columbia
Foster, A. L., 1 ChE ..... San Antonio
Foster, Elmer L., 3 Agr ..... Dublin
Foster, G. P., 1 ME ..... Marshall
Foster, J. C., 3 ME ..... San Antonio
Foster, J. L., 1 Agr ..... Tulia
Foster, N. H., 2 Agr ..... Stratford
Foster, R. T., 2 Agr ..... Sterling City
Foster, T. G., 4 Agr ..... Pecan Gap
Foster, W. C., 2 Agr ..... Tulia
Fouts, J. F., 3 ChE ..... El Paso
Foutz, E. F., 1 ME, Oklahoma City, Okla.
Fowler, H. F., 3 PetE ..... Mt. Pleasant
Fowler, N. B., 1 PetE ..... Huntsville
Fowler, W. A., 1 ChE ..... Elgin
Fox, Robert L., 2 ME ..... San Antonio
Francis, D. H., 4 ChE ..... Marlin
Francks, B. C., 1 CE ..... Brady
Franks, S. J., 1 Agr ..... San Antonio
Franke, T. K., 4 AgEd ..... El Campo
Franklin, T. E., 3 VM ..... Amarillo
Franks, R. V., 1 PetE ..... Lufkin
Franks, W. A., 1 ChE ..... Galveston
Fraser, Wm. G., 1 PetE ..... San Antonio
Frazer, S. V., 2 EE ..... Wichita Falls
Frazier, F. A., 2 CE ..... Greenville
Freasier, Buck W., 2 AgEd .... George West
Freeborn, E. I., 3 Arch ..... San Antonio
Freeborn, R. Long, 1 ChE ..... Houston
Freeland, Robert Lewis, 1 Sci .. San Antonio
Freeman, J. J., 2 IE ..... Houston
Freeman, N. R., 1 Agr ..... Odessa
Freeman, W. B., 2 PetE ..... Telephone
Freeman, W. C., 3 AA ..... Bryan
French, E. C., 4 Arch ..... El Paso
French, G. D., 2 PetE ..... Waco
French, Leslie F., 2 CE ..... Abilene
Freund, C. L., 2 Agr ..... Austin
Fridel, F. A., 1 EE ..... Benchley
Friedline, Stanley, 3 ME .... Grand Saline
Friedrich, H. M., 1 AgEd ..... Bartlett
Frierson, J. E., 1 Agr ..... Haskell
Fritsch, Curtis P., 4 ChE .... San Antonio
Fritts, J. W., 2 ChE ..... Beaumont
Frobese, W. H., 1 ChE ..... Victoria
Frost, J. B., Jr., 1 LA ..... Bryan
Frost, R. M., 1 Arch ..... Dallas
Frost, W. E., 1 ME ..... Bonham
Fry, Jud G., 4 IE ..... Fort Worth
Fuermann, M. G., 2 LA ..... Laredo
Fugate, J. L., 3 AA ..... Houston
Fugler, V. D., 1 EE ..... Austin
Fullen, C. R., 1 ME ..... Dallas
Fuller, J. P., 2 Agr ..... Alice
Fuller, J. W., 1 Agr ..... Paint Rock
Fuller, Raymond J., 1 Agr ..... Cuthbert
Fullwood, E. F., 3 EE ..... Hereford
Fulton, G. W., 4 EA ..... Waxahachie
Fulton, W. S., Jr., 1 PetE .... San Antonio
Fults, Hulon, 1 LA ..... Egypt
Funderburgh, J. W., 4 AA ..... McKinney
Fuqua, P. F., 1 AgEng ..... Amarillo
Furley, Edmund, 1 Arch ..... Houston
Furry, Harlan, 3 ME ..... Beaumont
Fussell, J. E., 2 AA ..... San Augustine
Gabriel, G. D., 1 LA ..... Fort Worth
Gaddis, L. L., Jr., 4 EE ..... Borger
Gaffney, J. B., Jr., 3 AA ..... Freeport
Gaines, C. M., 1 PetE ..... San Antonio
Gallagher, J. J., 2 CE ..... Denison
Gallant, J. A., 3 AgEd ..... Medina
Gallaway, Bob M., 1 LA ..... Mercedes
Gallaway, C. C., 1 Agr ..... Olton
Gallaway, F. D., 2 CE ..... Waco
Gallaway, R. R., 1 Agr ..... Coleman
Galt, R. B., 2 ME ..... New Orleans, La.
Gambrell, R. D., 1 PetE ..... Dallas
Gammon, Wm. F., 2 EE .... College Station
Gandy, Dalton, 3 Agr ..... Eliasville
Gandy, H. L., 1 ME ..... Hemphill
Garcia, A. A., 2 ME, San Juan, Puerto Rico
Garcia, Hector M., 2 ChE ..... Brownsville
Gardner, J. S., 2 ME ..... Waco
Gardner, O. C., 2 AA ..... Dallas
Gardner, W. C., 2 CE ..... Waco
Gardner, W. W., 1 Agr ..... LaPryor
Garess, E. B., 2 Agr ..... San Antonio
Garner, Jack W., 2 CM ..... Houston
Garner, M. J., 1 LA ..... Wichita Falls
Garner, R. B., 2 Agr ..... Navasota
Garner, T. M., 1 AA ..... San Antonio
Garnett, W. L., Jr., 1 ME ..... Mexico City, Mexico
Garrett, C. L., 1 AA ..... Corpus Christi
Garrett, E. G., 3 AA ..... Marlin
Garrett, F. M., 3 AA ..... Frankston
Garrett, H. N., 1 AgEd ..... Point
Garrett, J. E., 1 ME ..... Sweetwater
Garrett, L. E., 4 ME ..... Pittsburg
Garrett, R. G., 2 VM ..... Henrietta
Garrett, S. E., 2 Land ..... Kerens
Garrett, W. S., Spec LA ..... Caldwell
Garrison, C. E., 2 Agr ..... Channing
Garrison, O. L., 4 Agr ..... Spur
Garrison, R. W., 3 Agr ..... Spur
Garth, G. S., 1 ChE ..... Dallas
Gary, A. E., 4 AA ..... San Marcos
Gary, G. D., 1 AA ..... Bailey
Garza, A. M., 4 ME ..... Eagle Pass
Gatewood, Sam, 1 EE ..... Cleburne
Gathright, E. G., 1 ME ..... Corsicana
Gattis, James L., 3 AgEng .... Pottsboro
Gault, J. B., 2 AA ..... Placid
Gaus, E. W., 1 EE ..... Hamshire
Gay, G. H., Jr., 2 ME ..... Houston
Geaccone, S. J., 1 AA ..... Houston

Gearhart, Bill, 1 VM ..... Marfa
Gearhart, B. F., 4 VM ..... Marfa
Geer, C. E., 2 AA ..... Westminster
Geer, G. M., 1 CE ..... Westminster
Gensberg, Sam, 2 VM ..... Sweetwater
Gent, O. F., 3 Agr ..... Killeen
Gentry, J. B., 2 PetE ..... Chillicothe
George, Warren, Jr., 1 ME ..... Palestine
Gerhardt, C. W., 1 ME ..... Wichita Falls
Gerhardt, E. L., 2 ChE .... Wichita Falls
Gerlach, A. E., Jr., 1 Arch .... Livingston
Gerlich, R. W., 3 ME ..... West
Germany, Joe A., 2 ChE ..... Greenville
Geyer, G. E., 1 AA ..... Bryan
Ghormley, R. E., 1 Sci ..... Abilene
Gibbons, Sam, 3 ME ..... Fort Worth
Gibbs, D. W., 4 Agr ..... Mabank
Gibbs, Joe W., 1 ME ..... Seguin
Gibbs, L. W., 4 Agr ..... Fort Worth
Gibson, C. Y., 1 ME ..... Bells
Gibson, F. A., 2 Agr ..... Golden
Gibson, G. B., 2 EE ..... Bryan
Gibson, J. B., 1 Agr ..... Trinity
Gibson, J. O., Jr., 3 GE .... San Antonio
Gibson, R. B., 2 EE ..... Jasper
Gibson, R. C., 1 Agr ..... Benjamin
Giese, H. C., 1 AA ..... West Point
Giesecke, W. K., 4 LA ..... Angleton
Giesenschlag, A. L., 1 AgEd ..... Lyons
Gilbert, C. A., 1 Agr .... Marianna, Ark.
Gilbreath, Lois, 2 Agr ..... Dublin
Gilchrist, Frank, 4 EA ..... Jacksonville
Gilcrease, H. M., 1 EE .... Shreveport, La.
Giles, D. R., 1 LA ..... Dallas
Giles, J. P., Jr., 2 ChE .... Okmulgee, Okla.
Gililland, J. V., 1 ME ..... Dallas
Gililland, W. J., 4 VM ..... Hereford
Gill, H. W., 2 EE ..... Houston
Gill, J. S., 1 ME ..... El Paso
Gill, W. R., 4 Agr ..... Ponta
Gillaspy, J. E., 3 Sci ..... Taylor
Gillespie, A. J., 3 Land ..... Alleyton
Gillespie, H. W., 2 Agr ..... Dallas
Gillette, F. H., 1 Agr ..... Columbus
Gillette, R. W., 2 PetE ..... Columbus
Gilliland, T. H., 1 AgEd ..... Navasota
Gilliland, W. E., 1 AgEd ..... Raymondville
Gillis, T. S., 1 LA ..... Ft. Worth
Gilmore, L. M., 1 ME ..... Dallas
Gilreath, J. P., 1 AA ..... Memphis
Gipe, O. J., 4 Agr ..... Denton
Gissler, J. E., 2 PetE ..... Dallas
Gist, H. L., 2 AA ..... Mt. Vernon
Given, S. B., 3 ME ..... El Paso
Glaser, L. T., 2 ME ..... San Antonio
Glass, M. M., 2 CM ..... Haskell
Glasscock, T. E., 1 ME ..... Sonora
Glasser, I. A., 2 ChE ..... Dallas
Glazener, E. R., Jr., 1 PetE ..... Fairfield
Gleason, B. A., 3 Agr ..... Hico
Glenn, G. F., 1 AA ..... San Antonio
Glenn, G. W., 1 Sci ..... College Station
Glenn, J. C., 4 ChE ..... Fort Worth
Gober, L. M., 1 PetE ..... Throckmorton
Goble, J. E., 1 ME ..... Waco
Gochicoa, C. A., 2 PetE .... Tampico, Mex.
Godbey, V. R., 1 AA ..... Bryan
Godbold, Roy, 2 PetE ..... Leakey
Godfrey, C. L., 4 AgEd ..... Naples
Godwin, B. M., 1 EE ..... Fort Worth
Godwin, C. J., 1 Arch ..... Bryan
Goff, R. R., 2 PetE ..... San Antonio
Goforth, R. G., 4 AA ..... San Marcos
Goforth, W. A., 1 Agr ..... Tolar
Gohlman, H. D., 2 EE ..... Houston
Gohmert, R. L., 1 EE ..... San Antonio
Gohmert, W. A., 1 LA ..... Alice
Goins, W. C., Jr., 1 ChE ..... Gladewater
Goldberg, L. C., 3 CE ..... Waco
Golden, J. E., 1 AA ..... Seymour
Goldston, J. M., 1 CE ..... Victoria
Golman, Philip, 2 LA ..... Dallas
Golston, J. R., Jr., 4 AA ..... Santa Anna
Golston, R. D., 1 AA ..... Fort Worth
Gomez, R. A., 1 ChE .... Mexico City, Mex.
Gonzalez, Cavlos, 1 Sci ..... San Juan, Puerto Rico
Gonzalez, Domingo, 1 Arch .. San Antonio
Gonzalez, R. P., 2 EE .... Lares, Puerto Rico
Good, E. B., 2 PetE ..... Houston
Goodbar, Blair, 1 ChE ..... Dallas
Goode, M. G., 1 CE ..... Dallas
Godlett, W. S., 2 Agr ..... Dunn
Goodloe, H. F., 4 Agr ..... Dallas
Goodman, W. G., 1 PetE ..... Galveston
Goodrum, J. B., 3 Agr ..... Colmesneil
Goodson, H. N., 3 AgEd ..... Comanche
Goodstein, A. L., 4 EA ..... Dallas
Goodykoontz, J. R., 1 ME ..... Sanderson
Gordon, G. D., 1 EE ..... Galveston
Gorman, G. D., Jr., 4 ArchE ..... Dallas
Gorzycki, G. C., 1 AA .... College Station
Gorzycki, L. J., 2 AA ..... Bryan
Gossett, E. M., Jr., 1 Agr ..... Shamrock
Gossett, R. B., 1 ME ..... Houston
Gottlieb, S. H., 3 ChE ..... Corsicana
Gough, H. A., 1 ME, Matehuala, Mexico
Gourley, Jack, 3 AgEng ..... Eastland
Gowan, H. R., 4 PetE ..... Estelline
Grabowski, G. J., 1 PetE ..... Los Fresnos
Grabowski, R. A., 1 PetE ..... San Benito
Grady, W. R., 1 ME ..... El Paso
Graham, A. R., 1 AA ..... Conroe
Graham, C. W., 1 PetE ..... Knox City
Graham, D. W., 2 Sci ..... Thorndale
Graham, John, 1 Sci .... College Station
Graham, O. B., 3 AgEd ..... Ralls
Graham, R. F., 2 ME ..... La Feria
Graham, Terrell, 4 AA ..... Megargel
Granfors, Wm. H., 2 EE ..... San Antonio
Granger, Dick B., 3 AE ..... Dallas
Grant, A. D., 2 ME ..... Dallas
Grant, Gordon R., 1 LA, Corpus Christi
Grantham, J. C., 1 LA ..... Houston
Grantham, J. R., 3 EA ..... McGregor
Granville, Wm. K., 1 Agr ..... Brady
Grasshoff, L. H., 2 EE ..... La Grange
Graves, R. W., 4 Sci ..... Houston
Graves, W. E., 1 ME ..... Victoria
Gray, Jack, 1 AA ..... Groom
Gray, Jack Douglas, 2 AgEd .... Rising Star
Gray, J. W., 1 ME ..... Bryan
Gray, K. A., 1 AA ..... Groom
Gray, S. G., 2 CE ..... Amarillo
Gready, L. S., 1 PetE ..... Wills Point
Green, E. V., 1 ME ..... Breckenridge
Green, F. C., 1 Agr ..... Oglesby
Green, H. O., 1 PetE ..... McKinney
Green, J. A., 1 ME ..... Dallas
Green, J. H., 2 AgEd ..... Paxton
Greenawalt, E. L., 1 AA ..... Lolita
Greene, C. R., Jr., 2 EE ..... Daisetta
Greene, C. R., 1 EE ..... Dallas
Greene, J. F., 2 ChE ..... Milford
Greenhalgh, R. A., 3 AA ..... Greenville
Greening, V. E., 4 VM ..... Fairfield
Greenlee, Homer, 1 PreVet ..... Comanche
Greenwald, W. J., 4 PetE ..... Sugar Land
Greenwell, W. P., 1 Agr ..... Woodlake
Greenwood, R. A., 3 AgEd ..... Bluff Dale
Greer, L. A., 1 ChE ..... Terrell
Greer, Queston, 2 PetE ..... Mexia
Gregg, G. T., 2 EE ..... Denison
Gregg, Paul, 2 Agr ..... College Station
Gregg, R. L., 4 Agr ..... Bryan
Gregoor, W. E., 1 AA ..... San Antonio

Gregory, E. L., 2 Agr ..... Era
Gregory, L. W., 4 EE ..... Silsbee
Gregory, P. R., 3 AgEng ..... Cristobal, Canal Zone
Gregory, P. R., 1 AA ..... Grapeland
Gregory, R. B., 1 AA ..... Nederland
Greig, A. J., Jr., 4 PetE ..... Houston
Grenader, Joseph, 1 PetE ..... Houston
Grennan, T. J., 2 VM ..... Bryan
Gresham, Gilbert, Jr., 1 CM .... Centerville
Grey, R. B., 2 ME ..... El Paso
Grice, J. L., 1 Sci ..... Houston
Griesenbeck, C. A., 4 Arch ..... Dallas
Griffin, B. O., 1 CE ..... San Antonio
Griffin, J. R., 3 Sci .... Blooming Grove
Griffin, J. S., 2 ME .... Blooming Grove
Griffin, R. R., 1 ChE ..... Crowell
Griffith, B. B., 2 CE ..... Sherman
Griffith, R. C., 2 PetE ..... Dallas
Grigg, Joe D., 1 Agr ..... McKinney
Grimes, E. F., 1 Agr ..... Meridian
Grimes, G. M., 1 PreVet ..... Houston
Grimes, M. L., 1 ME ..... Abilene
Grimland, C. J., 3 EE ..... Waco
Grimmer, G. G., 4 ME ..... Dallas
Grisham, W. T., 1 ME ..... Houston
Grissom, T. C., 2 AA ..... Richards
Griswold, G. M., 1 LA ..... Dallas
Grobe, R. B., 1 PetE ..... San Antonio
Grochoske, A. E., 2 AgEng ..... Mart
Grodhaus, R. F., 1 Sci ..... Baytown
Grohe, F. W., Jr., 4 VM ..... Bryan
Gross, J. L., 1 LA ..... Fort Worth
Grote, A. R., 1 Agr ..... Johnson City
Grote, G. H., 1 Agr ..... Mason
Grote, J. F., 3 Agr ..... Mason
Groulx, Bob B., 2 AA ..... Harlingen
Grover, L. M., 2 AA ..... Three Rivers
Guerra, V. H., 1 Agr ..... Roma
Guerrero, E. M., 2 AA .... Rio Grande City
Guest, G. M., 1 EE ..... Silverton
Guill, A. W., 2 ME ..... Memphis
Guilloud, E. J., Jr., 3 Agr ..... Dalhart
Guilloud, L. H., 1 ME ..... Pottsboro
Guinn, G. W., 1 EE ..... Waco
Guinn, R. N., 1 AA ..... Graham
Gulley, R. L., 1 LA ..... San Antonio
Gulley, J. H., 1 ME ..... Graham
Gummelt, E. F., 1 EE ..... Moulton
Gump, J. F., 3 PetE ..... Dallas
Gunn, A. D., 1 LA ..... Houston
Gunn, H. L., 2 AgEd ..... Mt. Pleasant
Gunter, J. J., 2 EE ..... Houston
Gunter, M. A., 1 AA ..... Kosse
Gutknecht, A. J., 3 VM, San Francisco, Cal.
Guy, H. N., 1 LA .... Shreveport, La.
Guy, W. T., 3 ME ..... Brady
Gwin, G. H., 2 ME ..... Houston
Haberer, W. E., 2 PetE ..... San Antonio
Haberle, D. L., 3 AA ..... Jacksonville
Habermann, W. F., 1 ME .... San Antonio
Habrnal, H. J., 1 AgEd .... Orange Grove
Hackedorn, B. M., 3 PetE ..... Houston
Hackett, R. E., 3 EE ..... Raymondville
Haenel, A. W., 2 AgEng ..... Austin
Haertig, W. M., 1 ME ..... Woodsboro
Hagan, E. E., 4 ChE ..... Dallas
Hagan, V. DePaul, 1 ME ..... Dallas
Haggard, C. R., 1 AA ..... Dallas
Hagler, G. F., 3 Agr ..... Joshua
Hagner, W. J., Jr., 4 PetE ..... Houston
Hagood, T. M., 2 ME ..... Paris
Hahn, A. A., 1 Agr ..... Westhoff
Hahn, A. W., 1 Agr ..... Columbus
Hahn, H. C., 4 Sci ..... Brenham
Hahn, R. R., 1 Agr ..... Westhoff
Haight, R. H., 2 VM.... Newport, California
Haikin, Michael, 1 PreVet ..... Houston
Haile, J. M., 4 EA ..... Corpus Christi
Haines, P. G., 2 AA ..... Bryan
Hainline, C. V., 1 CE ..... Sherman
Hale, B. B., 2 LA ..... Commerce
Hale, E. F., 1 EE ..... Mart
Hales, H. B., Jr., 1 Agr ..... Amarillo
Hall, Buford C., 3 ChE ..... Beaumont
Hall, Clarence, Jr., 2 ME ..... Marshall
Hall, H. H., 2 ME ..... Port Neches
Hall, H. L., 4 EE ..... Dallas
Hall, J. A., 1 ME ..... Cleburne
Hall, Jack Leroy, 2 CE ..... Tioga
Hall, James Lloyd, 1 ME ..... Rice
Hall, James O., 1 AgEd ..... Bryan
Hall, John W., Jr., 3 ME ..... Bryan
Hall, L. H., 3 AgEng ..... Amarillo
Hall, Marvin E., 1 AA ..... La Feria
Hall, M. I., 4 AgEd ..... Hughes Springs
Hall, R. C., 3 AA ..... Electra
Hall, R. L., 1 LA ..... Port Arthur
Hall, T. G., 3 ChE ..... Dallas
Hall, T. K., 2 ChE ..... Bryan
Hall, W. B., 3 Agr ..... Lindale
Halsell, H. H., 4 PetE ..... Lubbock
Haltom, C. C., 1 Agr ..... Bryan
Haltom, D. V., 1 Agr ..... Austin
Haltom, G. H., 4 ME ..... Grapeland
Haltom, G. T., 1 EE ..... Houston
Haltom, G. W., 1 EE ..... Fort Worth
Haltom, H. E., 3 PetE ..... Crosbyton
Ham, H. R., 2 ME ..... Van
Hambling, J. M., 3 ME ..... Paris
Hambrick, J. H., Jr., 2 AA ..... Houston
Hambrick, L. N., 3 ME .... College Station
Hamersly, J. W., 1 ME ..... Port Arthur
Hamilton, A. V., 2 ChE ..... McKinney
Hamilton, Curtis O., 1 AA ..... Dallas
Hamilton, D. J., 2 LA ..... Franklin
Hamilton, E. A., 4 Sci ..... Jasper
Hamilton, E. B., 4 ME ..... Dallas
Hamilton, O. W., 4 EE ..... Star
Hamilton, W. A., Jr., 3 CE ..... Dallas
Hamilton, W. S., 1 AA ..... Mt. Pleasant
Hamlett, E. H., 3 PetE ..... Pampa
Hamlin, John, 1 AA ..... Bonham
Hammock, J. R., 1 Agr ..... Sudan
Hammond, J. L., 2 ME ..... Wichita Falls
Hammonds, J. M., 3 ME ..... San Antonio
Hammons, Doil S., 1 ArchEng .... Knox City
Hammons, Miller, Jr., 1 AgEng ..... Donna
Hamner, A. H., 1 Agr ..... Waco
Hamner, C. H., 3 AA ..... LaFeria
Hamorszky, K. R., 4 VM ..... Bryan
Hampton, G. G., Jr., 4 VM ..... Bryan
Hampton, W. G., 1 Agr ..... Brady
Hanby, J. L., 3 AgEd ..... Mesquite
Hancock, C. O., 2 CM ..... Jayton
Hancock, J. B., 1 LA ..... Corpus Christi
Hancock, J. D., 3 CE ..... San Antonio
Hancock, R. M., 1 VM ..... College Station
Hancock, S. E., Jr., 1 AgEng .. Fulton, Ky.
Hander, T. W., 2 VM ..... Belton
Handley, E. M., 2 LA ..... Teague
Hankamer, P. C., 3 PetE ..... Sour Lake
Hanna, G. T., 4 EE ..... Brownsville
Hanna, R. H., 1 EE ..... Brownwood
Hannah, R. C., 2 ME ..... Port Arthur
Hanover, B. D., 1 Agr ..... Wheelock
Hanover, J. G., 3 CE ..... Wheelock
Hanrahan, W. E., 1 ME .... Okmulgee, Okla.
Hansen, H. A., 1 ME ..... Port Arthur
Hanway, J. P., Jr., 3 EE ..... Rockport
Harbin, A. V., 1 ChE ..... Mercedes
Harbin, J. B., 1 Agr ..... Mercedes
Harbison, J. M., 3 PetE ..... Crane
Hardage, L. R., 1 AA ..... Canadian
Hardee, Peck, Jr., 3 PetE ..... Mart
Hardeman, T. N., 1 PetE ..... Junction

Hardey, B. A., 1 LA .... Shreveport, La.
Hardie, Bradford, IIII., 1 ME ..... Dallas
Hardin, G. C., Jr., 2 PetE ..... Oakwood
Hardin, J. J., 1 Agr ..... Marion, Arkansas
Harding, J. D., 1 PetE ..... San Antonio
Hardison, R. M., 2 Land ..... Colorado
Hardy, A. E., 1 EE .... Shreveport, La.
Hardy, R. L., 4 ChE ..... San Antonio
Hargrove, B. D., 4 Agr ..... Troy
Hargrove, C. C., 2 ME ..... San Antonio
Hargrove, J. W., 1 PetE ..... Talco
Hargus, J. W., 1 ChE ..... Taft
Haring, C. H., 1 LA ..... Houston
Harlan, Wm. C., 1 ME ..... Maysfield
Harland, J. H., 1 AgEd ..... Redwater
Harle, R. M., 1 AgEng ..... Del Rio
Harper, F. L., 1 ME ..... Dallas
Harper, J. W., 1 PetE ..... Kosse
Harral, P. W., 3 EE ..... San Antonio
Harris, B. B., 4 Agr ..... Harrold
Harris, E. L., Jr., 1 LA ..... Navasota
Harris, E. R., 2 AgEd ..... Texarkana
Harris, E. W., 2 ChE ..... Harrold
Harris, G. G., 1 AA ..... Houston
Harris, H. D., 1 AgEng ..... Stratford
Harris, H. E., 1 LA ..... Raymondville
Harris, J. E., 1 ME ..... Dallas
Harris, J. H., 1 Arch ..... Dallas
Harris, J. J., 2 ChE ..... San Antonio
Harris, J. M., 2 AA ..... Center
Harris, J. P., 1 LA ..... Dallas
Harris, P. A., 3 Agr ..... Royse City
Harris, R. D., 1 ArchE ..... Dayton
Harris, R. L., 2 PetE ..... Fort Worth
Harris, S. E., 4 Agr ..... Georgetown
Harris, T. D., 3 VM ..... Dallas
Harrison, A. L., 2 PetE ..... Waco
Harrison, D. W., 1 Agr ..... Greenville
Harrison, E. D., 1 Agr ..... Jayton
Harrison, E. E., 1 LA ..... Houston
Harrison, G. F., 2 Sci ..... Abilene
Harrison, J. W., 1 ArchE ..... Dallas
Harrison, J. W., 1 ArchE ..... Paris
Harrison, L. A., 4 LA ..... Cisco
Harrison, T. R., 2 LA ..... Memphis
Harrod, J. C., 1 PetE ..... McAllen
Harry, H. E., 4 EE ..... Shreveport, La.
Harshey, J. R., 2 EE ..... Houston
Harshey, W. H., 1 EE ..... Houston
Hart, H. I., 1 PetE ..... New Boston
Hart, J. M., 1 ME ..... Houston
Hart, J. R., 2 Agr ..... Bremond
Hart, W. M., 3 AgEd ..... Springtown
Hartmann, F. W., 3 EE ..... Bayside
Hartt, O. R., 2 ME ..... Wichita Falls
Harvey, E. H., 1 ME ..... San Antonio
Harvey, F. B., 1 Agr ..... Wichita Falls
Harvey, W. K., 2 Agr ..... Spur
Harvill, V. A., 3 ME ..... Robstown
Harvin, A. K., 4 EE ..... Nacogdoches
Harwell, W. M., 1 PetE ..... Angleton
Haseman, J. D., 4 PetE ..... Dallas
Haskell, B. O., 1 Agr ..... Austin
Hass, R. R., 3 CE ..... Mission
Hasse, H. W., 1 Agr ..... Oakland
Hastings, W. L., 3 Agr ..... Duncanville
Hastings, W. V., 1 ME ..... San Antonio
Hatch, A. M., 1 Sci ..... Laredo
Hatch, W. E., 3 AA ..... Yoakum
Hatchett, W. S., Jr., 1 AA ..... Navasota
Hatka, O. R., 3 ME ..... Granger
Haug, E. W., 2 Agr ..... Marlin
Hauger, W. G., 1 AA ..... San Antonio
Hauser, H. F., 2 AA ..... Kerrville
Hauser, W. E., 1 PreVet ..... San Antonio
Hauser, W. J., 3 Agr ..... Kerrville
Hausman, H. L., 2 ChE ..... Laredo
Havlik, M. D., 1 CE ..... Moulton
Hawk, C. E., 2 PetE ..... Albany
Hawk, R. C., 1 Agr ..... Shamrock
Hawkes, J. P., 1 ME ..... Eagle Pass
Hawkins, W. W., 2 LA ..... Dallas
Hawthorne, E. J., 2 Agr ..... Mart
Hay, H. N., Jr., 2 Agr ..... Waco
Hay, R. H., 1 AA ..... San Marcos
Haydon, E. R., 1 Agr ..... San Angelo
Hayes, B. G., 2 ME ..... Houston
Haynes, F. P., 4 AA ..... Granger
Haynes, J. B., 1 AA ..... Lindale
Haynes, W. A., 1 PetE ..... Aspermont
Haynes, W. C., 1 ME ..... Raymondville
Haynes, W. L., 1 CE ..... Aspermont
Hays, Jack R., 4 Sci ..... Brady
Hays, V. E., 1 PetE ..... Kilgore
Hays, W. M., Jr., 2 PetE ..... Dallas
Hayward, J. G., 3 VM .... Gillette, N. J.
Head, C. R., 4 AgEd ..... Fort Worth
Hearns, J. B., Jr., 1 CE ..... Gatesville
Hearn, R. L., 3 ME ..... Bryan
Hearn, W. E., 1 Agr ..... San Angelo
Heartfield, W. L., 4 PetE ..... Beaumont
Heartsill, H. W., 2 AgEd ..... Weatherford
Heartsill, J. L., 3 AgEd .... Weatherford
Heath, J. A., 3 ChE ..... Henderson
Hefley, J. M., Jr., 1 AA .... Port Arthur
Heflin, A. A., 2 VM ..... Bryan
Heidenheimer, W. J., 2 PetE .... Galveston
Heierman, W. E., 1 ME ..... Austin
Heifrin, G. R., Jr., 1 Agr .... Weatherford
Heim, C. E., 2 Agr ..... Angleton
Heimann, C. E., 2 Agr ..... Penitas
Heise, C. S., 2 PetE ..... Luling
Heitkamp, C. W., 1 AgEng, New Braunfels
Heitkamp, R. L., 1 AA, New Braunfels
Heitmann, H. W., Jr., 2 ChE ..... Houston
Helfand, Max, 2 VM ..... Bryan
Heller, W. L., 1 Land ..... Alvin
Helmer, Chester, 1 ChE .... San Antonio
Helms, H. A., 4 EA ..... Bryan
Hemphill, J. A., 1 ME ..... Houston
Hendershot, J. R., 1 Sci ..... Harwood
Henderson, Douglas, 1 CE ..... Brandon
Henderson, J. F., 4 AA ..... Waelder
Henderson, J. R., 2 AgEd ..... Garland
Henderson, J. W., 1 Agr ..... Ozona
Henderson, L. W., 1 AA ..... Colorado
Henderson, Randall, 2 ArchE, San Antonio
Henderson, R. A., 3 AgEd ..... Eastland
Henderson, R. W., 1 AA ..... Houston
Henderson, T. S., 2 LA ..... North Arlington, N. J.
Hendon, W. L., 2 ME ..... Richland
Hendrick, Jack, 2 AA ..... Marlin
Hendrick, W. B., 3 EA ..... Fort Worth
Hendrick, Wm. G., 1 ME .... Hollis, Okla.
Hendricks, D. N., Jr., 2 ME ..... Houston
Hendricks, W. W., 3 AA ..... Melissa
Hendricks, W. Y., 1 PetE ..... McKinney
Hendrix, E. E., 4 ME ..... Dallas
Hendryx, J. W., 1 ME .... College Station
Henggeler, F. J., 3 EE ..... Brownsville
Henke, C. E., 1 Agr ..... Kerrville
Henley, R. W., 2 AA ..... Stephenville
Henry, Andrew Jackson, 1 LA ..... Wink
Henry, P. C., 1 ME .... Lake Charles, La.
Henry, P. R., 2 VM ..... Houston
Henry, S. S., 4 AA ..... Rocksprings
Henry, W. H., 1 Agr ..... Bryan
Hensel, E. C., 1 ME ..... Burlington
Hensel, F. W., 2 AA ..... College Station
Hensell, J. L., 3 Agr ..... Granbury
Hensler, H. L., Jr., 2 VM ..... Bryan
Hensley, Howard S., 2 ME ..... La Feria
Hensley, H. Sylvan, 1 PetE ..... Iago
Hensley, W. E., 1 ME ..... Houston
Heppard, G. R., 4 ME ..... Port Arthur

Herbert, D. B., 1 ME ..... Sanderson
Herbert, J. F., 1 Agr ..... Amarillo
Herbert, Preston, 1 Agr ..... Bryan
Hercher, J. B., 1 PetE .... Pine Bluff, Ark.
Herder, Henry, 3 ChE ..... Weimar
Herget, A. G., 1 LA .... Paragould, Ark.
Hering, J. K., 1 Agr ..... McGregor
Herman, O. C., 1 LA ..... Abilene
Hernan, E. J., 1 LA ..... Dallas
Hernandez, H. A., 2 EE ..... Ponce, Puerto Rico
Herren, C. H., 3 Agr ..... Rule
Herring, H. P., 1 EE ..... Clint
Herring, R. K., 2 ME ..... Vernon
Herring, T. N., 1 EE ..... Ennis
Herring, W. J., 2 ME ..... Mexia
Herrington, H. C., 1 EE ..... Palestine
Herrington, J. A., 2 ME ..... Waxahachie
Herrington, M. E., 1 ChE ..... LaRue
Herrmann, C. L., 1 Sci ..... Houston
Hertner, H. E., 3 AA ..... Amarillo
Hervey, James B., 1 Sci ..... Greenville
Herzik, S. W., 1 LA ..... La Grange
Herzing, D. J., 4 EE ..... Converse
Herzing, E. A., 2 AA ..... Del Rio
Hesley, R. D., 1 PetE ..... Galveston
Hess, E. C., 3 AA ..... Mt. Pleasant
Hess, F. J., 1 Agr ..... McLean
Hester, G. R., 1 PetE ..... Newgulf
Hetherington, T. F., 1 PetE .... San Antonio
Hewson, J. E., 4 ChE ..... San Antonio
Hickerson, T. J., 4 Agr ..... Rosebud
Hickey, H. C., 1 ChE ..... Gladewater
Hickman, I. N., 2 Agr ..... Rising Star
Hicks, T. R., 4 Agr ..... Stephenville
Hidwell, W. H., Jr., 3 Arch ..... Dallas
Hiebeler, O. J., 2 ME ..... Houston
Higginbotham, E. E., 1 PetE ..... Sherman
Higginbotham, F. R., 1 AA ..... Graham
Higgins, R. W., 1 Agr ..... Bastrop
Higgins, T. P., 2 EE ..... San Antonio
Higgins, W. S., 2 PetE ..... Victoria
Hiland, Joe., 1 PetE ..... Waco
Hilburn, A. D., 4 Agr ..... Dublin
Hilburn, B. B., 1 Agr ..... Dublin
Hill, A. C., 1 AA ..... Three Rivers
Hill, B. H., 1 PetE ..... Hillsboro
Hill, Carl, Jr., 3 AA ..... Amarillo
Hill, C. Wilbur, 1 Agr ..... Goldthwaite
Hill, C. Wayne, 1 ME ..... Mirando City
Hill, D. C., 1 PreVet ..... Hallettsville
Hill, Don K., 1 AA ..... Austin
Hill, E. E., Jr., 1 AA ..... Austin
Hill, G. C., 4 ME ..... Cleveland
Hill, Howard B., 2 PetE .... Wichita Falls
Hill, Harry B., 1 PetE ..... Dallas
Hills, H. S., 2 AgEd ..... Winnsboro
Hill, Roger C., 1 LA ..... San Antonio
Hill, R. E., 1 LA ..... College Station
Hill, R. G., 2 ChE ..... Mart
Hill, R. N., 1 Sci ..... Katy
Hill, T. D., 2 ME ..... Dallas
Hill, T. K., 1 ME ..... Hallettsville
Hill, Underwood, 1 IE ..... Onalaska
Hill, W. A., 1 IE ..... Three Rivers
Hill, Wm. Epps, 2 ME ..... Dallas
Hilliard, H. A., 1 LA ..... Caldwell
Hilton, C. S., 3 ME ..... Sinton
Hiltpold, H. W., 2 PetE ..... Bay City
Hinds, A. M., Jr., 1 AA ..... Tye
Hinds, J. T., 2 PetE ..... Cleburne
Hines, Jack G.,2 EE ..... Houston
Hinesley, J. D., 1 ME ..... Corpus Christi
Hingle, A. T., 3 ChE ..... San Antonio
Hinson, R. J., 1 PetE ..... Lufkin
Hinton, A. P., 1 PreVet .... San Antonio
Hipple, R. W., 2 AA ..... Arlington
Hiranandani, A. D., 4 Agr .. Karachi, India
Hobbs, R. L., 2 ME ..... Rice
Hobert, C. W., 2 AA ..... Munday
Hobert, E. S., 2 VM .... Garvin, Minnesota
Hobin, J. D., 4 Agr ..... Turnersville
Hobrecht, A. P., 2 LA ..... Dallas
Hodge, D. L., 3AA ..... Pledger
Hodge, F. M., 4 AA ..... Brownsville
Hodge, W. S., 1 AA ..... Houston
Hodges, C. W., 1 ME ..... Sweetwater
Hodges, M. B., 4 CE ..... Austin
Hodges, R. J., 1 Agr ..... Childress
Hodges, T. V., 1 PetE .... El Dorado, Ark.
Hoefle, M. B., 2 ME ..... Brazoria
Hoefs, Carl H., 4 PetE ..... Saragosa
Hoff, R. S., 2 EE ..... San Antonio
Hoffman, C. C.,1 PetE ..... Denton
Hoffman, H. J., 4 Agr ..... Somerset
Hoffman, Merwin, 1 Sci ..... Dallas
Hofmann, W. R., 3 Agr ..... Mason
Hogan, M. E., 2 AA ..... Waco
Hogue, A. J., 1 Agr ..... Paducah
Hogue, C. E., 4 LA ..... Denton
Holcomb, A. E., 1 Agr ..... Mt. Pleasant
Holcomb, J. W., Jr., 3 AgEd .... Meridian
Holden, Walter, Jr., 1 PetE ..... Bryan
Holder, Wesley Wm., 1 AA ..... Mart
Holder, L. D., 1 Agr ..... San Antonio
Holder, R. E., 1 Agr .... Sulphur Springs
Holekamp, J. C., 1 AA ..... Comfort
Holick, D. H., 2 CE ..... Dallas
Holland, Curtis R., 1 AA .... College Station
Holland, H. F., 4 AA ..... Abbott
Holland, I. J. C., 2 Agr ..... San Angelo
Holland, J. W., 3 AgEd ..... Hearne
Holland, W. H., 1 ME ..... Abbott
Holle, J. P., 1 ME ..... Big Spring
Holleman, T. R., 3 Arch ..... Sandia
Holley, J. H., 1 PetE ..... Lodi
Holliday, J. M., 1 ME ..... Waco
Hollier, R. G., 1 ME ..... Port Arthur
Holliman, E. J., 3 EE ..... Port Arthur
Hollimon, Charles, 1 Agr ..... Houston
Hollingsworth, J. F., 4 Agr ..... Sanger
Hollinshead, C. W., 1 ME ..... Marshall
Hollis, W. N., 1 EE ..... Abilene
Holloway, J. W., 3 Arch ..... La Grange
Holloway, T. L., 1 ChE ..... Alvin
Holm, E. G., 2 ChE ..... Houston
Holm, Norman, 2 VM ..... Tyler, Minn.
Holmes, B. D., 2 CE ..... Bryan
Holmes, H. C., 2 ME ..... San Antonio
Holmes, H. D., 1 PreVet ..... Call
Holmes, L. R., 2 ME ..... Harlingen
Holmes, R. W., 2 Agr ..... Silsbee
Holt, B. B., 3 ME ..... Weimar
Holt, Jack, 2 ME ..... Henderson
Holzheauser, J. D., 1 ME ..... Kingsbury
Holzheauser, W. D., 1 PetE ..... Kingsbury
Homan, C. C., Jr., 1 EE ..... El Paso
Homburg, J. E., 1 AgEd ..... Riesel
Homeyer, F. C., Jr., 1 Agr ..... Austin
Honey, N. M., 1 ChE ..... Mission
Hood, Cecil, Jr., 2 Arch ..... Sherman
Hooker, T. E., 2 AgEng ..... Stephenville
Hooker, W. A., 2 RE ..... Carthage
Hooton, G. T., 1 Agr ..... Daingerfield
Hooton, M. E., 1 AA ..... Daingerfield
Hooton, T. B., 4 AgEd ..... Daingerfield
Hoop, O. C., 1 Agr ..... Scottsville
Hopkins, C. M., 2 LA ..... Weatherford
Hopkins, J. H., 2 PetE ..... Palestine
Hopmann, U. C., 4 AgEd ..... Beasley
Hopper, Carl J., 2 CE ..... Grandview
Horak, E. F., 2 Sci ..... Needville
Hord, A. A., 1 ChE ..... Valley Mills
Horn, H. B., 4 AA ..... Plains
Horne, C. H., 3 VM ..... Bryan
Horne, T. M., 1 CE ..... Childress

Hornickel, Edward, 1 PreVet ..... Dallas
Hornkohl, F. J., 1 ArchE ..... Fort Worth
Hornkohl, G. R., 1 ArchE ..... Fort Worth
Hornsby, Rogers, Jr., 2 EE ..... Denison
Horovitz, P. H., 1 PreVet ..... Houston
Horstmann, A. H., 1 Agr ..... Buckholts
Horton, B. G., 4 AgEd .... College Station
Horton, Ben H., 4 AgEd .... College Station
Horton, C. M., 2 EE .... Alexandria, La.
Horton, D. T., 3 AgEd ..... Caradan
Hosch, A. E., 2 Agr ..... Salado
Hosek, J. J., Jr., 1 ME ..... Victoria
Hoskins, G. E., 1 EE .... Deming, New Mex.
Hough, L. E., 2 CE ..... Jefferson
Houghton, R. W., 1 ChE, Bartlesville, Okla.
Houser, F. H., 1 ME ..... Harlingen
Houston, Isaac T., 2 LA ..... Dallas
Hover, G. F., 4 VM .... Astoria, S. D.
Howard, F. G., 4 Agr ..... Pearsall
Howard, Gene, 2 AA ..... Austin
Howard, H. G., Jr., 3 CE ..... Pleasanton
Howard, J. N., Gr Econ .... College Station
Howard, J. P., 3 Sci ..... Lubbock
Howard, M. L., 1 ME ..... San Antonio
Howard, R. H., 3 LA ..... San Antonio
Howard, T. P., 1 IE ..... Pasadena
Howder, J. W., 4 VM, San Francisco, Cal.
Howe, R. W., 1 Arch ..... Dallas
Howe, Worth W., 3 AgEd ..... De Leon
Howell, C. A., 1 ArchE ..... Anna
Howell, H. J., Jr., 3 ChE ..... Gonzales
Howell, J. M., 1 EE ..... Denison
Howell, Shelby, Jr., 1 ME ..... Lamesa
Howeth, W. H., 1 EE ..... San Antonio
Howsley, L. A., 1 AgEd ..... Throckmorton
Hrdlicka, E. B., 4 AA ..... Bryan
Hubbard, Joe B., 2 AA ..... Sweetwater
Hubbard, K. W., 2 AA ..... Denison
Hubbard, T. L., 1 AgEd ..... Canton
Huckabee, J. R., 1 EE ..... Snyder
Huddle, R. S., 3 Agr ..... Lamesa
Hudgins, V. W., 4 ME ..... Bryan
Hudson, C. H., 4 PetE ..... Laredo
Hudson, J. W., 2 AA ..... San Antonio
Hudson, O. G., Jr., 4 ChE ..... Alpine
Hudspeth, W. L., 1 PetE .... San Antonio
Huebel, John, Jr., 3 ChE ..... Glidden
Huebner, G. R., 4 CE ..... Brenham
Huebner, M. T., 2 ME ..... Lane City
Huff, Dave O., 1 ME ..... Harwood
Huffaker, John, 4 EE ..... San Antonio
Huffman, H. A., 1 AA ..... Brady
Huffman, K. W., 1 Agr ..... Brady
Huffman, M. B., 3 AA ..... Harlingen
Huffman, R. D., 1 AA ..... Brady
Hughes, C. R., 4 Arch ..... Long Branch
Hughes, E. P., Jr., 1 LA ..... Bon Wier
Hughes, G. O., Jr., 1 EE ..... Sanger
Hughes, H. C., 2 LA ..... Galveston
Hughes, L. B., 4 VM ..... Waskom
Hughes, R. E., 2 Sci ..... Gainesville
Hughey, E. D., Jr., 1 PetE ..... Navasota
Hughston, J. Arch, 1 ME ..... Plano
Hugins, J. D., 3 VM ..... Omaha, Neb.
Hulsey, B. B., Jr., 4 EE ..... Forney
Hultsmann, Royce, 1 EE ..... Omaha
Humann, A. W., 4 ChE .... Tampico, Mex.
Hummel, H. E. J., 1 ME ..... San Antonio
Humphrey, J. R., 2 Agr ..... Point
Humphries, W. W., 3 Agr ..... Mart
Hundley, J. J., 2 LA ..... Dallas
Hunnicutt, W. R., 3 Sci ..... Bryan
Hunt, C. G., 2 AA ..... Mt. Pleasant
Hunt, G. O., 2 EE ..... Houston
Hunt, J. N., 2 VM ..... College Station
Hunt, O. T., 2 CE ..... Gunter
Hunter, A. D., 2 VM ..... Bryan
Hunter, H. M., 1 ChE ..... Dallas
Hunter, W. M., 2 Sci ..... Fairfield
Huntley, J. L., 1 AA ..... Greenville
Hurd, P. J., 4 ME ..... Brady
Hurley, B. R., 4 AgEd ..... Pottsville
Hurt, R. M., 1 ME ..... Dallas
Huser, G. A., 1 ChE ..... Donna
Hussey, C. P., 3 ME ..... Hereford
Hutcheson, C. E., 2 Agr ..... Pipe Creek
Hutchings, G. S., 1 Agr ..... De Walt
Hutchins, B. S., 2 ME, Atlantic, New Jersey
Hutchins, H. S., 2 ME ..... Dallas
Hutchins, P. M., 4 EE ..... Ysleta
Hutchison, B. H., 1 PetE ..... Wiergate
Hutchison, C. C., 1 Agr ..... Itasca
Hutchison, J. E., 1 Agr ..... Texarkana
Hynds, C. L., 1 ME ..... Waco
Iifrey, J. M., 1 AA ..... Houston
Ilschner, E. D., 1 Agr ..... Port Arthur
Imler, N. O., 2 Arch ..... College Station
Imperial, M. M., 1 ArchE .... San Antonio
Ince, D. B., Jr., 1 ME ..... Spur
Ingalls, L. L., 1 ME ..... San Antonio
Inglefield, R. H., 1 Sci, Bartlesville, Okla.
Inglehart, J. E., 1 ME ..... Brenham
Inglet, T. E., 1 ME ..... Willis
Ingram, H. E., 2 VM ..... San Antonio
Ingram, S. T., 2 EE ..... Vigo Park
Ingram, W. P., 1 Agr ..... Munday
Inman, E. E., 1 AA ..... Childress
Inman, M. B., 2 Agr ..... Childress
Inman, M. L., 3 VM ..... Bryan
Innes, J. R., 2 ChE ..... Center
Innocenti, A. A., 2 EE ..... Galveston
Irby, K. M., 2 AA ..... New Boston
Irvin, I. J., Jr., 2 AgEd ..... Glen Flora
Irvin, R. M., 2 AgEd ..... Wallis
Irwin, P. F., 2 Agr ..... Fort Worth
Irwin, R. S., 1 AgEd ..... Kosse
Isaac, V. C., 2 VM ..... Bryan
Isbell, J. A., 1 Agr ..... Haskell
Isbell, J. M., 1 CE ..... Wichita Falls
Isis, P. S., 4 Sci ..... Washington, D. C.
Itschner, B. F., 4 Agr ..... Elm Mott
Ivey, E. H., 2 ChE ..... Dallas
Ivey, F. A., 2 ME ..... Kerens
Ivie, Farris, 3 Agr ..... Forest
Jackson, A. L., 2 CM ..... New London
Jackson, B. Z., 3 PetE ..... Ottine
Jackson, Fred E., 2 PetE ..... Lubbock
Jackson, H. D., 1 Agr ..... San Angelo
Jackson, H. K., 4 ChE ..... Dallas
Jackson, J. H., 1 AgEd ..... Center
Jackson, L. L., 4 VM ..... Corsicana
Jackson, R. C., 3 EE ..... Houston
Jackson, R. L., 1 Agr ..... Austwell
Jackson, R. W., 4 PetE ..... Jacksonville
Jackson, S. L., 1 Agr ..... Rio Grande
Jackson, T. H., 1 LA ..... Waco
Jacobs, G. W., 1 EE .... Steubenville, Ohio
Jacobs, I. P., 2 ME ..... Dallas
Jacobs, L. L., Jr., 4 Agr ..... Dallas
Jacoby, J. J., 2 ME ..... Houston
Jacoby, P. W., 3 Agr ..... Menard
Jaggi, L. F., 2 EE ..... San Antonio
Jahnel, C. R., 1 AA ..... Gem
Jamail, H. D., 1 Sci ..... Houston
James, Archie, 1 PetE ..... Paris
James, A. M., 2 Agr ..... Dalhart
James, D. M., 1 PetE ..... San Antonio
James, H. P., 1 PreVet ..... Ohama, Ill.
James, J. W., 3 AA ..... Bryan
Jameson, H. E., 3 VM ..... Bryan
Jamison, J. D., 4 AgEd ..... Gorman
Janensch, W. C., 4 AA ..... Boerne
Janke, A. C., Jr., 1 ME ..... Galveston
Japhet, G. T., 2 ChE ..... Houston
Japhet, W. E., Jr., 1 Sci ..... Houston
Jardell, D. J., 1 LA ..... Vinton, Louisiana

Jared, G. B., 1 Arch ..... Lufkin
Jarrott, J. A., 1 EE ..... Freer
Jaska, L. B., 1 AgEng ..... Ross
Jaska, R. C., 2 EE ..... Ross
Jauer, W. E., 4 AA ..... Karnes City
Jeffrey, W. M., 2 AA ..... Port Arthur
Jeffries, A. B., 1 Agr .... Hot Springs, Ark.
Jenkins, A. N., 1 Arch ..... Amarillo
Jenkins, E. M., 2 LA ..... Hempstead
Jenkins, G. H., 1 Sci ..... Bynum
Jenkins, J. B., Jr., 4 Land .... Waxahachie
Jenkins, J. O., 2 LA ..... Village Mills
Jenkins, J. W., 3 AA ..... Dallas
Jenkins, O. L., 4 VM .... Gothenburg, Neb.
Jenn, W. C., 1 Agr ..... Houston
Jennings, C. B., 4 Agr ..... Fredonia
Jennings, H. H., 2 ME ..... Houston
Jennings, H. M., 2 IE ..... Groesbeck
Jennings, J. W., 1 AgEd ..... Fredonia
Jennings, L. H., 1 ME ..... Silsbee
Jennings, L. L., 1 AA ..... Winters
Jennings, T. B., 1 AA ..... Dallas
Jensen, H. F., 1 LA ..... Pampa
Jenson, J. G., 4 Agr ..... Coolidge
Jeppesen, R. J., 2 CM ..... Houston
Jeter, Jack, 1 EE ..... Seymour
Jeter, M. M., 4 LA ..... Sherman
Jhnatowicz, A. E., 2 VM ..... Bryan
Joeris, Leonard, 1 AA ..... Abilene
John, Jack W., 2 ME ..... San Antonio
Johns, H. T., 4 Agr ..... Floresville
Johns, N. W., 4 Sci ..... Boerne
Johnson, C. G., 4 Agr ..... Beaumont
Johnson, C. H., 2 AgEd ..... Atlanta
Johnson, C. M., 2 LA ..... Paris
Johnson, Charles Monroe, 4 AA .... Amarillo
Johnson, C. R., 1 PetE ..... Raymondville
Johnson, E. C., 1 PetE, Fort Sam Houston
Johnson, E. D., 2 AA ..... Houston
Johnson, F. C., 1 ME ..... Dallas
Johnson, H. O., 2 ME ..... Houston
Johnson, H. P., 3 AgEng ..... Paris
Johnson, J. C., 1 ME ..... Houston
Johnson, J. H., 2 EE ..... Melvin
Johnson, L. E., 2 VM ..... Sonora
Johnson, L. H., 3 PetE ..... Galveston
Johnson, P. G., 1 Sci ..... Tomball
Johnson, R. E., 1 PetE ..... Commerce
Johnson, R. G., 1 PetE ..... Amarillo
Johnson, W. G., 1 CM ..... Bryan
Johnston, A. D., 3 PetE ..... Victoria
Johnston, C. A., 4 PetE ..... Victoria
Johnston, C. R., 1 LA ..... Dallas
Johnston, F. M., 2 PetE ..... Trinidad
Johnston, J. M., 4 ChE .... Ardmore, Okla.
Johnston, J. W., 1 EE ..... Cisco
Johnston, L. R., 2 ME ..... Port Arthur
Johnston, O. F., 1 Agr ..... Trinidad
Joiner, S. E., 1 Agr ..... Childress
Jonas, R. C., 1 CE ..... Houston
Jonas, S. Mason, 3 PetE ..... Port Arthur
Jones, A. C., 3 ME ..... Galveston
Jones, A. T., Jr., 3 EE ..... Hamilton
Jones, B. F., 1 ME ..... San Antonio
Jones, B. L., 1 Agr ..... Ben Wheeler
Jones, Bob R., 4 VM ..... Bryan
Jones, B. S., 1 Agr ..... La Grange
Jones, Carroll E., 4 Agr ..... Olton
Jones, Claborne E., 1 PetE ..... Wink
Jones, C. J., 2 IE ..... Long Branch
Jones, C. K., 3 VM ..... Sweetwater
Jones, D. C., Jr., 1 EE ..... Bryan
Jones, D. S., 1 Agr ..... Latexo
Jones, E. C., 2 Agr ..... Grand Saline
Jones, E. E., 3 Agr ..... Santa Anna
Jones, E. L., 1 PetE ..... Buffalo
Jones, E. M., 1 ChE .... Little Rock, Ark.
Jones, F. N., 1 PetE ..... Olton
Jones, F. R., 1 EE ..... Palestine
Jones, G. A., 3 AA ..... Alpine
Jones, G. E., 2 PetE ..... Iowa Park
Jones, H. A., 3 EE ..... Waco
Jones, J. D., 1 VM ..... Bryan
Jones, Jack G., 2 Agr ..... Spur
Jones, J. L., 1 CM ..... Taft
Jones, J. M., 4 Agr ..... Crockett
Jones, J. McKinley, 1 LA ..... Bryan
Jones, J. P., 2 PetE ..... El Paso
Jones, J. R., 1 PetE ..... Waco
Jones, M. D., 2 ME ..... Fort Worth
Jones, M. E., 1 Agr ..... Tuscola
Jones, O. E., 1 Agr ..... Olton
Jones, O. J., 2 ChE ..... Irving
Jones, R. F., 2 Agr ..... Denton
Jones, T. L., 1 AgEng ..... Cisco
Jones, T. T., 3 PetE .... Little Rock, Ark.
Jones, V. B., 3 VM ..... College Station
Jones, V. T., 3 ME ..... Rosenberg
Jones, W. D. C., 1 Sci ..... Temple
Jones, W. D., 3 ChE ..... Odessa
Jones, W. E., 1 ME ..... Tulia
Jones, Walter T., 4 AgEng ..... Austin
Jones, William T., 1 EE ..... Dalhart
Jordan, Forest W., 4 Agr ..... Marfa
Jordan Franklin W., 1 ME ..... Buda
Jordan, G. L., 4 ME ..... Junction
Jordan, G. R., 2 ME ..... Dallas
Jordan, J. D., 1 AA ..... Art
Jordan, J. E., 1 ME ..... Overton
Jordan, Max C., 1 EE ..... Dallas
Jordan, R. F., 3 AA ..... Apple Springs
Jordan, R. L., 1 ChE ..... Tulia
Jorns, J. W., 2 ME ..... Houston
Jorrie, S. M., 2 LA ..... San Antonio
Joseph, S. S., 2 ChE .... Blytheville, Ark.
Jowers, Joe J., 1 Agr ..... Tye
Joyce, B. J., 3 AgEd ..... Rising Star
Joyce, B. O., 1 ME ..... Colorado City
Joyce, M. D., 2 ME ..... Grand Saline
Judd, A. F., 1 CE ..... San Antonio
Junge, E. B., 1 AA ..... Dallas
Jungemann, W. C., 1 ME ..... Falfurrias
Junghans, W. H., Jr., 3 AA ..... Waco
Jurcak, Louis, 3 Agr ..... Burlington
Kaden, J. H., 4 Land ..... Gainesville
Kahn, Abie S., 2 PetE ..... El Paso
Kahn, F. M., 4 ChE ..... Dallas
Kalling, F. P., 1 Agr ..... Garwood
Kane, Guy D., 1 CE ..... Houston
Kantz, J. T., 2 AA ..... Commerce
Kaplowitz, S. R., 4 VM .... College Station
Kappe, E. J., 1 ME ..... Cedar Lane
Karcher, A. H., 4 Agr ..... Giddings
Karcher, W. O., 1 AA ..... Giddings
Karin, Joel, 2 ChE ..... San Antonio
Kaspar, J. J., 1 LA ..... Ganado
Kauffman, A. L., 4 AgEd, College Station
Kaufman, Richard, 1 PetE .... San Antonio
Kawahata, Henry H., 3 AA ..... Hidalgo
Kay, E. E., 1 ME ..... Houston
Kay, E. M., 2 Agr ..... Tyler
Kay, Jack W., 3 PetE ..... Mt. Pleasant
Kebelman, F. L., 1 PetE ..... Rockville Center, N. Y.
Keck, E. T., 4 EA ..... Dallas
Keelan, J. P., 1 ME ..... Navasota
Keelan, L. F., 1 EE ..... Fairfield
Keese, C. J., 2 CE ..... Somerville
Keeter, C. M., 2 ME ..... Throckmorton
Keeter, J. J., 2 ME ..... Throckmorton
Keeton, E. R., 2 EE ..... Houston
Keirsey, R. L., 1 CE ..... Waco
Keiser, F. G., 1 Agr ..... Bandera
Keith, B. G., 3 ME ..... Borger
Keller, A. E., 3 PetE ..... Bryan
Keller, R. Fred, 1 Agr ..... Bryan

Keller, W. O., 3 PetE ..... San Antonio
Kelley, E. L., 4 VM ..... Utopia
Kelley, N. L., 2 PetE ..... Dallas
Kelling, Henry, 4 AA ..... Crawford
Kellis, J. C., 2 PetE ..... Orange
Kellog, C. C., 1 ChE ..... Houston
Kellog, W. G., 1 PetE ..... Port Isabel
Kelly, A. B., 1 LA ..... San Antonio
Kelly, E. E., 1 AA ..... Houston
Kelly, G. P., 1 ME ..... Dallas
Kelly, J. A., 1 ChE ..... Wiergate
Kelly, J. L., 4 AA ..... Minden
Kelly, L. W., 3 AgEng ..... Wellington
Kelly, P. L., 1 ME ..... Olney
Kelly, R. J., 1 PetE ..... Midland
Kemble, J. R., 1 PetE ..... Lott
Kemendo, Donald E., 1 ChE ..... Waco
Kemp, E. Larry, 1 ME ..... Omaha, Neb.
Kemp, J. C., Jr., 1 EE, Shreveport, La.
Kenagy, J. A., 2 AA ..... Von Ormy
Kennady, M. H., 3 AA ..... Fort Worth
Kennedy, D. C., Jr., 3 LA ..... Crockett
Kennedy, H. V., 1 PetE ..... Donna
Kennemer, L. C., 2 ME ..... Longview
Kennerly, I. F., Jr., 4 PetE ..... Houston
Kenny, R. D., 1 PetE ..... San Antonio
Kent, J. L., 2 PetE ..... Jasper
Kent, W. E., 2 ArchE ..... Jasper
Kerbow, K. W., 1 CE ..... Clarendon
Kerby, D. R., 1 PreVet ..... Goldthwaite
Kercheville, J. P., 4 Agr ..... Kyle
Kercheville, Lewis, 1 PetE .... San Antonio
Kerley, S. A., 4 LA ..... Sherman
Kernodle, J. D., 1 ChE ..... Bryan
Kerr, G. E., 2 IE ..... San Antonio
Kerr, John C., 3 ArchE ..... Amarillo
Kerr, J. K., 1 TE ..... McKinney
Kerr, W. A., 1 Agr ..... Corpus Christi
Kershaw, G. C., 2 ChE ..... Dallas
Kesner, Sam, 2 ChE ..... Dallas
Kessler, S. M., 2 VM .... Cementon, N. Y.
Kestler, C. M., 1 ME ..... Mineral Wells
Ketelsen, R. Paul, 1 LA ..... Houston
Key, D. C., 1 AA ..... Megargel
Key, Jesse T., 1 PetE ..... Corsicana
Kidd, A. E., 1 CE ..... Mineral Wells
Kidd, L. M., 4 ChE ..... Garland
Kiechle, Frederick, 4 ChE ..... Ballinger
Kielman, F. S., 2 PetE ..... Harlingen
Kielman, L. E., 1 PetE ..... Harlingen
Kiker, N. R., 1 AgEd ..... Bronte
Kilgore, L. T., 2 ChE ..... Dallas
Killingsworth, E. L., 2 CE ..... Rusk
Killion, M. O., 1 EE ..... Fort Worth
Killough, D. G., 4 EE .... College Station
Kilpatrick, L. L., 2 AA ..... San Angelo
Kilsdonk, R. A., 3 PetE ..... Dallas
Kimball, S. C., 2 LA ..... Paris
Kimbrough, E. T., 1 PetE ..... Athens
Kimbrough, I. T., 2 Agr ..... Childress
Kimbrough, J. A., 1 Agr ..... Haskell
Kimbrough, J. C., 2 Agr ..... Haskell
Kimbrough, W. M., 2 Agr ..... Haskell
Kincaid, J. V., 1 PetE ..... Dodd City
Kincannon, F. C., 2 Agr ..... Bruceville
Kincannon, J. A., 4 AA ..... Wellborn
Kincl, L. J., 1 ME ..... Taylor
King, A. K., 1 Agr ..... Wharton
King, Bert, Jr., 2 LA ..... Wichita Falls
King, C. M., Jr., 4 ChE ..... Fort Worth
King, F. J., 1 LA ..... Dallas
King, G. R., 1 PetE ..... Abilene
King, H. H., 2 AgEng ..... Algerita
King, J. C., 3 PetE ..... Ennis
King, John Newman, 2 AA ..... Paris
King, James R., Jr., 1 EE ..... Dallas
King, N. S., 1 IE ..... Merkel
King, R. E., 1 Agr ..... League City
King, T. S., 1 ME ..... Baytown
Kirby, Max M., 2 AA ..... White Deer
Kirby, T. C., 3 VM ..... Bryan
Kirchner, Cecil, 1 EE ..... Menard
Kirk, P. A., 3 EA ..... San Antonio
Kirkham, W. W., 3 VM .... Elizabeth, Ind.
Kirkland, D. G., 1 CE ..... Mart
Kirkland, D. O., 1 Agr ..... Chester
Kirklin, B. C., 2 ME ..... Brady
Kirkpatrick, C. V., 3 PetE ..... Houston
Kirschner, J. C., 1 LA ..... Austin
Kirven, P. E., 3 ME ..... Amarillo
Kishi, Yoichi, 4 EE ..... Houston
Kissinger, R. T., 1 AA ..... San Antonio
Kitley, D. R., 4 CE ..... Troup
Kitson, J. E., 2 VM ..... El Paso
Kizer, C. A., 3 PetE ..... Dallas
Kizer, J. C., 1 ME ..... Bellville
Klauber, Harry, 4 VM .... College Station
Klein, J. E., 2 VM ..... Bryan
Kleuser, C. W., 3 PetE ..... Dallas
Kline, V. A., 2 EE ..... Mineola
Kluender, E. C., 4 EE ..... Dallas
Klump, Virgil, 2 AA ..... Bartlett
Klusmire, W. F., 1 VM ..... Bryan
Knapp, K. K., 4 PetE ..... Houston
Knapp, P. W., 1 Agr ..... Houston
Knetsar, B. C., 4 AA ..... Houston
Knight, J. C., 2 AA ..... Rotan
Knight, J. E., 1 PetE ..... Electra
Knight, L. J., 1 PetE ..... Waco
Knight, W. G., 1 AA ..... Tyler
Knippa, A. J., 3 LA ..... Knippa
Knowlan, Frank, 2 ME ..... Victoria
Knox, E. M., 2 Agr ..... Burkett
Knox, J. W., 2 Agr ..... Harleton
Knox, M. E., 2 Agr ..... Harleton
Knox, R. M., 2 AgEd ..... Lovelady
Knutson, E. T., 1 AA ..... Rochelle
Kobayashi, Ty, 2 Agr ..... Webster
Koch, A. E., 4 CE ..... New Braunfels
Koehler, F. B., Jr., 1 CM ..... Cuero
Koehler, K. O., 3 PetE ..... Daisetta
Koelling, R. K., 1 EE ..... Fulton
Koemel, Fred, 1 ME ..... Robstown
Koenig, L. B., 1 ME ..... Bryan
Koenig, V. L., 2 AA ..... La Grange
Koetter, G. W., 3 Arch ..... Houston
Koetter, Juergen, 1 AA ..... Houston
Kolodzey, Martin A., 3 Arch .... Yorktown
Koonce, M. B., 2 Agr ..... Robstown
Kopit, J. E., 2 PetE, Providence, R. I.
Korth, C. L., 2 ChE ..... Boerne
Kothman, V. L., 3 VM ..... Mason
Kothmann, J. H., 1 Agr .... San Antonio
Krampitz, F. J., 1 AA ..... Sealy
Kreager, Karl G., 3 AA ..... Sherman
Krenek, P. H., 1 PreVet ..... Bryan
Kreuz, S. S., 2 VM ..... La Grange
Kreydorn, A. H., 1 ME ..... Seguin
Kribbs, E. E., 1 ME ..... Ranger
Krocker, R. A., 2 ArchE ..... Waco
Krogstad, S. F., 3 ME .... Langley Field, Va.
Kroll, C. A., 3 ChE ..... LaGrange
Krueger, L. R., 4 Sci ..... San Antonio
Krueger, W. F., 1 Agr ..... Riesel
Krug, K. E., Jr., 1 PetE ..... Brenham
Krutilek, G. E., 1 EE ..... Ennis
Kuban, J. F., 3 Sci ..... Fort Worth
Kubin, E. W., 1 AA ..... Bryan
Kubin, F. J., 1 AgEng ..... Bryan
Kuehne, W. A., 3 IE ..... San Antonio
Kulhanek, B. J., 1 AA ..... Waller
Kummel, V. M., 2 ME .... Lakewood, Ohio
Kuykendall, E. M., 1 EE ..... Needville
Kuykendall, I. D. L., 1 AgEd .... Fruitvale
Kuykendall, M. W., 2 ME ..... San Saba
Kyle, C. R., 3 Agr ..... Madisonville

Kyle, K. C., Jr., 1 AA ..... Tenaha
Kyle, R. L., 2 AA ..... Carthage
Kyzar, E. B., 2 Agr ..... Whiteland
Laborde, V. T., 1 Agr ..... Santurce, Puerto Rico
Lackey, J. C., 1 ME ..... San Antonio
Lackey, J. P., 3 EA ..... Rice
Lacy, James, 1 CE ..... Terrell
Lacy, N. N., 4 Agr ..... Millersview
Lacy, W. H., 1 Sci ..... San Antonio
LaFleur, C. C., 2 GE ..... Houston
Lafon, L. A., Jr., 2 Sci ..... Laredo
Lain, A. L., 4 Agr ..... Mt. Pleasant
Lain, T. E., 1 AA ..... Cleburne
Laing, R. D., 1 ME ..... Waskom
Lair, C. E., 1 IE ..... Anna
Laird, Joe A., 4 PetE ..... Houston
Laird, J. S., 1 AgEng ..... Crystal City
Lamb, J. W., 1 AA ..... Plaska
Lamb, M. L., 1 ME ..... Jericho
Lamberson, Jack L., Jr., 1 PetE .... Nome
Lambert, L. J., 1 Sci ..... East'and
Lambert, T. C., 1 Agr ..... Raymondville
Lamkin, Taylor, 1 Agr ..... Dallas
Lamm, J. R., 1 ME ..... George West
Lampin, Percy, 1 EE ..... Houston
Lancaster, L. R., 3 Sci ..... Ganado
Landers, Horace, 3 AgEd ..... Pittsburg
Landers, Jack, 1 AA ..... Joshua
Landers, O. R., 1 ChE ..... Joshua
Landon, C. R., 1 ME ..... San Antonio
Landon, Maxwell, 4 Sci ..... Dallas
Landrum, G. S., 1 CE ..... Dallas
Landrum, H. B., 1 PetE .... San Antonio
Landua, A. J., 1 ChE ..... Brenham
Lane, Fritz, 1 Agr ..... Cuero
Lane, G. C., 1 PetE ..... Rosenberg
Lane, J. R., 2 ChE ..... Houston
Lane, Sam W., 2 Agr ..... Cuero
Lane, Wesley I., Jr., 2 ME ..... Eastland
Lane, Wm. T., 1 CE ..... Jayton
Lane, Wm. W., 1 ME ..... Eastland
Laney, W. R., 2 Arch ..... Denton
Laney, Vester Wilson, 1 ME ..... Port Aransas
Lanford, R. C., 2 AA ..... Blankett
Lang, J. T., 2 Agr ..... Kurten
Lang, O. E., 1 AA ..... Kurten
Langdale, R. H., 2 ME ..... Galveston
Langdon, Wm. A., 3 PetE ..... Hutchins
Langford, E. K., 4 CE .... College Station
Langford, J. R., 1 AA ..... Bandera
Langford, R. I., 1 AA ..... Brady
Langston, J. B., 1 ME ..... Wink
LaPrelle, F. B., Jr., 2 ME ..... Houston
Larrey, L. A., 1 PetE ..... Houston
Larsen, L. G., 2 GE ..... Dallas
Larson, J. H., 2 Sci ..... Cleburne
Larson, K. E., 2 VM .... Evansville, Minn.
Larson, W. W., 1 VM, New Britain, Conn.
Lasell, A. D., 2 Land ..... Galveston
Lasley, Walter, Jr., 1 Agr ..... Stratford
Lass'ter, J. B., 2 PetE, El Dorado, Ark.
Latham, R. M., 3 Agr ..... Amarillo
Latham, R. E., 2 ME ..... Bowie
Lat'mer, C. E., 3 AgEd ..... Bogata
Laughlin, W. M., 1 Agr ..... Fremont
Law, B. F., 2 PetE ..... Alvin
Lawder, W. H., 3 LA .... Mobile, Alabama
Lawless, L. L., 2 LA ..... Bryan
Lawrence, Bill, 2 VM, Oceanside, Cal.
Lawrence, J. F., 1 VM ..... Dallas
Lawrence, O. V., 3 PetE ..... Brownsville
Laws, C. E., 1 PetE ..... Houston
Lawson, J. B., 2 PetE ..... Houston
Lawson, W. C., 1 Agr ..... Hamilton
Lawson, William E., 4 Agr ..... Gordon
Laycock, R. W., 3 AgEd ..... McLean
Lea, A. L., 1 ME ..... San Antonio
Lea, L. L., 1 EE ..... Marshall
Leary, Carl, 2 LA ..... Estelline
Leathem, T. H., 1 ME ..... Ennis
Leathers, J. B., 1 PetE ..... Jewett
Leathers, R. B., 2 VM ..... Blum
LeBlanc, G. R., 1 CE .... Monroe, La.
Ledbetter, J. P., 2 CE ..... Waco
Ledbetter, W. R., 3 ME ..... Waco
Leddon, W. H., 1 EE ..... Pearsall
Ledoux, C. W., 2 Sci ..... Sour Lake
Lee, J. S., 2 Agr ..... Sherwood
Lee, Knox, Jr., 4 EA ..... Marshall
Lee, R. E., 2 PetE ..... Waco
Lee, Walter M., 2 VM ..... Fort Worth
Leeman, S. P., 2 PetE ..... Dallas
Lefkofsky, L. J., 3 PetE .... Corpus Christi
Leftwich, J. B., 3 PetE ..... Mt. Pleasant
Leger, G. L., 1 PetE ..... China
Legett, B. H., 1 ME ..... Port Lavaca
LeGrand, W. H., 4 PetE ..... Bryan
Lehman, E. O., 1 PetE .... Corpus Christi
Lehman, R. N., 1 Agr ..... Waco
Lehmann, C. L., 2 Agr ..... Brenham
Lehmberg, W. R., 3 Agr ..... Mason
Leigh, G. E., 4 AA ..... Center Point
LeLaurin, S. F., 2 Sci ..... San Antonio
LeMay, Homer R., 1 PetE ..... Houston
Lemke, C. Julius, 1 EE ..... Waco
Lemly, F. L., 1 AA ..... Dallas
Lemm, P. J., 3 AA ..... Brenham
Lemmon, E. R., 1 Sci ..... Amarillo
Leonard, E. A., 1 ME ..... Laredo
Leonard, T. W., 1 AA ..... Dallas
Leopold, N. E., 1 PetE ..... Houston
LePage, A. C., 1 CE ..... Mission
LePage, H. S., 1 CE ..... Mission
Lepon, E. L., 2 VM ..... Bryan
Leslie, C. F., 1 AgEng .... San Antonio
Leslie, G. J., 1 AA ..... Bailey
Lester, Wm. E., 4 PetE .... West Columbia
Levine, L. A., 2 LA ..... Houston
Levine, P. W., 1 AA ..... Corsicana
Levy, George, 4 VM ..... Bryan
Levy, J. M. 1 ChE ..... Waco
Levy, M. L., 1 Sci ..... Dallas
Lewis, A. W., 2 ME ..... San Marcos
Lewis, B. T., 1 PetE ..... Sudan
Lewis, C. A., 2 AA ..... College Station
Lewis, C. F., 4 Agr .... Blooming Grove
Lewis, C. R., Jr., 3 EA .... College Station
Lewis, Elton, 2 AA ..... Neches
Lewis, E. M., 2 AgEng ..... Amarillo
Lewis, E. R., 1 ME ..... San Antonio
Lewis, F. R., 2 ChE ..... Uvalde
Lewis, G. R., 2 Sci ..... Canadian
Lewis, H. A., 2 PetE ..... Fort Worth
Lewis, H. S., 2 AA ..... Houston
Lewis, I. F., 1 AA ..... Mineral Wells
Lewis, J. E., 1 AA ..... Milford
Lewis, N. E., 1 CE ..... Jayton
Lewis, E. R., 2 PetE ..... Archer City
Lewis, R. W., 2 PetE ..... Wink
Lewis, T. M., 2 ME ..... Waco
Lewis, W. A., 2 EE ..... Jacksonville
Lewis, W. D., 3 PetE ..... Wink
Lewis, W. E., Jr., 4 IE .... College Station
Lichenstein, Morris, 2 CE ..... Dallas
Lichnousky, J. F., 1 PreVet ..... Nada
Lichty, D. L., 1 VM ..... Woodstock
Liebhafsky, H. H., 3 LA ..... Shiner
Ligon, J. B., 1 Agr ..... Ft. Stockton
Ligon, S. E., Jr., 2 ME ..... Pecos
Liles, K. W., 4 AA ..... Throckmorton
Lilly, Bob A., 3 AgEd ..... Crowell
Lilly, C. A., 2 ME ..... Fort Worth
Linam, C. J., 1 ME ..... Houston
Lindemann, W. G., 1 ChE ..... Industry

Lindsay, E. E., 1 ME ..... Houston
Lindsey, Jack, 1 Agr ..... Bryan
Lindsey, James, 4 AA ..... Cotulla
Lindsey, Ralph E., 2 Agr ..... Bryan
Lindsey, W. H., 1 Agr ..... Bryan
Lingle, R. J., 1 PetE ..... Houston
Lingold, J. C., 3 ME ..... Avinger
Link, J. B., 3 PetE ..... Fort Worth
Linn, Adolph, 4 VM ..... Bryan
Lippard, J. A., 3 CM ..... Waco
Lippert, W. M., 1 ME .... San Antonio
Lippman, L. J., 2 LA ..... Rosenberg
Lipscomb, G. M., 3 EE .... Port Arthur
Lipscomb, S. W., 3 AA, College Station
Lisman, R. A., 1 PetE .... El Dorado, Ark.
Litsey, R. R., Jr., 1 PetE ..... Sherman
Little, E. P., Jr., 2 ME ..... Texarkana
Little, I. C., 2 PetE ..... Dallas
Little, R. B., 2 ME ..... Dallas
Little, D. W., 1 AA ..... Elkhart
Littlefield, Rease, 1 EE ..... Waco
Littlejohn, J. H., 2 CM ..... Tulia
Littlejohn, T. M., 4 AA ..... Tulia
Littlepage, J. S., 4 ChE ..... Waco
Littlepage, T. H., 1 ME ..... Dallas
Livingston, B. R., 4 AA ..... Amarillo
Lloyd, B. J., Jr., 4 Sci ..... Austin
Lobrecht, G. J., 3 Land ..... Premont
Locke, O. C., 1 Sci ..... Houston
Locke, R. F., 2 VM ..... Washington, D. C.
Locker, H. M., 1 PetE .... Richland Springs
Loeffler, V. J., 1 Agr ..... Junction
Lofland, H. B., 1 LA ..... Rockwall
Loftice, L. C., 1 AA ..... Celina
Lofton, J. T., 4 TE ..... McKinney
Logan, J. B., 4 Sci ..... Sonora
Logan, R. M., 3 Agr ..... Georgetown
Loggie, W. D., 3 AA .... Wichita Falls
Loggins, L. D., 1 PetE ..... Marlin
Logie, A. J., 3 VM ..... Bryan
Lomax, E. B., 3 AA ..... Franklin
Lomax, K. H., 4 AgEd ..... Franklin
Long, C. S., 3 Agr ..... Archer City
Long, E. G., 1 AgEd ..... College Station
Long, P. H., 1 EE ..... Karnack
Long, R. K., 1 ChE ..... Port Arthur
Long, W. H., 1 EE ..... El Paso
Longmire, L. T., 1 EE, Alexandria, La.
Longoria, George, 2 Sci ..... Brownsville
Loomis, R. C., 1 PetE ..... Houston
Loomis, R. W., 3 ChE ..... Jefferson
Looney, M. P., 1 AA ..... Bryan
Loper, J. F., 4 EE ..... Teague
Lopez, Olaguibeet A., 2 VM ..... Hato-Rey, Puerto Rico
Lopp, Howard F., 2 VM ..... Bryan
Lord, C. W., 1 Sci ..... Millett
Lord, H. B., 1 Agr ..... Pandora
Lord, S. C., 2 Arch ..... San Antonio
Lorino, N. E., Jr., 1 AA ..... Houston
Lott, E. E., 2 Sci ..... Cleburne
Louderback, W. R., 2 AA .... Wichita Falls
Love, R. E., 1 LA ..... Houston
Love, T. M., 2 ME .... St. Louis, Missouri
Lovelady, A. P., 1 ME ..... Abilene
Loven, C. I., 2 CE ..... Paris
Lovil, W. C., 1 CE ..... Carthage
Loving, F. A., 2 ChE ..... Sherman
Lovoi, D. J., 3 PetE ..... Beaumont
Lowdon, J. G., 4 AA ..... Dallas
Lown, F. D., Jr., 2 Agr ..... Brenham
Lowndes, H. B., 2 ME ..... San Antonio
Lowrance, H. A., 4 ME ..... Cuero
Lowrie, G. R., 2 Agr ..... Terrell
Lowrie, J. D., 4 PetE ..... Terrell
Lowry, M. G., 2 Agr ..... Temple
Lowry, O. F., 1 ChE ..... Quanah
Lowry, Pat D., 1 CE ..... El Paso
Lowry, P. R., 2 LA ..... Beaumont
Loyo, Carlos, 1 ChE .... Tampico, Mexico
Lozo, R. D., 4 VM ..... Bryan
Lucey, D. C., 4 EE ..... McKinney
Luckenbach, A. A., 3 ME .... San Antonio
Ludeman, B. E., 2 Agr ..... Marysville
Ludeman, R. W., 4 EE .... College Station
Ludwig, J. P., 2 ChE ..... New Braunfels
Luker, C. T., 4 VM ..... Proctor
Lummus, L. H., 2 Agr ..... Bloomburg
Lundberg, G. A., 4 ME ..... Dallas
Luth, F. A., 1 PetE ..... Houston
Luther, F. J., Jr., 3 ChE ..... San Antonio
Lutrick, T. E., 1 AgEng ..... Hale Center
Lutz, H. H., 2 VM ..... Bryan
Lutz, M. E., 1 Agr ..... Henrietta
Lybrand, J. L., 1 LA ..... Greenville
Lyle, M. D., 1 Arch ..... Denison
Lyles, R. M., 1 LA ..... Angleton
Lynch, R. A., 2 LA ..... Point
Lyne, J. A., 1 PetE ..... Houston
Lynn, H. P., 2 ChE ..... San Angelo
Lyons, J. F., Jr., 3 LA ..... Fort Worth
Lyons, M. J., 1 AA ..... Baytown
Lytle, G. E., 2 AA .... Bartlesville, Okla.
McAdams, E. A., 1 ChE ..... Dallas
McAdams, W. B., 1 Agr, Grenville, N. M.
McAdams, Y. E., Jr., 1 AgEng ..... Grenville, N. M.
McAdoo, S. F., 2 Agr ..... Abilene
McAlexander, D. J., 1 Agr ..... Midway
McAlister, C. H., 1 AA ..... Bridgeport
McAnelly, B. C., 1 PetE .... San Antonio
McAnelly, E. C., 3 PetE .... San Antonio
McAnelly, J. E., 1 AgEd ..... Yancey
McAshan, R. B., 1 ChE ..... La Porte
McAuley, W. J., 2 ChE ..... Mt. Vernon
McBride, C. C., 1 AA ..... Dallas
McBride, H. J., 4 LA ..... Baird
McBride, J. L., 1 Arch ..... Lamesa
McBride, Martin, Spec VM .... Greenville
McBride, Warren, 1 PetE ..... Greenville
McBride, W. J., 2 Agr ..... Falfurrias
McCaleb, J. E., 2 AgEd ..... Kerrville
McCall, E. P., 3 LA ..... College Station
McCall, J. E., 1 ME ..... Dallas
McCall, M. W., 2 CE ..... Waco
McCall, R. H., Spec PetE ..... Waco
McCamish, J. N., 4 VM ..... San Antonio
McCann, J. R., 3 Agr ..... San Saba
McCarroll, C. W., 1 VM ..... Junction
McCarthy, L. J., Jr., 1 ME .... Fort Worth
McCaskill, R. E., Jr., 2 EE ..... Littlefield
McCaskill, S. E., 1 AA ..... Littlefield
McCaslin, J. W., 1 AgEd ..... Chillicothe
McChesny, D. R., 3 ChE ..... Del Rio
McClain, G. D., 1 VM ..... Crockett
McClain, N. B., 2 PetE ..... Fort Worth
McClellan, C. H., 1 AA ..... Jacksboro
McClellan, W. D., 4 EE ..... Bryan
McClintock, J. E., 1 Agr ..... Houston
McClish, Marcelle, 1 ME ..... Electra
McCluskey, H. B., 1 AA, Za Junta, Col.
McColloch, S. P., 1 PetE ..... Richmond
McCommas, E. L., 1 LA ..... Bynum
McCord, T. F., 3 Sci ..... Kingsville
McCormick, M. D., 4 GE .. Blooming Grove
McCorquodale, A. B., 1 PetE ..... Orange
McCorquodale, D. B., 4 PetE ..... Orange
McCoy, J. H., 3 AgEd ..... Eddy
McCoy, J. W., 2 VM ..... Dallas
McCoy, Kid, 1 PreVet ..... McLean
McCracken, D. H., 1 CE .... Muncie, Ind.
McCrary, J. W., 2 PetE ..... Denton
McCreary, W. P., 1 EE ..... Houston
McCreight, C. C., 3 PetE ..... Batson
McCrory, D. E., 4 AA ..... Waelder
McCrosky, T. G., 1 PreVet .... Bay City

McCullar, F. M., 3 ME ..... Kingsville
McCullough, H. T., 2 ME ..... San Antonio
McCullough, W. E., 1 AgEd .... Wheelock
McCurdy, B. B., 1 PetE ..... Gainesville
McCutchan, G. C., 1 Arch .... Fort Worth
McDaniel, A. A., 1 LA ..... Memphis
McDaniel, C. H., 1 Sci ..... Houston
McDaniel, C. R., 1 CE ..... Houston
McDaniel, H. H., 1 EE ..... Houston
McDaniel, W. W., 1 ArchE ..... Memphis
McDonald, E. E., 4 EE ..... Pineland
McDonald, H. E., 3 PetE ..... Fort Worth
McDonald, P. C., 3 PetE, Norphlet, Ark.
McDonald, R. H., Jr., 1 ME ..... Cleburne
McDonald, R. W., 2 Arch ..... Gregory
McDonald, S. A., 2 VM ..... Tarpley
McDonough, C. G., 1 PetE ..... Dallas
McDougal, W. J., 3 ME ..... Conroe
McDougald, H. O., 2 AgEd ..... Iola
McDuffie, J. C., Jr., 1 PetE .. San Antonio
McElhannon, W. R., 1 CE ..... Brady
McElroy, H. A., 1 CE ..... Alice
McElwrath, D. W., 2 Agr .... Raymondville
McEnroe, P. J., Jr., 1 ME ..... Bellville
McEver, A. O., 1 ME ..... Hillsboro
McFarland, A. M., 3 ME ..... San Antonio
McFarland, J. H., 3 EE ..... Flint
McGarr, J. P., Jr., 1 Agr ..... Plainview
McGee, B. R., 4 Agr ..... Sherman
McGee, L. C., 3 EE ..... Amarillo
McGee, W. N., 1 PetE ..... McAllen
McGill, H. N., 4 AgEng ..... Tyler
McGill, L. J., 1 AA ..... Tyler
McGill, T. C., 4 AA ..... Tyler
McGinness, J. E., Jr., 1 ME .... Houston
McGinty, H. Q., 1 ME ..... Barstow
McGloin, J. P., 2 AA ..... Corpus Christi
McGlothlin, E. W., 4 AA .... Marble Falls
McGovern, R. M., 1 TE ..... Dallas
McGowen, H. E., Jr., 2 ME ..... Cisco
McGowen, John R. C., 4 AA .... Amarillo
McGregor, J. I., Jr., 1 PetE ..... Houston
McGregor, W. S., 4 Agr ..... Bryan
McGuire, J. G., Spec Arch, College Station
McHaney, J. H., 1 CM ..... Sylvester
McHenry, A. C., 1 ME ..... Mission
McIlheran, R. C., 4 ME ..... Dallas
McIntire, C. R., 3 PetE ..... Brownsville
McIntyre, R. J., 2 PetE ..... Falfurrias
McKain, T. J., 2 ChE ..... Greenville
McKee, H. W., 1 AA ..... Center
McKee, J. B., 2 VM ..... Center
McKee, J. M., 3 EA ..... El Paso
McKellar, A. S., 1 LA ..... San Antonio
McKemie, E. B., 2 PetE ..... Dallas
McKenna, F. M., 4 ChE ....Brenham
McKenzie, J. B., 3 EE ..... El Paso
McKenzie, J. D., 4 AA ..... Clarksville
McKinney, H. R., 2 VM ..... Brownsville
McKinney, J. P., 2 ChE ..... Corsicana
McKinney, R. C., 1 ME ..... Childress
McKnight, B. J., 4 LA ..... Reklaw
McKnight, H. H., 1 LA ..... Dallas
McKnight, W. C., 2 AA ..... Gonzales
McLain, J. M., 2 PetE ..... Navasota
McLain, N. A., 1 LA .... Liberal, Kansas
McLarn, R. H., 1 EE ..... Fort Worth
McLarty, C. A., 1 PetE ..... Dallas
McLean, J. A., 2 AA ..... Calf Creek
McLen, O. M., 1 Agr ..... Palestine
McLendon, D. H., 4 GE ..... Pharr
McLerran, A. R., 4 ME ..... Cameron
McMahon, W. D., 3 PetE ..... Longview
McMaster, W. W., 1 Arch, Springfield, Ill.
McMichael, F. J., 1 Arch, Shreveport, La.
McMillan, N. N., 4 Agr ..... Mason
McMillan, W. D., 2 ChE .... Hughes Springs
McMinn, H. W., 2 Agr ..... Gouldbusk
McMurray, J. L., 1 PetE .... Cold Springs
McNamara, J. H., 4 IE ..... Orange
McNamee, L. C., 1 ChE ..... Marshall
McNeil, R. C., 1 PetE ..... San Antonio
McNeil, R. L., 2 ME ..... Ennis
McNeill, Shoultz, 1 Agr ..... Nacogdoches
McNiece, R. V., 4 Agr ..... Merkel
McNiel, J. J., 2 VM ..... Fort Worth
McNutt, W. H., 2 VM ..... San Antonio
McPhail, K. M., 1 LA, St. Petersburg, Fla.
McPherson, Harry, 3 PetE ..... Cleburne
McQueen, Woodrow, 1 CE ..... Chester
McQuillan, H. R., 1 AA .... College Station
McReynolds, J. M., 4 EE ..... Houston
McReynolds, W. M., 1 PetE .... Houston
McReynolds, Z. A., 2 EE ..... Palestine
McSpadden, R. L., 1 PetE ..... Amarillo
McWhirter, C. O., 1 AA ..... Greenville
McWhorter, H. C., 1 AA ..... Collinsville
Mabe, J. M., 2 ME ..... Eagle Pass
Maberry, A. A., 4 AgEd ..... Sylvester
Maberry, J. P., 1 Agr ..... Sylvester
Macinerney, E. F., 1 PetE ..... Galveston
Mackey, J. C., 3 Agr ..... Wortham
Macmanus, F. E., 1 ME ..... Brownsville
Maddox, A. W., 2 Agr ..... Miami
Maddox, F. O., 4 AA ..... Ennis
Maddox, L. A., 1 Agr ..... Miami
Maddox, N. M., 1 Agr ..... Miami
Maddux, N. F., Jr., 1 PetE ..... Pampa
Madeley, A. M., 2 Agr ..... Bryan
Madeley, Henry, 2 ChE ..... Temple
Maedgen, C. A., 4 VM ..... Mathis
Magee, F. L., 4 AA ..... Frost
Magee, I. B., 1 AA ..... Corpus Christi
Magee, R. M., 2 AgEng ..... Crowell
Mager, N. A., 2 ChE ..... Amarillo
Magill, W. H., 1 VM ..... Dallas
Maier, M. E., 2 VM ..... Orange
Main, E. H., 1 ChE ..... Terrell
Major, F. J., Jr., 2 VM .... College Station
Malitz, C. C., 1 ME ..... Beaumont
Mallard, A. K., 1 PetE ..... Houston
Mallard, G. K., 1 ME ..... Colorado
Mallo, R. G., Spec. Ento .....
..... Buenos Aires, Argentina
Malo, A. C., 3 Arch .... Mexico City, Mex.
Malone, S. I., 1 LA ..... Beeville
Maloney, C. W., 1 Agr ..... Berclair
Malsberger, Adrian, 1 LA ..... Houston
Mandell, B. P., 4 ME ..... Amarillo
Manes, R. E., Jr., 1 Agr, Russellville, Ark.
Mangold, C. H., 4 Agr ..... San Antonio
Maniloff, L. N., 2 PetE ..... Bryan
Manley, C. H., 3 ChE ..... Denison
Manly, R. L., 1 PetE ..... Houston
Mann, W. A., 3 Sci ..... Beaumont
Mann, W. N., 1 ME ..... Von Ormy
Manning, W. K., 1 Sci ..... Livingston
Manor, T. L., 3 EE ..... Port Arthur
Mansfield, R. W., 1 AA .... San Angelo
Maples, H. N., 3 PetE ..... Bonham
Marcello, C. J., 1 VM ..... Bryan
Marcia, A. F., 3 VM ..... Navasota
Marcontell, G. J., 2 AA ..... Port Arthur
Marek, S. J., 4 AgEng ..... Brenham
Mark, I. C., 3 VM ..... College Station
Markle, D. A., 4 AA ..... Port Neches
Marks, E. S., 2 AA ..... San Antonio
Marks, W. M., 4 ME ..... Beaumont
Markwardt, O. R., 1 AA ..... Roundtop
Maroski, W. P., 1 PetE ..... Waco
Marques, R. L., Jr., 4 AA ..... Brownsville
Marsh, C. B., 1 EE ..... Amarillo
Marsh, D. C., 3 Agr ..... London
Marshall, H. A., 1 PetE ..... Houston
Marshall, J. M., 2 AA ..... Gilmer
Marshall, K. J., 2 AgEd ..... Silsbee

Marshall, T. L., 2 AgEd ..... Temple
Marston, Chester, 1 PetE ..... Bonham
Martin, A. M., 2 ArchE ..... Bryan
Martin, C. A., Jr., 4 Agr ..... Menard
Martin, C. C., 2 ArchE ..... McGregor
Martin, C. D., 1 AA ..... Corsicana
Martin, C. Douglas, 1 Agr ..... Gilmer
Martin, C. S., Jr., 1 PetE ..... Waco
Martin, D. F., 4 Agr ..... Gilmer
Martin, D. R., 2 AA ..... Mart
Martin, D. W., 1 ArchE ..... Chester
Martin, F. H., 1 AgEd ..... San Antonio
Martin, G. A., 1 PreVet, Anquilla, Miss.
Martin, G. C., 1 CE ..... Gatesville
Martin, H. M., 1 PetE ..... San Antonio
Martin, J. C., 2 Sci ..... Perrin
Martin, J. D., 4 ME ..... San Angelo
Martin, J. E., 2 ME ..... San Antonio
Martin, J. T., 5 VM ..... Quitman
Martin, L. B., 3 Arch ..... Austin
Martin, M. H., 1 LA ..... Charlotte
Martin, M. M., 1 PetE, Shreveport, La.
Martin, M. T., 3 PetE ..... San Antonio
Martin, O. M., 2 EE .... Shawnee, Okla.
Martin, Paschal, 4 PetE ..... Gilmer
Martin, P. L., 4 Sci ..... Dublin
Martin, R. G., 3 AgEd ..... Cotulla
Martin, S. P., 2 Agr ..... Mason
Martin, S. S., 2 ME ..... San Juan
Martin, Ted, 4 Agr .... College Station
Martin, T. G., 2 ChE ..... Beaumont
Martinez, A. M., 1 EE ..... McAllen
Martinez, J. A., 1 EE ..... McAllen
Mascorro, Mercurio, Jr., 3 ME ..... Laredo
Mash, Noah, 3 VM ..... College Station
Mashburn, J. H., 3 IE ..... Childress
Mason, A. R., 2 Agr ..... Lovelady
Mason, C. L., 3 Agr ..... New Boston
Mason, J. P., 3 ME ..... Houston
Mason, P. M., 2 IE ..... Irene
Massey, B. E., 1 ChE ..... Pilot Point
Massey, H. C., 1 AA ..... George West
Massey, J. E., 1 AA ..... Houston
Massey, J. L., 2 PetE ..... Sulphur Springs
Massey, W. C., 1 Agr ..... Fort Worth
Masterson, F. C., 1 ME ..... Laredo
Matchett, C. R., 2 ChE .... London, England
Mater, C. G., 1 CM ..... Waco
Mathauser, J. F., 1 ME ..... Houston
Matheney, R. G., 2 VM, Corozal, Canal Zone
Mathes, C. R., 2 AA ..... Arlington
Mathews, G. C., 4 PetE ..... Houston
Mathews, Q. S., 3 Agr ..... Bangs
Mathews, R. C., 4 ME, Little Rock, Ark
Mathieu, L. G., 4 AgEng .... San Antonio
Mathis, E. W., 2 ChE ..... Amarillo
Matkin, W. A., 1 EE ..... Simmons
Matthews, B. W., 4 AgEd ..... Tyler
Matthews, C. C., 1 PetE ..... Taft
Matthews, J. B., 2 CM ..... Houston
Matthews, J. L., 2 Agr ..... Ft. Stockton
Matthews, L. H., 1 Agr ..... Jayton
Matthews, R. H., 1 EE ..... Alice
Matthews, W. E., 1 AA ..... Albany
Mattingly, W. J., 1 ME ..... Ingleside
Mattox, G. R., 1 ME ..... San Antonio
Matuh, F. J., Jr., 4 ME ..... Temple
Maufrais, J. H., 1 Arch ..... Austin
Maurer, J. J., 4 ChE ..... Pharr
Maverick, P. E., 1 PetE ..... San Angelo
Mavrico, A. G., 4 IE ..... San Antonio
Maxwell, Keith, 2 AA ..... Dallas
Mayberry, R. T., 1 ME ..... Laredo
Mayes, L. C., 4 AA ..... Paducah
Mayfield, D. M., 1 ME ..... Navasota
Mayfield, H. W., 4 AgEng ..... Commerce
Mayfield, J. A., 1 Agr ..... Weinert
Mayfield, W. L., 3 ME ..... San Antonio
Mayhew, C. M., 4 EA ..... Dallas
Mayhew, I. Q., 3 ME ..... Brady
Mayo, H. B., 1 PetE ..... Tyler
Mayo, W. P., Jr., 3 ME ..... Houston
Mazzagatti, R. P., 3 EE ..... Beaumont
Mazzara, V. B., 2 ChE ..... Galveston
Mead, L. H., 2 Agr ..... College Station
Mebane, P. M., 4 Agr ..... Lockhart
Medders, T. B., 2 Agr ..... Mart
Medellin, Phillip, 4 IE ..... Texarkana
Mefferd, R. B., 3 AgEd ..... Stephenville
Mefford, N. S., 2 CE ..... Fort Worth
Meine, F. F., 1 PreVet ..... Houston
Meisell, E. T., 2 Agr ..... Columbus
Meissner, J. R., 1 LA ..... Thorndale
Meister, A. G., Jr., 2 Agr ..... Pharr
Mejias, D. B., Spec. MSE ..... Caracas, Venezuela
Melancon, J. E., 1 PetME .... San Antonio
Melcher, M. A., 2 Sci ..... LeGrange
Melgaard, B. P., 1 PetE ..... San Antonio
Melman, Harold, 3 VM .. Washington, D. C.
Melton, C. H., 2 AgEng ..... Emhouse
Melton, J. J., 1 Arch ..... Sherman
Melton, J. L., 1 CE ..... Frankston
Melton, W. C., 3 ME ..... Mt. Pleasant
Mendieta, H. B., 1 ChE ..... Bruni
Menger, A. G., Jr., 1 AgEng .. San Antonio
Menger, R. W., 1 LA ..... San Antonio
Menzies, G. C., 4 Agr ..... Menard
Menzies, P. P., 3 Agr ..... Menard
Meredith, W. R., Jr., 1 Sci ..... Dallas
Meriwether, J. B., 3 CE .... Nacogdoches
Meriwether, N. A., 1 AA ..... Tyler
Merka, Edward, 1 AA ..... Bryan
Mernitz, J. C., 2 EE ..... Tivoli
Merrill, J. L., 1 Agr ..... Glen Rose
Merrill, W. C., 1 PetE ..... Greenville
Merrill, W. H., 1 Sci ..... Greenville
Merriman, O. O., 2 CE .... Tennessee Colony
Merritt, C. J., 3 AA ..... Maud
Merritt, W. W., 2 VM .... Porter, Minn.
Messer, G. E., 1 ME ..... Port Arthur
Meyer, L. J., 4 PetE ..... Palestine
Meyer, N. S., 3 CE ..... Texarkana
Meyer, P. H., 1 PetE ..... Navasota
Meynard, E. B., 3 ME ..... Cuero
Michaels, V. W., 2 VM .... Arverne, N. Y.
Michalk, G. H., 2 LA ..... Corpus Christi
Michalka, R. E., 3 ME ..... Cameron
Mikola, Harold, 2 Agr .... Brooklyn, N. Y.
Milam, R. A., 2 ME ..... Houston
Milburn, C. V., 2 PetE ..... Dallas
Mill, L. J., 2 AgEd ..... Glen Flora
Millar, J. T., 3 VM ..... Seabrook
Millard, M. R., 2 Agr ..... Tye
Miller, A. B., 3 EE ..... Bellvue
Miller, B. B., 2 ChE ..... Waco
Miller, B. J., 3 PetE ..... Athens
Miller, C. F., 3 PetE, Lake Charles, La.
Miller, C. O., 1 ME ..... Palestine
Miller, E. A., 4 Agr ..... Morton
Miller, Edwin B., 1 Land ..... Houston
Miller, Ernest B., 4 Agr ..... Big Lake
Miller, E. H., 3 ChE ..... Waco
Miller, E. S., 1 AA ..... Bryan
Miller, H. D., 3 VM ..... Tolar
Miller, I. J., 4 EE ..... Fort Worth
Miller, J. D., Jr., 1 AA ..... Thalia
Miller, J. L., 3 AA ..... Mineola
Miller, J. W., 1 AA ..... Temple
Miller, K. R., 1 AA ..... Dallas
Miller, Morgan, Jr., 1 ME ..... Premont
Miller, M. A., Jr., 1 EE ..... Beeville
Miller, P. G., 1 AA ..... San Antonio
Miller, P. T., 1 ME ..... China
Miller, R. I., 4 Arch ..... Bryan
Miller, T. B., 2 AA ..... Bryan

Miller, William, 1 PetE ..... Houston
Mills, C. C., 2 PetE ..... Houston
Mills, E. R., 3 EE ..... Weslaco
Mills, H. B., 4 VM ..... Big Spring
Mills, H. M., 4 Agr ..... Sterling City
Mills, J. T., Jr., 4 PetE ..... Pleasanton
Mills, M. A., 1 Agr ..... Pandale
Mills, R. Z., 2 ME ..... Van
Mills, V. E., 3 ME ..... Van
Millsap, W. W., 1 AA ..... Brady
Milner, R. A., 1 EE ..... Poynor
Mims, C. D., 3 PetE ..... Houston
Mingus, G. W., 4 AgEd ..... Iredell
Minnock, J. E., 2 ME ..... Galena Park
Minnock, W. A., 4 PetE ..... Galena Park
Minsky, Sol, 3 VM ..... College Station
Mitchell, B. E., 2 PetME ..... Marlin
Mitchel, B. N., 1 AA ..... Kosse
Mitchell, D. R., 4 Agr ..... Baird
Mitchell, G. P., 3 PetE ..... Galveston
Mitchell, J. W., Jr., 1 ChE ..... Kansas City, Kan.
Mitchell, Monty, 2 Agr ..... Quail
Mitchell, M. E., 3 PetE ..... Houston
Mitchell, R. S., 4 AgEd ..... Granbury
Mitchell, Z. F., 1 PetE ..... Longview
Mobley, B. R., 1 Agr ..... Trinidad
Mock, F. D., 1 PetE ..... Bloomington
Mack, R. P., 1 PetE ..... Wharton
Moehlman, Roger, 4 CE ..... Bryan
Moffitt, A. F., 4 PetE ..... Cuero
Mohle, A. W., 1 ME..... Lockhart
Mohr, C. A., 2 VM ..... Houston
Moisseioff, A. M., 1 PetE .... San Antonio
Moller, W. E., 1 VM ..... Alvin
Molt, C. B., 1 PreVet ..... Hinton, Okla.
Molt, F. L., 4 VM ..... Hinton, Okla.
Monroe, J. D., 1 ME ..... Bryan
Monroe, J. P., 2 EE ..... Houston
Montesinos, Mario, Spec MSE .... Barquisimeto, Venezuela, S. A.
Montgomery, J. M., Jr., 1 ChE ..... Dallas
Montgomery, J. W., 1 LA ..... El Paso
Montgomery, W. J., 2 PetE ..... Mason
Montoya, Gregory, 2 LA .... Corpus Christi
Monzingo, H. W., 1 ME ..... Hallsville
Moody, E. L., 1 CE ..... San Benito
Moon, A. J., 2 EE ..... Port Arthur
Moon, H. H., 1 Agr ..... Belton
Mooney, G. A., 4 EA ..... Denison
Mooney, T. W., 1 AgEd ..... Hearne
Moore, C. E., 1 ME ..... Waco
Moore, C. W., 3 PetE ..... Pasadena
Moore, E. E., 1 AA ..... Mart
Moore, F. H., 1 LA ..... Augusta
Moore, G. N., 2 VM ..... San Saba
Moore, H. D., 1 PetE ..... Ft. Worth
Moore, H. J., 1 LA ..... Houston
Moore, J. B., 2 ME ..... El Paso
Moore, J. D., 3 PetE ..... Sweetwater
Moore, J. H., 4 PetE ..... Alvin
Moore, J. M., 4 Sci ..... Carthage
Moore, J. W., 4 Agr ..... Alvin
Moore, Luke, 1 ME ..... Waco
Moore, M. E., 1 AA ..... Dallas
Moore, M. J., 1 PetE ..... Fort Worth
Moore, N. A., 4 LA ..... Decatur
Moore, Paul J., 3 PetE ..... San Antonio
Moore, R. L., 1 Agr ..... Ovalo
Moore, R. M., 4 Agr ..... McAllen
Moore, T. A., 1 PetE ..... Longview
Moore, T. O., 1 ChE ..... San Juan
Moore, W. A., 2 EE ..... Clinton
Moore, W. P., 1 CM ..... Bryan
Moore, W. Ross, 1 IE ..... Dallas
Moore, William Richard, 3 ME .... Munday
Moore, W. T., 2 LA ..... Bryan
Morehead, R. M., 3 AgEd ..... Bryan
Morehead, S. E., 3 AA ..... Bryan
Moreland, B. M., 2 AgEd ..... McKinney
Morgan, C. O., 2 VM ..... Houston
Morgan, H. L., 1 Sci ..... Houston
Morgan, I. A., Jr., 3 AA ..... Marshall
Morgan, J. O., 3 AA ..... College Station
Morgan, J. T., 1 LA ..... Gladewater
Morgan, M. E., 1 LA .... Rodessa, La.
Morgan, T. H., 2 ME ..... Roxton
Moritz, C. W., 1 ChE ..... Port Arthur
Morris, J. A., 3 Agr ..... Lindale
Morris, J. H., 1 EE ..... Athens
Morris, J. S., 4 Agr ..... Valley Mills
Morris, J. W., 2 PetE ..... Ranger
Morris, K. H., 1 ME ..... Valley Mills
Morris, O. H., 1 AA ..... Terrell
Morris, R. C., 1 CE ..... Winnsboro
Morris, R. D., 1 CM ..... Henderson
Morris, W. C., 4 EE ..... Shreveport, La.
Morris, W. T., 1 ChE ..... Hemphill
Morrison, W. E., 1 Sci .... Bartlesville, Okla.
Morrison, W. G. B., 1 ME ..... La Porte
Morrow, B. B., 1 ME ..... Waco
Morrow, E. H., 1 AgEd ..... Kaufman
Morse, C. S., 1 ME ..... Brownsville
Morse, R. E., 1 Arch ..... Houston
Morse, R. G., 1 ME ..... Brownsville
Morse, S. A., 1 ME ..... Willis
Morton, J. F., Jr., 1 PetE ..... Sabinas Hidalgo, Mexico
Morton, Naylor, 1 Agr ..... San Antonio
Moseley, E. A., 1 Agr ..... Sierra Blanca
Moseley, E. L., 1 CE ..... Marshall
Moseley, H. M., 3 Arch ..... Dallas
Moseley, J. C., 3 CE ..... Mansfield
Moseley, J. J., 2 Land ..... Quanah
Moser, E. E., 2 AA ..... Stephenville
Moser, R. D., 1 AA ..... Stephenville
Moser, R. S., 4 AgEd ..... Stephenville
Mosesman, A. B., 2 ChE ..... Dallas
Mosher, W. L., 2 ME ..... Dallas
Moseley, W. O., 4 AgEng ..... North Zulch
Moss, C. W., 4 AA ..... Chireno
Moss, E. J., 1 VM ..... Llano
Moss, J. A., 1 EE ..... San Antonio
Mosty, C. H., 4 Agr ..... Center Point
Mostyn, H. B., 3 VM ..... Conroe
Mostyn, T. E., 1 Agr ..... Conroe
Motheral, J. R., 4 LA ..... Bryan
Mothes, F. G., 4 Arch ..... Seymour
Motley, Z. C., 1 AA ..... Abilene
Motz, G. J., 2 Agr, Greens Village, N. Y.
Moudy, C. E., 3 ME ..... Nevada
Moudy, J. A., 1 AA ..... Nevada
Moughon, B. C., 3 VM ..... Lufkin
Mousner, Leonard, 2 AA .... College Station
Mozisek, A. R., 4 ME ..... Weimar
Mueller, C. A., 3 Agr ..... Kenedy
Mueller, C. P., Jr., 2 PetE .... San Antonio
Mueller, G. L., Jr., 2 VM .... Alton, Ill.
Mueller, W. L., 3 Sci ..... Kenedy
Muennink, O. A., 1 Agr ..... George West
Muhl, J. H., 1 ChE ..... Waco
Mujica, M. A., 1 AgEng ..... Juncos, Puerto Rico
Mullen, W. C., 4 ME ..... Fort Worth
Mullins, O. E., 4 VM ..... Bryan
Mulvey, J. R., 2 PetE ..... Houston
Mundell, R. E., 1 AA ..... Killeen
Munson, R. M., 1 CM ..... Columbia
Murdock, R. D., 1 PetE ..... Dallas
Murphy, A. R., 2 PetE .... El Dorado, Ark.
Murphy, D. W., 4 LA ..... Harlingen
Murphy, E. Y., 3 Agr ..... Snyder
Murphy, J. A., 3 PetE ..... Waco
Murphy, M. M., 1 ME ..... Brownwood
Murphy, P. L., 3 ME ..... Lufkin
Murray, G. O., 4 Agr ..... Bryan

Murray, H. F., 1 Agr ..... Austin
Murray, J. G., 2 ME ..... Merkel
Murray, J. H., Jr., 1 EE ..... Commerce
Murray, R. J., 3 LA ..... Whitney
Murray, W. H., 3 LA ..... Eagle Pass
Murry, A. L., 1 Agr ..... Miami
Muse, E. C., 1 PetE ..... Fort Worth
Muse, J. W., 3 Sci ..... Dallas
Mushaway, G. L., 2 PetE ..... Houston
Musick, K. C., 1 CM ..... Tulia
Muska, F. R., Jr., 2 EE ..... Rockport
Musselman, P. A., 2 EE ..... Inez
Muston, C. G., 3 AgEd ..... Rockdale
Myers, P. V., 1 ME ..... Houston
Myers, R. V., 1 ME ..... Harlingen
Myers, W. H., 1 PetE ..... Munday
Mylius, M. F., 1 ME ..... San Antonio
Mynatt, V. S., 2 VM ..... Stephenville
Naborney, Erwin, 2 ChE ..... Greenville
Nabors, N. G., 4 ME ..... Little Elm
Nalley, J. Robert, 2 ME ..... Waco
Nance, E. C., 1 AgEd ..... Kyle
Nance, J. D., 1 CE ..... San Antonio
Nance, N. H., 4 Agr ..... Lometa
Nash, J. B., 1 Agr ..... Normangee
Nash, W. N., 4 AA ..... Leona
Nassauer, George, 2 PetE .... San Antonio
Nathan, C. C., 1 ME ..... Paris
Nathan, W. R., 3 VM ..... Bryan
Naughton, J., 4 Agr ..... Waxahachie
Naylor, H. L., 2 ArchE .... Wichita Falls
Naylor, J. K., Jr., 1 PetE .... San Antonio
Nayovitz, B. W., 2 PreVet .. College Station
Neal, R. L., 3 AA ..... Forney
Neale, B. M., 4 ChE ..... Denton
Neale, H. J., 2 AA ..... Denton
Neas, C. V., 2 AgEng ..... Abilene
Nedbalek, E. W., 1 PetE ..... Bryan
Neeb, H. L., 1 Agr ..... Brownwood
Neece, L. C., 4 AgEng ..... Mobeetie
Neeley, Price, 4 Agr ..... Decatur
Neeley, T. C., 1 AgEng ..... Brookston
Neeley, A. G., 3 PetE ..... Bryan
Neely, H. S., 1 AgEng .... Throckmorton
Neighbors, A. H., 2 Sci ..... Seguin
Neill, D. W., 1 AA ..... San Antonio
Nelms, H. H., 1 LA ..... Dallas
Nelson, E. H., 1 ChE ..... Waco
Nelson, L. J., 2 Sci ..... Gilmer
Nelson, R. E., Jr., 1 AA ..... Galveston
Nelson, W. R., 2 ChE ..... McKinney
Nesrsta, L. R., 1 LA ..... Flatonia
Ness, L. P., 2 ME ..... College Station
Nester, W. C., 2 Agr ..... Hondo
Netherland, B. E., 1 TE ..... Waco
Netting, C. J., 2 PetE ..... San Antonio
Neu, J. T., 1 ChE ..... Commerce
Neubert, S. T., 3 VM .... College Station
Neuhardt, H. P., 1 ChE ..... Amarillo
New, H. F., 4 Agr ..... Buda
Newby, H. L., 2 ME ..... Brownwood
Newman, A. R., 2 PetE ..... Orange
Newman, B. A., 3 AgEd ..... Harleton
Newman, C. J., 3 AA ..... Graham
Newman, H. W., Jr., 2 Agr ..... Austin
Newman, L. A., Jr., 1 LA .... San Antonio
Newton, B. G., 1 PetE ..... San Antonio
Newton, D. E., 2 Agr ..... Kirbyville
Newton, G. K., 3 PetE ..... Dallas
Newton, R. K., 1 AA ..... Kingsville
Nice, F. A., 2 PetE ..... Houston
Nicholl, N. L., 4 VM ..... Amarillo
Nichols, D. R., 2 PetE ..... Kerrville
Nichols, F. K., 2 EE ..... Dallas
Nichols, J. L., 1 LA ..... Fort Worth
Nichols, R. A., 3 AgEng ..... Rockwall
Nichols, R. D., 1 ME ..... Dallas
Nicholson, R. G., 1 LA .... Fort Stockton
Nickelson, H. L., 1 PetE ..... Fort Worth
Nickerson, Warren, 2 VM .... San Antonio
Nicks, P. B., 3 LA ..... Beaumont
Nisbet, R. E., 2 ChE ..... Bryan
Nisbett, Joe Gene, 1 AA ..... Amarillo
Nix, P. S., 2 AgEd ..... Emory
Nixon, J. H., 1 ME ..... Lufkin
Nobles, C. E., 4 EE ..... Paris
Noblitt, Eugene, 1 ArchE ..... Dallas
Noel, J. A., 2 EA ..... Sherman
Noel, Leon, 1 AA ..... Sherman
Noel, P. C., 1 LA ..... Memphis
Nolen, J. E., Jr., 2 PetE ..... Houston
Noles, J. R., 4 CE ..... Wellington
Nordhaus, Alexander, Jr., 4 ME ..... San Antonio
Norman, Val, 1 PetE ..... El Paso
North, H. L., 1 Agr ..... Georgetown
North, W. G., Jr., 4 PetE ..... Cuero
Northrop, J. W., 2 Sci ..... Houston
Northrop, P. H., 4 Arch ..... Houston
Northrup, P. C., 1 ChE ..... Houston
Norton, A. L., 3 EE ..... San Antonio
Norton, C. P., 2 ME ..... Hereford
Norton, R. R., 2 VM, Modesto, California
Norton, W. M., Jr., 3 EE ..... Bovina
Norwood, A. J., 1 LA ..... Houston
Norwood, J. S., 4 AA ..... Houston
Noton, J. T., 1 AA ..... Austin
Novelli, R. J., 3 LA ..... Galveston
Novosad, A. C., 1 AgEd ..... Wheelock
Novosad, N. N., 1 AA .... East Bernard
Noyes, G. W., 2 EE ..... Houston
Nuckols, W. H., 4 AA ..... San Antonio
Nugent, G. C., 1 VM .... Glouchester, Mass.
Nutt, G. B., 2 AA ..... Beeville
Nye, A. R., 1 IE ..... Eagle Pass
Nye, I. B., 4 VM ..... Dallas
Oates, E. C., 2 AA ..... College Station
O'Brien, Charles, 2 AA ..... Houston
O'Brien, R. J., 1 Arch ..... Houston
O'Bryan, O. D., 1 PetE ..... Sulphur, La.
O'Connor, J. D., 1 LA ..... Galveston
O'Connor, J. S., 1 ME ..... Houston
Odell, J. M., 1 ME ..... Abilene
Odom, M. W., 3 PetE ..... Dallas
Odom, R. E., 2 PetE ..... Jasper
Odom, W. F., Spec AA ..... Kurten
Oefinger, L. E., 2 ChE ..... Dallas
Oelkers, J. C., 2 EE ..... Carrizo Springs
Oeltjen, W. E. J., 1EE ..... La Grange
Ogdee, George J., 1 TE ..... San Benito
Ogden, B. C., 1 PreVet ..... Brady
Ogle, J. W., 1 Agr ..... Deer Park
O'Hara, M. J., 1 ME ..... Laredo
O'Keefe, F. T., 1 AgEd .... Richland Springs
O'Kelley, W. C., 1 ME ..... Houston
Olbrich, A. P., 4 ME ..... Burlington
Olbrich, R. W., 2 ME ..... Burlington
Oler, W. L., 1 LA ..... Harlingen
Oliver, C. R., 4 AA ..... Fort Worth
Oliver, M. D., Jr., 3 PetE .... San Antonio
Oliver, R. L., 1 CM ..... San Saba
Oliver, W. M., 2 EE ..... Dallas
Olsen, H. H., 3 EA ..... Galveston
Olsen, J. P., 1 LA ..... Houston
Olson, G. O., 1 EE ..... Amarillo
Ommert, W. D., 1 PreVet, Oakland, Cal.
O'Neal, W. C., 4 AgEd ..... Emhouse
O'Quinn, J. M., 1 PetE ..... Grandfalls
Oradat, F. R., 1 ME ..... Electra
Orbison, J. R., 4 PetE, Memphis, Tennessee
O'Rear, S. A., 2 AA ..... Wellington
O'Reilly, W. M., 1 PetE ..... Houston
Orgain, H. K., 4 CE ..... Temple
Ormand, Garland, 1 LA ..... Bartlett
Ormsby, F. G., 1 VM ..... Alvin
Orr, D. B., 2 AA ..... Graham

Orth, W. A., 4 PetE ..... Dallas
Ortiz, M. R., 5 Arch, Mexico City, Mexico
Ortiz, P. J., 1 EE, Santurce, Puerto Rico
Orton, H. C., 2 CE ..... Bellevue
Osborn, M. L., 3 Agr ..... Claude
Osborne, C. E., Jr., 3 ME .... Three Rivers
Osborne, G. J., 2 Agr ..... Madisonville
Oslin, B. W., 1 ChE ..... Denton
Oswalt, W. H., 3 CE ..... Dallas
Ota, Minol, 2 VM .... Cheyenne, Wyoming
Ottersen, O. P., 1 ME .... Honolulu, Hawaii
Otto, J. P., 1 EE ..... Fort Worth
Overbeck, E. M., 1 ChE ..... Dallas
Owen, A. H., 2 ME ..... Wichita Falls
Owen, C. S., 1 ChE ..... Abilene
Owen, E. C., 1 ME ..... Tennessee Colony
Owen, L. B., 2 Agr ..... San Saba
Owen, M. B., 2 ME ..... Galveston
Owen, N. R., 4 AgEd ..... Jacksboro
Owen, Roy, 4 Agr ..... Athens
Owen, W. J., 2 PetE ..... Tyler
Owens, J. B., 1 LA ..... Breckenridge
Owens, J. F., 1 CE ..... Big Spring
Owens, J. L., Jr., 4 ChE ..... Pilot Point
Oxford, W. F., 1 ChE ..... Beaumont
Ozier, B. B., 1 Sci ..... Temple
Pace, E. R., 2 ChE ..... McGregor
Packard, L. H., 1 ChE ..... San Antonio
Packer, R. E., 3 AA ..... Dallas
Paclik, C. J., 4 VM ..... Gainesville
Padget, A. D., 2 ME ..... Panhandle
Page, J. W., 3 ME ..... Fort Worth
Paggi, C. E., 4 PetE ..... Beaumont
Palermo, Frank, 1 AA ..... Bryan
Palermo, T. S., 2 AA ..... Bryan
Paley, K. J., 3 VM .... Lake Forest, Ill.
Palmer, C. M., 3 EE ..... Waco
Palmer, G. J., III, 2 CM ..... Houston
Palmer, J. C., 2 ME ..... Ranger
Pamplin, T. N., 2 ME ..... Miami, Florida
Pankey, W. R., Jr., 1 ChE ..... Forney
Pannell, E. W., 1 Agr ..... Waco
Pappas, G. F., 3 EE ..... Dallas
Pappas, T. R., 1 Agr ..... Temple
Parish, Joseph, 3 PetE ..... Van Alstyne
Park, J. W., III, 2 Sci ..... Kaufman
Parker, A. H., 2 Agr ..... Odessa
Parker, B. J., 1 AA ..... Rowlett
Parker, C. E., 2 Agr ..... Lexington
Parker, Don, 3 Agr ..... Waxahachie
Parker, E. C., 3 PetE ..... San Antonio
Parker, G. W., 1 PreVet ..... Corsicana
Parker, H. C., 1 Agr ..... Catarina
Parker, J. H., 1 Agr ..... Wylie
Parker, J. L., 2 AA ..... Milford
Parker, J. M., 1 ME ..... Elkhart, Indiana
Parker, J. W., 4 ChE ..... Fort Worth
Parker, L. B., 2 PetE ..... Huntsville
Parker, P. D., 1 PetE ..... Jacksonville
Parker, R. B., 1 EE ..... Dallas
Parker, R. E., 4 AA ..... Crockett
Parker, R. W., 2 ME ..... San Antonio
Parker, W. B., 1 PetE ..... Houston
Parker, W. C., 2 Agr ..... Centerville
Parkes, J. C., 3 AgEd ..... College Station
Parks, D. T., 3 ChE ..... Dallas
Parks, Edward, 3 EE ..... Liberty Hill
Parks, G. B., 3 PetE ..... Beaumont
Parks, S. J., 3 ME ..... Dallas
Parris, H. B., Jr., 3 LA ..... Dallas
Parrish, R. A., 2 Arch ..... Lufkin
Parrott, F. H., 4 ChE ..... Denison
Partridge, H. J., 3 AgEng ..... Munday
Pasche, A. T., 2 PetE ..... Dallas
Passons, J. P., 1 AA ..... Wheeler
Patman, C. W., 1 LA ..... Texarkana
Patrick, O. L., 4 ME ..... Corsicana
Patrick, R. L., 3 AgEng ..... Temple
Patten, G. O., 1 LA ..... Fort Worth
Patterson, C. A., 3 AA ..... Bryan
Patterson, E. F., 1 Agr ..... Dallas
Patterson, G. W., 4 Agr ..... Lindale
Patterson, J. E., 1 PetE .... San Antonio
Patterson, N. H., 4 PetE ..... Temple
Patterson, O. L., 2 AgEd ..... Benjamin
Patterson, W. B., 4 AA ..... Axtell
Patterson, J. T., 1 PetE ..... Brownsville
Patton, J. D., 3 AA ..... Dallas
Patton, W. H., 2 AA ..... Hereford
Paxton, J. N., 2 PetE ..... Houston
Payne, C. W., 1 Agr ..... Tulia
Payne, H. H., 4 VM ..... El Campo
Payne, V. E., 3 EE ..... Bryan
Payne, W. H., 2 ME ..... Athens
Pearce, M. R., 2 CE ..... Waco
Pearce, R. B., 1 ME ..... Dallas
Pearce, R. D., 2 VM .... Baton Rouge, La.
Pearson, L. M., 1 ChE .... College Station
Pearson, P. E., 2 ChE ..... Wichita Falls
Pearson, W. F., Jr., 1 ME ..... Dallas
Pecena, B. J., 4 AgEng ..... Wheelock
Peck, Jack, 2 PetE ..... Beaumont
Peden, R. L., 4 AgEd ..... Azle
Pedigo, S. E., 1 ME ..... Houston
Peebles, J. S., 1 Sci ..... Wink
Peek, B. L., 1 AA ..... Robstown
Peek, J. V., 1 ChE ..... Livingston
Peeler, H. T., 3 Agr ..... Dallas
Peeler, L. F., 3 CE ..... Dallas
Peery, C. E., 2 ChE ..... Valley View
Peevey, D. R., 1 Sci ..... Burkburnett
Peevey, J. P., 2 PetE ..... Wichita Falls
Pegues, S. S., 1 LA ..... Crystal City
Pelot, H. H., 2 VM ..... College Station
Pelot, W. L., 1 PreVet ..... Dallas
Pena, W. M., 1 Arch ..... Laredo
Pendery, H. V., 3 AA ..... Greenville
Pendleton, Hal., 1 AA ..... Munday
Pendleton, W. F., 1 Arch, Mansfield, La.
Pendleton, W. L., 1 Agr ..... Stratford
Penrod, Boyce, Jr., 2 AA ..... Gonzales
Penwell, J. C., 1 Agr ..... Mabank
Pepper, G. R., 3 Agr ..... Sweetwater
Perfect, T. R., 1 Agr ..... Dallas
Perkins, G. M., 1 AgEng ..... McKinney
Perkins, M. F., 1 LA ..... Farmersville
Perkins, T. A., 4 AgEd .... Mt. Pleasant
Perkins, Wesley, 3 ME ..... McKinney
Permenter, C. M., 1 EE ..... Waco
Permenter, P. J., 1 Agr ..... Joaquin
Perner, P. C., 1 Agr ..... Ozona
Perrin, F. W., 3 CE ..... Cameron
Perritte, H. H., 4 EA .... College Station
Perrone, P. M., 1 LA ..... Steele's Store
Perry, E. H., 1 AA ..... Fort Worth
Perry, J. A., 1 EE ..... El Paso
Persohn, J. W., 1 EE ..... Dallas
Persons, J. V., 3 PetE ..... College Station
Persons, R. W., 2 AA ..... Bryan
Pessin, S. M., 3 VM .... College Station
Peter, L. S., Jr., 4 ME ..... San Antonio
Peters, E. H., Jr., 3 PetE ..... Calvert
Peters, O. F., Jr., 1 AA ..... Galveston
Petersen, C. A., 3 ChE ..... Fort Worth
Petersen, D. W., 3 ME ..... Fort Worth
Petersen, K. L., 2 ArchEng ..... Dallas
Peterson, L. L., 2 IE ..... Louise
Peterson, R. L., 2 Agr ..... Roanoke
Peterson, W. M., 2 CE ..... Dallas
Petitfils, A. Frank, 2 ME ..... Galveston
Petkovsek, J. C., 1 EE ..... Beaumont
Petrash, E. B., 1 EE ..... Moulton
Pettit, B. E., 1 AgEng ..... Gustine
Pettit, E. W., 1 AA ..... Throckmorton
Pettit, E. Y., 2 PetE ..... Presidio
Pettit, M. W., 3 AgEng ..... Bloomburg

Petty, H. L., 3 AA ..... Santo
Petty, Lee, Jr., 2 EE ..... Marquez
Petty, M. A., 1 Agr ..... Gilmer
Phelan, Frank, 2 LA ..... Memphis
Phelps, H. A., 1 AgEd ..... Douglassville
Phenix, B. C., 4 ChE ..... Port Arthur
Phillips, David, 2 PetE, Mexico City, Mex.
Phillips, Duke, 1 Agr ..... Austin
Phillips, H. M., 1 Agr ..... Gilmer
Phillips, M. M., 1 LA ..... Greenville
Phillips, R. B., 1 LA ..... Lometa
Phillips, R. F., 2 AA ..... Dallas
Phillips, R. S., 2 PetE ..... Dallas
Pickard, A. M., 1 PreVet ..... Ladonia
Pickering, G. D., 2 AA ..... Lake Creek
Pickett, A. H., 3 ME .... College Station
Pickett, G. D., 3 AA ..... Thorndale
Pierce, D. C., 1 Agr ..... Conroe
Pierce, E. L., 2 Agr ..... Bangs
Pierce, F. A., Jr., 2 AA ..... Luling
Pierce, J. B., 1 Arch ..... Denton
Pierce, J. E., 1 AA ..... Wiergate
Pierce, P. R., 1 ME ..... Bryan
Pierce, W. B., Jr., 1 AgEng .... Mt. Vernon
Pilant, E. C., 4 Agr ..... Bryan
Pinchback, R. T., 4 CE ..... Beaumont
Pinchback, W. P., 1 IE ..... Beaumont
Pinchin, H. J., 3 ME ..... Hallettsville
Pinson, J. D., 2 Agr ..... Forney
Pipkin, C. H., 3 AA ..... Beaumont
Pipkin, R. G., 4 LA ..... Eastland
Pirtle, B. E., Jr., 1 Agr ..... Waco
Pitts, D. D., 3 ME ..... Grandview
Place, B. E., 1 IE ..... Rule
Plagens, R. L., 3 ChE ..... Weimar
Planadeball, F. S., 2 CE .....
..... Santurce, Puerto Rico
Plummer, A. G., 2 Agr ..... Hereford
Poage, J. D., 3 AgEng ..... Big Lake
Pochyla, H. W., 4 ME ..... West
Poe, S. A., 1 ME ..... Winters
Poland, R. L., 1 ME ..... Huntington
Polanovich, A. T., 4 PetE ..... Fort Worth
Polanovich, W. P., 1 PetE ..... Fort Worth
Polifka, F. J. F., 4 PetE ..... Palacios
Pollan, G. W., 4 AgEng ..... Rice
Pollingue, D. R., Jr., 2 ME, Lafayette, La.
Pomykal, W. A., 1 ME ..... Rosebud
Ponsler, L. G., 2 PetE ..... Cisco
Ponthieux, N. A., 2 LA ..... Beaumont
Pool, F. M., 3 PetE ..... Waco
Pool, G. W., 4 Land ..... Richland Springs
Poole, L. S., 1 Agr ..... Buna
Pope, Jack, 4 Agr ..... Mt. Pleasant
Porter, J. B., 1 CE ..... Waco
Porter, Richard, 2 ChE ..... Cason
Porter, T. R., 1 PetE ..... Fairbanks
Porter, W. N., 3 VM ..... Granbury
Porterfield, C. J., 4 Agr ..... Bryan
Posey, G. W., 1 AA ..... Temple
Posey, Hardin, 1 Agr ..... San Antonio
Post, B. G., 4 Sci ..... Houston
Post, J. J., 2 Agr ..... Runge
Postle, D. F., 3 CE ..... Glencoe, Ill.
Poston, B. L., 2 Agr ..... Valley Mills
Poteet, W. D., 1 EE ..... Fort Worth
Potter, W. W., 4 CE ..... Weatherford
Potthast, H. F., 2 Agr ..... Weimar
Potts, F. M., 4 Agr ..... Waco
Potts, J. W., 3 ChE ..... Dallas
Potts, P. S., 2 ME ..... Gainesville
Pou, W. L., Jr., 2 Agr ..... Cleburne
Poulter, C. J., 2 LA ..... San Angelo
Powell, A. W., 1 Agr ..... Anna
Powell, C. G., 3 Agr ..... Dublin
Powell, R. G., 1 ChE ..... Lufkin
Power, T. L., 2 AA ..... Post
Prager, A. J., 2 PetE ..... Big Spring
Prather, J. L., 2 ME ..... Bryan
Pratt, C. J., Jr., 2 ME ..... Dallas
Pratt, W. I., 4 LA ..... Midland
Prejean, W. J., 1 CE ..... Port Neches
Preskitt, M. W., 1 IE ..... Fairbanks
Pressler, J. M., 1 CE ..... Marshall
Prestridge, B. G., 1 ArchE .... Raymondville
Prewitt, R. R., 4 AA ..... Columbia, La.
Price, A. A., 3 Agr ..... Phillips
Price, C. W., 2 LA ..... Newcastle
Price, F. C., 2 Agr ..... Cleburne
Price, J. A., 2 IE ..... Fort Worth
Price, M. A., 4 Agr ..... Oakwood
Price, M. W., 2 ME ..... Houston
Price, T. S., 1 AA ..... Seagoville
Price, W. W., 3 Agr ..... Eliasville
Pridgeon, L. H., 1 Agr ..... Bryan
Pridmore, J. A., 2 ME ..... Edinburg
Prinz, H. E., 4 Arch ..... Dallas
Pritchett, O. D., 1 IE ..... Bedias
Proctor, W. S., 4 EE ..... College Station
Pronger, A. E., 1 Agr ..... Stratford
Propes, W. D., 2 Sci ..... Henderson
Propps, O. D., Jr., 3 Agr ..... Benjamin
Propst, J. R., 2 PetE ..... Amarillo
Prosser, L. L., Jr., 2 PetE ..... Roscoe
Prove, E. H., 2 AA ..... Lockhart
Provost, F. E., 2 EE ..... Port Arthur
Prowell, E. R., 1 AA ..... Richmond
Pruett, Kenneth, 1 Agr ..... Blue Ridge
Prugel, A. E., 4 Agr ..... Eden
Prugel, J. A., 4 Agr ..... Eden
Pryor, D. I., 2 VM ..... St. Cloud, Minn.
Puckett, J. W., 3 CE ..... Pharr
Pugatch, Nathan, 2 VM .... San Rafael, Cal.
Pugh, L. A., Jr., 1 IE ..... Kerens
Pugh, M. C., 1 Agr ..... Fort Worth
Pullin, George W., Jr., 4 PetE ..... Taft
Pump, W. E., 3 PetE ..... Bay City
Pumphrey, K. F., Jr., 2 ME .... Fort Worth
Purcell, C. L., 1 PetE ..... Beaumont
Purcell, G. B., Jr., 2 Agr .... Archer City
Purdy, Jackson A., Spec DH ..... Bryan
Pustejovsky, J. J., 1 AgEd .... Schulenburg
Pustejovsky, M. J. B., 1 AA ..... Cuero
Pustejovsky, V. W., 3 AgEd .... Schulenburg
Pye, E. J., 1 Agr ..... Kings Point, N. Y.
Pyeatt, W. W., 4 PetE ..... Olney
Quarles, N. K., 4 AgEd ..... Slocum
Quarles, P. A., 1 ME ..... Amarillo
Quick, W. M., 1 AA ..... San Angelo
Quilichini, L. V., 4 CE .....
..... Sabana Grande, Puerto Rico
Quinn, R. F., 1 PetE .... El Dorado, Ark.
Raabe, M. L., 4 CE ..... Waco
Rabb, J. A., 1 AgEng ..... Point
Rabinowitz, Darwyn, 4 PetE ..... Dallas
Race, G. W., 1 CE ..... Palestine
Rachuig, C. A., 1 ArchE ..... Houston
Radack, E. A., 3 PetE ..... San Antonio
Radeleff, R. D., 3 VM ..... Kerrville
Radford, J. L., 2 EE ..... Denison
Rafalsky, L. A., 2 EE ..... San Antonio
Ragan, W. C., 2 PetE ..... Houston
Ragland, J. D., 2 AA ..... Alice
Ragsdale, J. E., 4 Agr ..... McAllen
Rahn, L. F., 2 PetE ..... Dayton
Rainey, C. H., 2 AA ..... Bloomburg
Ramage, J. C., 1 Agr ..... Iredell
Ramey, J. R., 1 Agr ..... Sulphur Springs
Ramirez, Valentin, 4 ME ..... Hebbronville
Ramsden, H. D., 2 ME ..... Galveston
Ramsel, C. A., 2 PetE ..... San Marcos
Ramsel, Curtis D., 1 Agr ..... Plains
Ramsel, G. W., 1 Agr ..... Winters
Ramsey, B. F., 1 ChE ..... Tyler
Ramsey, J. O., 2 PetE ..... Henderson
Ramsey, R. R., 2 WG ..... Uvalde

Rand, F. G., 1 ChE ..... Dallas
Ransdell, C. H., Spec CE .... College Station
Rapp, J. B., 1 Agr ..... Estelline
Rascoe, W. M., 1 ME ..... Corpus Christi
Ratcliff, J. D., 1 LA ..... Queen City
Ratcliff, W. H., 4 Agr ..... Marshall
Ratliff, L. A., 1 PetE ..... Houston
Rau, C. E., 2 PetE ..... Columbus
Ravey, Lee, 2 AA ..... Amarillo
Rawls, J. E., 2 ME ..... New Orleans, La.
Rawls, J. W., 1 Agr ..... Marfa
Rawls, R. R., 1 ME ..... Houston
Ray, C. G., 1 ChE ..... San Antonio
Ray, E. S., Jr., 1 AA ..... Vernon
Ray, W. D., 1 ME ..... Houston
Rayburn, Pat, 2 Sci ..... Dallas
Rea, Fred, 1 Sci ..... Weatherford
Rea, G. M., 1 PetE ..... Bryan
Rea, H. A., 2 ME ..... Dallas
Rea, Ted, 1 PreVet ..... Weatherford
Read, Carl, Jr., 1 AA ..... Bridgeport
Read, R. R., 1 AA ..... Houston
Ready, G. T., 3 ChE ..... Texas City
Reagan, E. H., 4 EA ..... Marquez
Reagan, J. W., 1 ChE ..... Goliad
Reagan, R. L., 4 Agr ..... Beeville
Reagor, Arthur, Jr., 3 ME ..... Hillsboro
Reat, J. H., 4 AgEd ..... Holland
Reavis, C. L., 1 AA ..... Shamrock
Reavis, H. N., 3 PetE ..... Livingston
Reber, W. H., 1 ME ..... Baytown
Record, W. E., 1 ChE ..... Dallas
Rector, J. D., 1 EE ..... Sanger
Redman, E. J., 1 IE ..... Wellborn
Redmond, H. E., 4 VM ..... Luling
Redwine, C. H., 1 EE ..... Fort Worth
Reed, F. J. E., 3 PetE ..... Beaumont
Reed, J. D., 3 Agr ..... Decatur
Reed, L. D., 2 ME ..... Port Arthur
Reed, W. R., 1 PetE ..... Combes
Reeder, W. H., 3 AA ..... Hughes Springs
Reele, Harry B., 4 VM ..... College Station
Reese, E. L., 3 AgEd ..... Graham
Reese, N. E., 1 LA ..... Baytown
Reeves, C. D., 1 AA ..... Houston
Reeves, J. R., 2 CE ..... San Antonio
Reeves, L. W., 1 AgEd ..... Edgewood
Regenbogen, Milton, 2 VM ..... New York, N. Y.
Rehkemper, J. A., 3 VM ..... Dallas
Rehkemper, W. L., 4 VM ..... Dallas
Rehmet, J. R., 4 PetE ..... Alice
Reich, Aaron S., 1 AA .... San Antonio
Reich, H. D., 1 ArchE ..... Austin
Reid, C. W., 1 Agr ..... Bryan
Reid, J. M., 1 Sci ..... Corsicana
Reid, L. D., 2 Agr ..... Princeton
Reinhard, W. P., 2 PetE .... San Antonio
Renaud, A. F., 1 ME ..... Houston
Rennels, F. L., 1 Agr ..... Vernon
Renshaw, T. L., 2 AA ..... Cumby
Resch, E. G., 1 PetE ..... Houston
Restivo, F. A., 1 AA ..... Bryan
Rethke, M. K., 2 Agr ..... Port Arthur
Reuter, Ernest, Jr., 1 ME .... Livingston
Reuwer, L. E., 1 AgEd ..... Riesel
Reyes, A. V., 4 PetE ..... Berclair
Reyes, Antonio V., 2 AgEd ..... Berclair
Reynolds, A. W., 1 CE ..... Canton, S. D.
Reynolds, E. E., 1 ArchE ..... Tyler
Reynolds, Glenn H., 2 AgEng ..... Albany
Reynolds, J. G., 3 AA ..... Dallas
Reynolds, LeDon, 2 PetE ..... Mabank
Reynolds, W. E., Jr., 2 AA ..... Dallas
Rhea, B. B., Jr., 1 AA ..... Austin
Rhea, R. M., 4 ME ..... Forney
Rhea, Sterling, 1 EE ..... Beeville
Rheman, G. A., 1 Agr ..... Brookshire
Rhodes, J. W., 4 AgEng ..... Rockwall
Rhoads, L. W., 2 AgEd ..... Rockwall
Rhoten, G. P., 3 EE ..... Fort Worth
Rice, George, Jr., 1 Agr ..... Jayton
Rice, H. G., 2 PetE ..... College Station
Rice, I. B., 4 Agr ..... Lindale
Rice, J. C., 4 AgEd ..... Munday
Rice, J. L., 2 Agr ..... McLean
Rice, J. M., 3 Agr ..... Collinsville
Rice, L. E., 1 Agr ..... San Antonio
Rich, A. D., 1 Agr ..... Corpus Christi
Richards, H. J., 2 Agr ..... Jacksboro
Richards, Jack, 2 PetE ..... Amarillo
Richards, T. S., 3 PetE ..... Houston
Richards, W. C., 3 Agr ..... Grapeland
Richardson, B. C., 2 PetE ..... Kirbyville
Richardson, C. R., 2 CE ..... Trenton
Richardson, Grady B., 1 Agr .... Blue Ridge
Richardson, J. D., 4 AgEd ..... Appleby
Richardson, J. E., 3 PetE ..... Bryan
Richardson, Theron, 4 Agr ..... Atlanta
Richardson, T. S., 1 Agr .... Hebbronville
Richey, A. W., 1 CE ..... Hamilton
Richey, T. B., 2 AA ..... San Antonio
Richmond, Fred, Jr., 1 AgEng, Pleasanton
Richmond, J. R., 2 CE ..... Blanket
Richmond, M. K., 3 EE ..... Borger
Richter, C. X., 1 Agr ..... San Antonio
Richter, H. E., 1 Sci ..... Laredo
Ridder, L. F., 1 PetE ..... San Antonio
Riddle, E. W., 1 Sci ..... Abilene
Riddle, R. B., 4 LA ..... Decatur
Rider, A. M., 1 PetE ..... Mexico, D. F.
Ridgeway, C. L., 2 ME ..... Donna
Riddlehuber, J. M., 3 Agr ..... Tyler
Riggins, H. M., 1 ChE ..... Houston
Riggs, L. P., 2 Sci ..... Amarillo
Riggs, R. R., 1 AA ..... McAllen
Riley, J. J., 2 EE ..... San Antonio
Riley, W. E., Jr., 3 ChE ..... Beaumont
Riley, W. Everette, 1 AA ..... Bryan
Rinehart, J. O., 2 VM .... Springfield, Ill.
Ringgold, W. M., 1 ME .... Alexandria, La.
Riordan, F. J., 1 CM ..... Houston
Ripple, C. M., 1 PetE ..... Needville
Risinger, B. A., 1 LA ..... Bryan
Risinger, B. W., 2 ME ..... Eddy
Risinger, R. B., 1 AA ..... Eddy
Ritchey, L. C., 1 ME ..... Marathon
Rinvenbark, J. C., 1 ME ..... Dallas
Rivers, E. D., 4 AgEd ..... Omaha
Rivoire, O. G., 4 EE ..... Marysville
Roach, E. C., 1 AA ..... Rising Star
Roach, Jack, Jr., 2 AA ..... Houston
Roach, Walter, Jr., 1 ChE ..... Waco
Robbins, J. T., 3 Agr ..... Coolidge
Robbins, R. C., 2 PetE ..... San Antonio
Robert, W. C., 2 LA ..... Freer
Roberts, A. W., 2 AA ..... Houston
Roberts, B. H., 2 PetE ..... Sweetwater
Roberts, C. B., 2 VM ..... Tulsa, Okla.
Roberts, C. V., 3 Sci ..... Overton
Roberts, J. B., 1 ME ..... Port Arthur
Roberts, J. R., 4 ME ..... San Antonio
Roberts, M. P., 2 VM .... Arcata, California
Roberts, R. G., 1 LA ..... McKinney
Roberts, T. L., 1 ChE ..... Wills Point
Roberts, W. M., 3 CE ..... Sweetwater
Roberts, W. R., Jr., 1 AgEd, Rising Star
Robertson, B. W., 2 ME ..... Amarillo
Robertson, H. J., 1 ME .... Fort Peck, Mon.
Robertson, J. W., 1 ME ..... Colorado
Robeson, T. C., 4 Agr ..... Centerville
Robinson, A. J., 2 AA ..... San Antonio
Robinson, D. A., 1 Sci ..... Fort Brown
Robinson, G. C., 2 EE ..... Fort Worth
Robinson, H. P., 1 Agr ..... Jayton
Robinson, J. F., 1 Agr ..... Hebron

Robinson, J. H., 2 Agr ..... McAllen
Robinson, J. L., 1 AA ..... Jayton
Robinson, K. F., 4 Arch ..... Mexia
Robinson, M. H., 2 AA ..... Houston
Robinson, R. A., 1 ME ..... Houston
Robinson, R. R., 3 EA ..... Dallas
Robinson, W. T., 1 Sci ..... Big Spring
Robishaw, A. P., 3 PetE ..... Houston
Robison, A. L., 1 PetE ..... Prosper
Robnett, M. F., 1 LA ..... Klondike
Robnett, W. E., 1 AA ..... Klondike
Rockenbaugh, R. H., 1 Agr .... Wills Point
Rockwood, W. R., 3 ChE ..... Wharton
Rodden, D. B., 1 Agr ..... Valera
Roddy, D. F., 1 EE ..... Denison
Roddy, L. O., 1 AgEd ..... Lancaster
Roddy, R. C., 3 ME ..... Egypt
Rodgers, Billy, 1 ME ..... San Antonio
Rodgers, R. B., 4 CE ..... San Antonio
Rodgers, R. J., 3 VM ..... Center
Rodriguez, F. A., 2 CE .... Jalapa, Mexico
Rordiguez, Miguel Angel, 3 Agr .....
..... Bayamon, Puerto Rico
Rodway, F. S., 3 AgEd ..... Garden City
Roeder, C. C., Jr., 1 AA ..... Boerne
Roegelein, William, Jr., 1 Agr, San Antonio
Roemer, C. R., 1 ME ..... Houston
Roemer, P. C., 1 Sci ..... Houston
Roesner, E. H., 3 Agr ..... Katy
Rogers, A. W., 4 CE ..... Corsicana
Rogers, B. F., 2 ME .... Haynesville, La.
Rogers, C. A., 1 Agr ..... Corsicana
Rogers, C. J., 1 LA ..... Mart
Rogers, E. R., 4 AA ..... Hale Center
Rogers, J. D., 3 ME ..... Elm Mott
Rogers, J. F., 3 ME ..... Arlington
Rogers, L. W., 1 AgEd ..... Bishop
Rogers, O. A., 4 AA ..... Mart
Rogers, S. L., 1 AA ..... Gordon
Rohde, C. A., 3 Agr ..... Brady
Rohrer, W. C., 1 AA ..... Galveston
Rohrman, R. W., 1 ME ..... Port Arthur
Roland, R. C., 4 Agr ..... La Feria
Roley, S. J., 1 EE ..... San Antonio
Rollins, A. P., Jr., 4 CE ..... Dallas
Rollins, H. M., 1 ME .... Gulfport, Miss.
Rollow, J. W., 1 CE ..... Fort Worth
Rollow, T. P., 3 CE ..... Fort Worth
Romer, G. J., 1 PetE ..... San Juan
Roming, J. A., 1 Agr ..... Eddy
Rominger, J. C., 2 LA ..... Breckenridge
Rominger, R. L., 1 LA ..... Breckenridge
Romm, Sol, 1 PreVet .... New York, N. Y.
Romo, R. R., 2 VM ..... Pico, California
Roosman, R. Q., 4 ME ..... Dallas
Roper, O. M., 1 AgEng ..... Benjamin
Rose, D. H., 4 CE ..... Amarillo
Rose, J. B., 1 EE ..... Port Arthur
Rose, P. H., 1 Agr ..... Del Rio
Rose, P. P., 4 Arch ..... Fort Worth
Rosenberg, L. E., 2 Agr ..... La Grange
Rosenberg, Raymond, 1 ChE ..... Houston
Rosenfeld, Jerome, 1 VM, New York, N. Y.
Rosenthal, E. M., 1 AA ..... Fort Worth
Rosprim, L. J., 1 AA ..... Bryan
Ross, Clark, Jr., 1 EE ..... Marshall
Ross, F. R., 2 Arch ..... Houston
Ross, J. E., 1 LA ..... Dunn
Ross, L. S., 1 Agr ..... Waco
Ross, R. C., 1 AA ..... Amarillo
Ross, W. R., 3 Agr ..... Franklin
Roth, S. A., 4 VM ..... College Station
Rothe, J. H., 2 AA ..... Hondo
Rothe, R. L., 2 CE ..... Corrigan
Rothrock, J. E., 4 CE ..... Kerrville
Rougagnac, J. F., 1 AA ..... Houston
Rountree, W. M., 2 Agr ..... Garden City
Rouse, C. B., 1 AgEng .... Carrizo Springs
Routh, J. M., 1 AgEd ..... Abilene
Routt, J. R., 4 AA ..... College Station
Routt, W. A., 2 AA ..... Chapel Hill
Rowe, Benson, 2 Agr .... Hughes Springs
Rowland, J. M., 1 ME ..... Fort Worth
Rowland, R. A., 4 ME ..... Weslaco
Ruble, H. M., 1 Agr ..... Bertram
Ruby, M. S., 1 PetE ..... Waco
Rucker, H. L., 3 AA ..... Santo
Rucker, R. G., 1 AA ..... Fort Worth
Ruckman, J. B., 3 AA ..... Karnes City
Rudd, B. J., 1 LA ..... Houston
Rudeloff, W. F., 1 Sci ..... Beeville
Rudy, J. H., 3 Sci ..... Irving
Ruhl, C. A. L., 1 EE .... College Station
Ruiz, F. G., 2 Arch ..... Tampico, Mex.
Ruiz, Herbert, 1 Agr ..... San Angelo
Rumbaugh, Craig, Jr., 2 PetE .... Longview
Rumpf, D. R., 1 ME ..... San Antonio
Rushing, E. F., 4 LA ..... Stephenville
Rusk, F. E., 2 Land ..... Wichita Falls
Russ, A. E., 1 Sci ..... Robstown
Russ, T. A., 2 Arch ..... Houston
Russell, D. L., 2 AA ..... Temple
Russell, E. C., 3 ME .... Corpus Christi
Russell, James, 2 ME ..... San Angelo
Russell, J. M., 4 AA ..... Hereford
Russell, J. Wright, 1 PetE ..... Bonham
Russell, R. R., 1 ME ..... Mineral Wells
Russell, W. A., 4 PetE ..... Kilgore
Rust, A. F., 2 AA ..... Kerrville
Rust, J. C., 1 ME ..... Dallas
Rutan, J. L., 3 LA .... Shreveport, La.
Rutherford, J. A., 4 AA ..... Greenville
Rutherford, W. M., 2 AgEng .... Greenville
Ryan, K. W., 3 ME ..... Eagle Pass
Saba, T. E., 2 AA ..... Port Arthur
Sacco, C. M., 1 Sci ..... Houston
Sadler, W. O., 2 VM ..... College Station
Sadler, W. W., 4 VM ..... College Station
Saegert, J. J., 3 LA ..... Seguin
Saenz, Fortino, 1 IE ..... Banquete
Saeta, R. A., 1 CE ..... Pharr
Saibara, Edward, 1 Agr ..... Webster
Saibara, W. G., 1 AA ..... Webster
Sailers, Bill, 2 EE ..... Dallas
Sain, D. K., 1 EE ..... Atlanta
Sakach, S. P., 4 Land ..... Bryan
Sall, I. E., 2 VM ..... Bryan
Sall, M. L., 3 VM ..... Bryan
Salm, L. C., Jr., 1 AA ..... Granger
Salter, R. D., 2 Agr ..... Emhouse
Salzman, J. H., 4 AgEng ..... Von Ormy
Sammons, R. J., 2 EE ..... College Station
Sample, E. L., 4 LA ..... Bryan
Sample, L. E., 2 AgEng ..... Sample
Samson, H. S., 1 PetE ..... Fort Worth
Sandefur, J. G., 1 AA ..... Marshall
Sandell, M. S., Jr., 1 Agr ..... Jayton
Sanders, B. L., 3 AA ..... Corsicana
Sanders, Dupree, 4 AgEd ..... Sweetwater
Sanders, G. H., 2 ME ..... Marshall
Sanders, I. C., 3 EE ..... Anson
Sanders, J. H., 4 LA ..... Waskom
Sanders, J. J., 3 PetE ..... Corpus Christi
Sanders, J. R., 2 LA ..... Waskom
Sanders, O. M., 2 VM ..... Littlefield
Sanders, S. O., 1 ME ..... Waco
Sanders, W. A., Jr., 3 PetE ..... Cleburne
Sandidge, W., 3 PetE .... Shreveport, La.
Sandling, F. C., 3 CE ..... San Angelo
Sanford, C. G., 2 LA ..... Timpson
San Miguel, R. R., 5 Arch .... San Antonio
Santonio, E. L., 2 CE .....
..... Santurce, Puerto Rico
Sappington, W. T., 1 PetE ..... Nocona
Sargeant, C. H., 2 AgEd ..... Tolar
Sartain, R. R., 4 CE ..... Bryan

Saulsbury, J. W., 1 EE .... El Dorado, Ark.
Saunders, D. H., 1 PreVet .... San Antonio
Saunders, J. D., 1 LA ..... Goose Creek
Saunders, J. M., 1 Agr ..... Frankston
Saunders, J. R., 2 VM ..... Wetmore
Savage, C. E., 1 LA ..... Alice
Saxon, J. S., 1 EE ..... Bryan
Sayles, D. R., 2 Arch .... Clinton, Mo.
Sayner, Frank, 2 Agr ..... Tennyson
Scarborough, A. Y., 1 LA ..... Cleveland
Schaefer, C. A., 1 IE ..... La Grange
Schaefer, N. J., 3 PetE .... Bethany, La.
Schaeffer, D. H., 1 AA ..... Happy
Schaer, W. K., 3 Agr ..... Sealy
Scharlach, E. A., 1 ME ..... Waco
Schawe, E. J., 1 AA ..... Knippa
Scherz, O. E., 1 Land ..... San Angelo
Scheumack, J. F., 1 CE ..... Victoria
Schero, C. J., 1 ME ..... San Antonio
Schiller, R. E., Jr., 3 CE ..... Columbus
Schlafli, Alfred, 4 CE ..... Seguin
Schleider, H. E., 1 AgEng ..... Brenham
Schley, W. C. E., 1 Sci ..... La Feria
Schmaltz, W. H., 2 Agr ..... West
Schmalz, J. P., 1 PetE ..... Dallas
Schmid, E. C., 2 LA ..... Brenham
Schmidt, G. C., 1 ChE ..... Houston
Schmidt, H. A., 3 VM ..... Seguin
Schmidt, H. J., 2 VM ..... Bryan
Schmidt, K. E., 1 Land ..... San Antonio
Schmidt, W. A., 3 Agr ..... Gregory
Schnabel, A. O., 3 LA ..... San Antonio
Schneider, C. C., 3 CE ..... Fort Worth
Schneider, H. J., 1 ME ..... Houston
Schneider, J. H., 1 PetE ..... Houston
Schneider, R. L., 1 AA ..... Houston
Schoenemann, O. M., 1 CE ..... Spring
Schofield, C. W., 1 ME ..... Deweyville
Scholl, L. A., 1 PetE ..... Houston
Scholle, C. H., 4 VM ..... Bryan
Schott, E. E., 2 AA ..... La Grange
Schrank, M. A., 4 CE ..... Hamilton
Schrank, W. C., 3 AA ..... Hamilton
Schraub, L. P., 4 CE ..... Seguin
Schreiber, C. A., 1 LA ..... Mart
Schreiber, P. R., 1 Sci, Jefferson City, Mo.
Schroeder, B. E., 4 LA ..... Lockhart
Schroeder, H. A., 2 AgEd ..... Buckholts
Schuette, R. C., 1 PetE ..... Alice
Schulberg, H. L., 2 VM ..... Bryan
Schulte, Otto J., 3 Agr ..... Brenham
Schulz, U. F., 1 ME ..... Marion
Schulze, W. C., 1 AA ..... Mason
Schutte, H. J., Jr., 4 EE ..... Houston
Schutz, A. D., 3 PetE ..... San Antonio
Schutz, C. D., 3 PetE ..... San Antonio
Schwark, H. H., 1 PetE ..... Dallas
Schwartz, C. L., 1 PreVet ..... Bryan
Schwartz, C. W., 1 AA ..... Bryan
Schwartze, G. M., 1 Sci, Washington, D. C.
Schwertner, J. E., 1 AgEng .... Schwertner
Schwiening, Alfred, 1 PetE ..... Sonora
Schwinn, D. S., 1 Agr ..... Houston
Scofield, J. A., Jr., 4 Sci ..... Bryan
Scoggins, J. D., 2 AA ..... Collinsville
Scott, A. G., 2 AA ..... Huffman
Scott, C. W., 2 ME ..... Whitesboro
Scott, F. E., 1 AgEd ..... San Saba
Scott, H. L., 3 PetE ..... Houston
Scott, J. A. K., 2 Agr ..... Childress
Scott, J. R., 2 LA ..... Houston
Scott, J. S., 1 AgEng ..... Frost
Scott, L. A., 2 AA ..... Hull
Scott, R. A., 2 Agr ..... Olney
Scruggs, G. D., 1 Sci ..... Burkburnett
Seale, F. E., 3 AA ..... Chapel Hill
Seale, Tom, 3 CE ..... Denton
Sealy, M. T., 3 LA ..... Houston
Seamans, R. L., 3 Agr ..... Chester
Seamans, W. T., 1 Agr ..... Chester
Searcy, J. M., 2 AgEng ..... Beckville
Seargeant, A. J., Jr., 1 ME .... Brackettville
Sears, L. A., 1 ChE ..... McKinney
Seay, E. W., 3 Agr ..... Waxahachie
Seay, L. E., 3 VM ..... Mt. Vernon
Seay, M. D., 2 AgEd ..... Sandy Point
Seay, T. H., 2 Agr ..... Harrold
Sebesta, E. E., 5 VM ..... Bellville
Sebesta, E. F., 4 AgEd ..... Snook
Sedberry, J. M., 1 ME ..... Houston
Seele, H. H., 2 ME ..... San Antonio
Seeley, J. F., 1 ChE ..... Houston
Seibert, E. R., 3 PetE ..... Gladewater
Seidel, C. E., 1 PetE ..... Brenham
Selman, W. E., 4 Agr ..... Eden
Semo, S. F., 1 LA ..... Houston
Serna, O. A., Jr., 1 CE ..... Mexico
Sewald, Hughes, 2 VM ..... Amarillo
Seward, C. L., 3 GE ..... Brenham
Shaddix, R. D., 1 PetE ..... Shamrock
Shahan, D. R., 3 AgEd ..... Lipscomb
Shahan, H. E., 1 Agr ..... Lipscomb
Shalkop, W. T., 2 VM .... Grand Prairie
Shannon, J. W., 1 VM ..... Bryan
Shannon, L. A., 1 LA ..... Houston
Shannon, R. H., 2 ME ..... Fort Worth
Shanzer, Harold, 3 VM .... Philadelphia, Pa.
Sharp, J. M., 2 Sci ..... Dallas
Sharp, R. H., 1 ME ..... Port Arthur
Sharp, T. F., Jr., 3 CE ..... Dallas
Shaw, J. A., 2 AA ..... Dallas
Shaw, Malcolm, Jr., 1 ME ..... Carthage
Shea, H. W., 2 ChE ..... College Station
Shehee, H. T., 4 EE ..... Terrell
Shelby, F. G., 1 Agr ..... Waco
Shell, D. F., 1 CE ..... Gregory
Shelton, David, 1 Agr .... College Station
Shelton, Jack, Jr., 1 EE .... College Station
Shelton, J. A., 1 CE ..... Brownfield
Shelton, J. H., 2 EE ..... Hillsboro
Shelton, W. E., 1 IE ..... Queen City
Shelton, W. K., 2 AA ..... Hubbard
Shepard, N. D., 4 CE ..... Texon
Shepard, W. B., 4 AgEd ..... Loving
Shepherd, A. S., 4 PetE ..... Houston
Shepherd, M. Frank, 3 EE ..... Bryan
Shepherd, N. H., 1 EE ..... Bryan
Shepherd, P. B., 3 EE ..... Bryan
Sheppard, A. V., 4 Agr ..... Vineyard
Sherman, C. T., 2 ME ..... Houston
Sherman, R. E., 3 LA ..... Jacksonville
Sherod, L. C., 1 EE ..... Denison
Sherrill, O. W., Jr., 1 Agr .... Georgetown
Sherrill, R. L., Jr., 4 ME ..... Temple
Sherrod, A. J., 4 CE ..... Stephenville
Shiddell, J. F., 1 LA ..... Wichita Falls
Shields, E. A., 2 EE ..... Amarillo
Shiels, E. F., 2 EE ..... Dallas
Shiels, R. T., Jr., 3 EE ..... Dallas
Shifflette, D. B., 1 LA ..... Gladewater
Shiner, Joel L., 1 ME ..... Laredo
Shipley, J. L., 1 AgEd ..... Kaufman
Shipman, S. L., 2 PetE ..... Fort Worth
Shirley, W. L., 2 ME ..... Houston
Shockley, T. J., 1 EE ..... Fort Worth
Short, G. O., 1 PetE ..... Dallas
Short, K. W., 1 AgEng ..... Plainview
Short, O. M., 2 AA ..... Marshall
Short, T. J., 1 Agr ..... Centerville
Shortridge, H. B., 1 AA ..... Dallas
Shoultz, J. C., Jr., 3 LA ..... Grapeland
Shropshire, J. E., 1 PetE .... Crystal City
Shuford, J. W., 1 ME ..... San Antonio
Shuler, W. H., 4 AA ..... Snyder
Shultz, C. Y., 2 ME ..... Alvarado
Shurley, Jack, 1 ChE ..... Sonora

Shurtleff, H. C., 2 AA ..... Mt. Vernon
Sibeck, L. G., 3 Arch, Little Rock, Ark.
Sibley, B. E., 1 LA ..... San Antonio
Sidor, A. J., 1 PetE ..... Dallas
Seibert, G. L., 1 Agr ..... Eastland
Siegel, Gordon, 1 Sci ..... Dallas
Sieker, R. E., 1 PetE ..... Kerrville
Sikes, R. E., 2 EE ..... Bryan
Sikes, R. H., 1 AA ..... Breckenridge
Silbert, I. M., 2 Agr ..... Waco
Silverman, D. L., 3 CE ..... Longview
Simels, N. G., 2 VM ..... Bryan
Simmang, Q. W., 1 AA ..... Giddings
Simmon, B., Jr., 4 PetE ..... Houston
Simmon, J. F., 1 LA ..... Alba
Simmons, E. A., 1 LA ..... Somerville
Simmons, J. H., 4 EE ..... Arlington
Simmons, R. A., 1 Agr ..... Sonora
Simmons, W. C., 1 PetE ..... Trinidad
Simon, J. K., 1 IE ..... Iraan
Simonpietri, C. G., 3 CE ..... Ponce, Puerto Rico
Simpson, C. E., 4 ChE ..... Tyler
Simpson, D. P., 3 Arch ..... Christoval
Simpson, J. D., 1 PetE ..... Abilene
Simpson, S. T., 1 EE ..... McKinney
Simpson, W. W., 1 ME ..... Tyler
Sims, E. C., Jr., 3 AgEd .... Mt. Pleasant
Sims, J. C., 1 Agr ..... Whitney
Sims, S. P., 2 AgEng ..... Woodville
Sims, W. P., 2 PetE ..... Waxahachie
Sinclair, W. N., 1 ME ..... Houston
Sinex, J. M., 1 PetE ..... Fort Worth
Singletary, Giles, 2 Land ..... Center
Singletary, G. F., 3 PetE ..... Bryan
Singleton, James M., 1 LA ..... Lufkin
Singleton, R. E., 3 AgEng ..... Harrold
Singleton, V. D., 1 AgEd ..... Gatesville
Siptak, R. C., 1 Sci ..... Caldwell
Sissom, A. W., 1 EE ..... Alvarado
Skaggs, R. E., 1 ME ..... Plano
Skelly, C. A., Jr., 2 ME .... Rosita, Mexico
Skelly, H. K., 1 AgEd ..... Caldwell
Skidmore, R. G., 1 CE ..... Grapeland
Skinner, J. W., 2 Sci ..... Dallas
Skipper, J. D., 2 VM ..... Stephenville
Skrabanek, R. L., 1 AgEd ..... Snook
Skripka, P. P., 2 AA ..... Rosenberg
Slack, T. E., 1 ME ..... Amarillo
Slagle, L. E., 4 ME ..... Hearne
Slaton, W. T., 3 PetE ..... Dallas
Slavin, Pat, 1 Agr ..... Clarendon
Slayton, T. E., 1 EE ..... Paris
Sledge, W. L., 2 ME ..... Freeport
Sleeper, John, III, 1 Agr ..... Elm Mott
Sleeper, W. C., 1 ME, Fort Sam Houston
Slicker, J. A., 2 PetE-ME ..... Cisco
Slovick, W. A., 2 LA ..... Bryan
Small, W. W., 4 ChE ..... El Paso
Smart, J. E., 4 ME ..... Denison
Smith, A. L., 1 Agr ..... Bryan
Smith, A. W., 1 PreVet ..... Mertzon
Smith, A. W., 4 ME .... Sulphur Springs
Smith, Ben, Jr., 1 PetE ..... Pineland
Smith, Billy G., 3 Agr ..... Jacksonville
Smith, Boyd L., 3 ME ..... Houston
Smith, C. Byron, 1 Agr ..... Houston
Smith, C. Edward, 1 Agr ..... Rockwall
Smith, C. Emerson, 1 ME ..... Los Ebanos
Smith, C. G., 1 Agr ..... Abilene
Smith, C. K., 1 Arch ..... Bremond
Smith, Darrell, 4 PetE ..... Lott
Smith, E. E., 1 LA ..... Houston
Smith, Elmer, F., 1 VM ..... Fort Worth
Smith, E. J., 1 Agr ..... Dallas
Smith, E. L., 1 LA .... Frisco City, Ala.
Smith, E. M., 1 ChE ..... Marlin
Smith, E. W., 1 EE ..... Dallas
Smith, Geo., E., 3 ME ..... Galveston
Smith, Geo. W., 3 LA ..... Memphis
Smith, Grant W., 1 AA .... New Braunfels
Smith, Howard, 2 ChE ..... Lancaster
Smith, Howard C., Jr., 3 CE .... El Paso
Smith, H. E., 2 LA ..... San Angelo
Smith, H. Raymond, 1 VM ..... Galveston
Smith, Henry Reynolds, 1 Agr ..... Throckmorton
Smith, H. S., 1 ME ..... Frisco
Smith, J. A., 1 Agr ..... Mabank
Smith, J. Charles, 2 PetE-ME .... Huffman
Smith, J. Clifton, 4 Agr ..... San Saba
Smith, John Dale, 1 AA ..... Gilmer
Smith, Joe Ellis, 4 AA ..... San Benito
Smith, J. H., Jr., 3 AgEng ..... Austin
Smith, James W., 1 ArchE ..... Dallas
Smith, Jude W., 3 LA ..... Houston
Smith, Jack X., 1 CE ..... Grapeland
Smith, Kelvyn, 1 PetE ..... Nocona
Smith, Lawrence G., 3 VM, Goldengate, Ill.
Smith, Larry R., 1 ME ..... Fort Worth
Smith, Lewis R., 1 PetE ..... Houston
Smith, Merrill, 3 EE ..... Lockhart
Smith, M. H., 1 AA ..... Gem
Smith, Marvin J., 4 AA ..... Sonora
Smith, Malcolm R., 1 PetE ..... Bryan
Smith, Melvin R., 2 LA ..... Newcastle
Smith, N. D., 1 Arch ..... Dallas
Smith, O. G., 2 Agr ..... Dime Box
Smith, O. S., Jr., 1 ME ..... Sanatorium
Smith, P. W., 1 EE ..... San Benito
Smith, Robert A., 1 ChE ..... Gilmer
Smith, Ruben A., 1 ME ..... Homer, La.
Smith, Russell A., 1 PetE ..... Monahans
Smith, R. Louis, 2 AA ..... Holland
Smith, R. Long, 3 AA ..... Dallas
Smith, R. N., 2 ME ..... Weslaco
Smith, S. N., 2 ME ..... Galveston
Smith, S. W., 3 Agr ..... Marathon
Smith, T. C., 4 Agr ..... Rule
Smith, T. E., 3 EA ..... Corsicana
Smith, T. H., 1 ME ..... Longview
Smith, T. J., 1 PetE ..... Electra
Smith, V. M., 1 CM ..... Frisco
Smith, V. S., 3 Arch ..... Dallas
Smith, W. B., 1 LA ..... Crockett
Smith, W. G., 1 PetE ..... Amarillo
Smith, W. H., 4 ArchE ..... Waco
Smith, W. P., Jr., 3 EE ..... San Benito
Smith, W. Porter, Spec ME, College tSation
Smith, Warren S., 1 Sci ..... Dallas
Smith, Winston S., 1 ME ..... Tenaha
Smitham, F. A., 1 ChE ..... Dallas
Smither, I. F., 1 AA ..... Corpus Christi
Smither, J. M., 1 ME ..... Dallas
Smitherman, L. B., 1 CE ..... Calvert
Smock, R. L., 1 ChE ..... Borger
Smothers, D. D., 2 VM ..... Houston
Smyers, J. P., 4 AA ..... Arlington
Smyth, N. B., 3 Arch ..... Uvalde
Snodgrass, T. B., 1 PreVet ..... Beaumont
Snow, J. H., 2 EE ..... Angelton
Snow, R. W., 1 EE ..... Foulton, Ky.
Snydelaar, N. A., 3 ME, Mexico City, Mex.
Snyder, N. H., Jr., 2 ME .... San Antonio
Snyder, R. W., 1 ChE ..... Dallas
Snyder, V. D., 1 Agr .... College Station
Sodd, William, 3 LA ..... Fort Worth
Soderman, E. J., 2 EE ..... El Campo
Soderquist, M. K., 1 Agr, Hot Springs, Ark.
Solomon, C. L., 1 CM ..... Temple
Solomon, J. F., 1 EE .... Roy, New Mexico
Somerville, G. R., 1 ChE ..... San Antonio
Sonberg, S. F., 1 PetE ..... Beeville
SoRelle, A. C., Jr., 1 PetE ..... Houston
Sorenson, H. V., 2 CE ..... Dallas
Soriano, Aquiles, Spec MSE .....

..... Caracas, Venezuela, S. A.
Sosa, Daniel, Jr., 1 Agr ..... Santurce, Puerto Rico
Soto, M. A., 2 Arch, Lares, Puerto Rico
South, T. L., 1 PetE ..... Big Spring
Sova, P. P., 2 VM .... Garfield, New Jersey
Sowell, E. N., 3 ME ..... Elgin
Sowell, J. A. W., 3 AgEd ..... Granger
Sowell, J. C., 2 AA ..... San Antonio
Spangler, J. H., 3 AA ..... Lometa
Spann, J. H., 2 Agr ..... Lampasas
Sparkman, C. M., 2 Agr ..... Garden City
Sparkman, R. M., 2 PetE ..... Dallas
Sparks, G. H., 1 AgEd ..... Blanco
Sparks, Richard Edgar, 3 AA ..... Ysleta
Sparks, T. C., 1 VM ..... Amarillo
Sparra, C. R., 3 LA ..... Houston
Spaugh, Paul, 4 AA ..... Mart
Spears, B. R., 1 AA ..... Hillsboro
Speckles, M. L., 4 ChE .... San Antonio
Speed, R. J., 3 ME ..... Shafter
Spencer, C. P., 1 LA ..... Hightower
Spencer, H. E., 1 EE ..... Dallas
Spencer, J. D., 1 IE ..... Redwater
Spencer, R. Q., 4 CE ..... Tyler
Spencer, S. B., 1 ME ..... Waco
Spencer, Ted L., 4 Agr ..... Gilmer
Spencer, W. R., 1 AA ..... Pittsburg
Spiller, Jo R., 1 Arch ..... Houston
Spiller, Kyle, Jr., 2 CE ..... Jacksboro
Spitler, L. W., Jr., 1 CE ..... Houston
Spivey, J. B., Jr., 1 PreVet ..... Atlanta
Spivey, Marshall, 1 AA ..... Lufkin
Spoede, H. H., 1 PetE ..... Waco
Spoede, J. H., 1 PetE ..... Wallis
Spradley, C. B., 1 Agr ..... Hereford
Springfield, H. B., Jr., 1 PetE .... Houston
Sprinkle, C. C., Jr., 1 ChE ..... Lorena
Sprinkle, P. F., Jr., 1 ME ..... Olney
Sprott, B. M., 1 PreVet ..... Killeen
Sprott, N. H., Jr., 1 Agr ..... Killeen
Spruiell, Lowell L., 3 AgEd .... Iowa Park
Stach, Paul J., 2 AA ..... Cameron
Stafford, J. L., 1 PetE ..... Cisco
Stafford, W. B., 2 VM, Summerfield, N. C.
Staggs, H. W., 1 VM ..... Bryan
Staine, H. A., 1 LA ..... Houston
Staley, S. S., 1 PetE ..... Wichita Falls
Stalheim, O. H., 2 VM ..... College Station
Stallings, F. A., 4 Agr ..... Moody
Stallings, K. H., 1 ChE ..... Dallas
Stalls, F. J., 1 PetE ..... Merkel
Stallworth, G. D., 3 VM ..... El Campo
Stambaugh, C. K., 3 ChE ..... Seguin
Stambaugh, E. H., 1 CE ..... Celina
Stanaland, I. D., 1 PetE ..... Lufkin
Stanbrough, O. H., 1 PetE ..... Iowa Park
Standish, Gus, 1 PetE ..... Houston
Stanford, R. W., 1 CM ..... Bryan
Stanford, T. N., 1 ME ..... Dallas
Stanford, W. J., 2 Agr ..... Hereford
Stanley, A. L., Jr., 2 AgEd .... Queen City
Stanley, A. W., Jr., 2 PetE ..... Joshua
Stanley, E. G., 2 PetE ..... Kilgore
Stanley, H. C., Jr., 2 AgEd ..... Denton
Stanley, J. D., 2 Agr ..... Kaufman
Stanley, O. W., 3 PetE ..... Waco
Stanley, P. W., 1 ME ..... Houston
Stanley, V. B., 1 ME ..... Fort Worth
Stansell, J. A., 4 AA ..... Mart
Stanton, W. L., 3 PetE ..... Houston
Staples, G. W., 4 ME ..... Houston
Stark, J. W., 4 LA ..... Winters
Stark, L. E., 3 IE ..... Victoria
Starkey, J. Y., 1 Sci ..... Big Spring
Starlin, C. A., Jr., 1 ME ..... San Juan
Stasny, C. H., 1 ChE ..... Bryan
Staudt, C. E., 5 Arch ..... San Antonio
Staudt, W. C., 1 AA ..... San Antonio
St. Clair, F. A., 3 AA ..... Brady
Stearman, W. C., 1 CE ..... Dallas
Stechman, C. W., 3 ME ..... Galveston
Steck, H. M., 1 ME ..... Port Arthur
Steed, N. A., 2 PetE ..... Dallas
Steed, W. G., 3 ChE ..... Dallas
Steel, J. P., 2 Agr ..... Stratford
Steele, E. D., 4 AgEd ..... Sidney
Steele, W. J., Jr., 1 AgEd ..... Marlin
Steen, E. W., 4 LA ..... Bryan
Steenson, M. T., 1 ChE ..... Plano
Steffens, K. K., 4 Agr ..... Brady
Steimel, R. M., 2 PetE .... San Antonio
Stein, P. D., 4 VM ..... Bryan
Steinkamp, Henry, Jr., 3 AgEng, Crawford
Stellmacher, Ted, 1 ChE ..... Dallas
Stengel, Lee R., 1 AA ..... Mason
Stephen, Geo. A., 1 PetE ..... Kilgore
Stephens, E. E., 3 AA ..... Greenville
Stephens, G. S., 4 PetE ..... Waco
Stephens, J. A., 1 PetE ..... Houston
Stephens, J. H., 1 LA ..... Fort Worth
Stephens, N. M., 1 ME ..... Mexia
Stephens, R. A., 1 AgEd ..... Gordon
Stephens, S. M., 4 VM ..... Fort Worth
Stephens, T. S., 1 CE ..... Temple
Stephens, W. H., 2 ME .... College Station
Stephens, W. R., 2 Agr .... Mt. Pleasant
Stephenson, J. F., 2 EE ..... Houston
Stephenson, R. C., 2 Agr ..... Bremond
Stephenson, W. W., 4 Agr .... Fort Worth
Sterling, E. A., 1 ME ..... Laredo
Sterling, J. B., 4 Agr ..... Dayton
Sterling, J. R., Jr., 1 Agr ..... Conway
Stern, L. H., 4 AgEng ..... Brenham
Sternenberg, W. W., 1 Arch ..... Canyon
Steuver, G. E., 3 ME ..... San Antonio
Stevens, J. J., 1 CE ..... Moody
Stevens, J. R., 1 PetE ..... San Antonio
Stevens, J. T., 1 AgEng ..... Bandera
Stevens, P. L., 1 LA ..... Fort Worth
Stevens, T. D., 3 EA ..... Jacksonville
Stevenson, C. H., 1 AA .... Johnson City
Stevenson, F. C., 4 LA ..... Abilene
Stevenson, R. L., 1 AA ..... Lovelady
Steward, T. B., 1 IE ..... Rosser
Stewart, A. M., 2 Agr ..... Bryan
Stewart, C. C., 1 Agr ..... Abilene
Stewart, J. S., 1 ME ..... Waco
Stewart, J. S., 1 PetE ..... Houston
Stewart, L. L., 4 Agr ..... Eddy
Stewart, L. W., 1 CE ..... Junction
Stewart, T. G., 2 Agr ..... Bryan
Stewart, W. J., 3 Agr ..... Bryans Mill
Stice, H. C., Jr., 1 LA ..... Dallas
Stidham, G. L., 1 EE ..... Uvalde
Stiff, J. S., 1 PetE ..... Big Spring
Stitt, Ira B., 3 PetE ..... Dallas
Stocking, R. A., 1 PreVet ..... Bryan
Stockley, H. F., 1 AA ..... Marion, Ark.
Stokes, H. C., 2 ChE ..... Beaumont
Stokes, J. D., 2 AgEng ..... Port Arthur
Stone, C. A., 2 Agr ..... Eddy
Stone, G. M., 1 PetE ..... Amarillo
Stone, H. L., 1 ChE ..... Houston
Stone, Jack, 1 Eng ..... Dallas
Stone, James D., 1 ME ..... McKinney
Stone, J. H., 1 PetE ..... Dallas
Stone, R. S., 2 Agr ..... Holland
Stone, S. S., 4 AA ..... Nacogdoches
Stoneham, S. L., 4 Sci ..... Stoneham
Stopple, W. J., 1 EE ..... Dallas
Storey, J. T., 1 CE ..... Lockhart
Storms, H. H., 4 Agr ..... San Marcos
Storseth, J. R., 1 AA ..... Amarillo
Story, D. A., 2 CE ..... Corsicana
Story, J. R., 4 AgEng ..... Alice

Stovell, J. C., 1 ArchE ..... Alpine
Stovell, T. H., 1 AA ..... Alpine
Strahan, B. B., 1 Sci ..... Cottonwood
Stratos, N. L., 1 PreVet ..... Houston
Stratton, J. B., 1 VM ..... Velasco
Strauch, C. B., 1 PetE ..... Normanna
Strawbridge, W. D., 1 Arch ..... Dallas
Streater, L. C., 1 EE ..... Port Arthur
Streb, E. L., 2 AgEng ..... Kennedy
Streicher, W. G., 4 AgEng .... Seagoville
Stribling, S. C., 4 Agr ..... Rotan
Strickland, D. E., 1 AA ..... Dallas
Strickland, J. C., 2 Agr ..... Naples
Striegler, G. W., 1 AA .... Johnson City
Stringer, C. J., 1 Eng ..... Fort Peck
Stripling, Haskell, 2 RE ..... New London
Strode, Willard, 1 Arch ..... McKinney
Stroebele, H. A., 1 EE ..... Marshall
Stroeck, A. C., 1 Arch ..... San Antonio
Strohacker, L. G., 3 ME ..... Kerrville
Stroman, W. J., 2 Agr ..... San Angelo
Stromberg, E. H., 1 AA ..... Lockhart
Stropp, W. K., 4 AA ..... Gilmer
Strother, C. P., 2 ME ..... Port Arthur
Strother, J. F., 3 EE ..... San Antonio
Stroud, W. P., 3 ChE ..... Dallas
Struwe, N. L., 1 EE ..... San Antonio
Struwe, R. M., 4 AA ..... Waxahachie
Stuart, T. E., 1 Agr ..... Roby
Stubbs, F. N., 1 EE ..... Sanatorium
Stubbs, S. G., 1 ChE ..... San Antonio
Stubbs, V. B., 1 AA ..... Hearne
Stucke, H. C., 2 ME ..... San Antonio
Studer, T. N., 2 LA ..... Canadian
Stukenburg, D. K., 1 LA .... Ardmore, Okla.
Stukenburg, J. D., 4 PetE, Ardmore, Okla.
Stultz, Gus, 2 AgEd ..... Garland
Stumberg, H. E., 1 ME ..... Rockport
Stump, C. F., 1 CE .... El Dorado, Ark.
Sturdivant, W. C., 4 ChE .... Fredericksburg
Sturkie, H. N., 2 VM ..... Gustine
Sturtevant, R. A., 1 PreVet .... San Antonio
Sudbury, R. J., 1 Sci ..... Waco
Sullivan, E. H., 4 EA .... Shreveport, La.
Sullivan, J. B., 1 Agr ..... Rosser
Sullivan, J. D., 1 ME ..... Garner
Sullivan, R. J., 1 PetE .... Shreveport, La.
Sullivan, R. P., 2 PetE-ME ..... Houston
Sullivan, T. C., 1 CE .... Balboa, Canal Zone
Sullivan, W. W., 3 EA ..... Fort Worth
Surovik, W. L., Jr., 3 ChE ..... Caldwell
Sutherland, T. H., 1 CE ..... Archer City
Swain, W. C., 1 ChE ..... Dallas
Swallow, F. W., 2 Agr ..... Fort Worth
Swanson, L. R., 3 Agr ..... Houston
Swanson, R. H., 1 ME .... Ludlow, Penn.
Swarthout, E. W., 4 VM ..... Bryan
Swearingen, R. L., 1 ArchE .... San Antonio
Swearingen, W. C., 2 Agr ..... Woodville
Sweeney, R. L., Jr., 2 ChE .... Hagerman
Sweaten, D. W., 4 IE ..... Lott
Swigert, W. F., 1 CE ..... Waco
Swinney, A. E., 1 LA ..... Medina
Sybert, G. L., 4 AgEd ..... Alba
Syfan, R. C., 3 AgEd ..... San Antonio
Synnott, W. H., 4 Sci ..... Houston
Syptak, A. T., 1 IE ..... Bryan
Syptak, R. A., 2 AA ..... Bryan
Szcotka, L. A., 1 CM .... Golyuio, Poland
Tableman, J. H., 1 AA ..... Cisco
Tabor, C. E., 2 PetE ..... Houston
Tabor, J. F., 4 Sci ..... Fort Worth
Taff, J. G., 2 PetE ..... Beaumont
Taite, R. C., 1 EE ..... Bremond
Takacs, J. E., 4 ME ..... Houston
Talbot, H. G., 2 AgEng ..... Big Spring
Talley, J. W., 1 ChE ..... Caddo
Tamargo, E. M., 3 ChE .... Saltillo, Mexico
Tampke, H. R., 1 AA ..... San Antonio
Tarter, J. B., 2 AA ..... College Station
Tarver, J. H., 3 PetE .... Shreveport, La.
Tate, H. C., 1 Agr ..... Kingsland
Tate, J. B., 1 AgEd ..... Waxahachie
Tatum, J. L., 3 AgEd ..... Dublin
Tatum, Ralph, 2 Agr ..... Corsicana
Tatum, R. M., 2 AA ..... Bryan
Taylor, Andy J., 2 AA ..... Eastland
Taylor, C. C., 1 Sci ..... Corpus Christi
Taylor, C. E., 2 Agr ..... Denison
Taylor, C. M., 1 AA ..... San Antonio
Taylor, D. F., Jr., 4 PetE ..... Dallas
Taylor, F. B., 1 PetE .... Blooming Grove
Taylor, Glenn, Jr., 1 Agr ..... Albany
Taylor, G. C., 2 AA ..... Lampasas
Taylor, H. R., 2 Agr ..... Jefferson
Taylor, Jimmie, 1 ME ..... Sonora
Taylor, J. B., 1 Agr ..... Aspermont
Taylor, J. W., 4 ME ..... Taylor
Taylor, K. A., 2 Agr .... Walters, Okla.
Taylor, S. R., 2 Sci ..... San Antonio
Taylor, T. A., 4 AA ..... Groesbeck
Taylor, W. M., Jr., 5 Arch ..... Corsicana
Taylor, W. R., 4 Agr ..... North Zulch
Tays, Henry O., 1 PetE .... New Braunfels
Teaffs, S. E., 4 AA ..... Houston
Teague, J. A., 1 CE ..... Shannon
Teal, R. F., 4 Agr ..... Jacksonville
Tedd, W. A., 1 Arch ..... Flatonia
Teissler, R. B., 4 ChE ..... Denison
Teller, W. A., 4 PetE ..... Westhoff
Tepe, E. L., 2 EE ..... Canadian
Terrell, K. V., 1 ChE ..... El Paso
Terrell, L. H., 4 Agr ..... College Station
Terry, L. W., 3 Agr ..... San Saba
Terry, M. F., 1 PetE ..... San Antonio
Thaxton, J. H., 1 VM ..... Cherokee
Thaxton, Tom, 3 VM ..... Cherokee
Thedford, M. F., 2 Agr ..... Tyler
Thieme, C. M., 4 Agr ..... San Benito
Thomas, A. D., 1 ME ..... Overton
Thomas, A. J., Jr., 4 AA ..... Sherman
Thomas, Charles, 2 ME ..... Austin
Thomas, Clifton, 3 AgEd ..... De Leon
Thomas, E. F., 4 ChE .... Sulphur Springs
Thomas, E. F., 1 PetE ..... Jefferson
Thomas, E. R., 2 AgEd ..... Thornton
Thomas, E. W., 4 VM ..... Gainesville
Thomas, G. G., 1 Agr ..... Gem
Thomas, H. O., 2 AA ..... Thorp Spring
Thomas, J. B., 1 VM ..... Fort Worth
Thomas, J. C., 2 AA ..... Bryan
Thomas, J. D., 1 ME ..... Georgetown
Thomas, Julian H., 2 VM .... Port Arthur
Thomas, J. W., Jr., 3 PetE ..... Cisco
Thomas, K. O., 2 ME ..... Cisco
Thomas, N. E., 1 TE ..... Thorp Spring
Thomas, W. G., 1 AA ..... Elbert
Thomas, W. K., 1 PreVet ..... Merred, Cal.
Thomas, W. S., 4 Agr ..... Weatherford
Thomason, J. N., 2 AA ..... Brownwood
Thompson, C. F., 1 PreVet ..... Pearsall
Thompson, C. M. K., 1 Sci ..... Lufkin
Thompson, F. L., 2 ME ..... La Porte
Thompson, G. T., 3 AgEng ..... La Feria
Thompson, H. E., 1 LA ..... Dallas
Thompson, H. I., 1 PetE ..... Marshall
Thompson, Irvin, 2 LA ..... Silsbee
Thompson, J. D., 1 ChE ..... Navasota
Thompson, J. N., 3 EE ..... Ravenna
Thompson, J. R., 4 Agr ..... Lovelady
Thompson, J. W., 1 ChE ..... Miami
Thompson, Lassiter, 1 LA ..... El Paso
Thompson, L. E., 3 ChE ..... Fort Worth
Thompson, M. J., 1 LA ..... Fort Worth
Thompson, M. S., 3 Agr ..... Wills Point
Thompson, R. D., Jr., 4 AgEng, Chillicothe

Thompson, Roy Douglas, 1 Agr .... Bellville
Thompson, R. F., 4 AgEd ..... Atlanta
Thompson, Ralph F., 3 ChE .... San Antonio
Thompson, R. H., 1 AA ..... Pearsall
Thompson, R. J., 1 ME ..... McKinney
Thompson, R. W., 1 ME ..... Dallas
Thompson, S. N., 2 EA ..... Temple
Thompson, V. H., 1 Arch ..... Houston
Thompson, W. W., 1 Agr ..... Waxahachie
Thomson, F. C., 3 ME ..... Paris
Thorburn, G. W., 2 AA ....Wichita Falls
Thorne, E. P., 1 FetE ..... Dallas
Thornton, C. V., 2 AA ..... Blum
Thornton, H. A., 1 ME ..... Groves
Thornton, J. Rembert, 1 ME ..... Denison
Thornton, J. Rex, Jr., 3 Land ..... Farwell
Thornton, M. I., 4 CE ..... Groves
Thornton, Penrod, 3 AA ..... Gonzales
Thornton, W. B., 4 AA ..... McAllen
Thrift, D. B., 4 AA ..... San Antonio
Thrift, W. T., 1 ArchE ..... San Antonio
Thurman, D. C., 1 Agr ..... Menard
Thwing, Jimmie (R. C.), 1 PetE .....
..... Aransas Pass
Thysell, J. Rogers, 3 Agr .... Mandon, N. D.
Tidwell, C. H., 1 AA ..... Iredell
Tierstein, Victor, 4 VM ..... Bryan
Tilley, E. N., 3 ME ..... Mineola
Tilley, G. E., 1 PetE ..... Beaumont
Tillman, A. Y., Jr., 1 LA ..... Menard
Tillson, G. W., 3 Agr ..... Mission
Tilton, R. J., 1 PetE ..... Houston
Timm, H. O., Jr., 1 PetE ..... Hallettsville
Timmerman, B. O., 3 LA ..... Rockdale
Timmins, James F., 1 CE ..... Waxahachie
Timmons, A. F., Jr., 1 AA ..... Hearne
Timmons, E. A., 2 CE ..... Amarillo
Tims, N. J., Jr., 3 EE ..... Abilene
Tiner, E. L., 4 AgEd ..... Trent
Tinker, Thomas, 3 AA ..... Mt. Vernon
Tinney, J. R., 4 AgEd ..... Bowie
Tinsley, J. E., 3 PetE ..... Madisonville
Tips, E. F., 2 Sci ..... Seguin
Tirk, A. T., Jr., 3 Agr ..... Smithfield
Tischler, Henry, 1 VM ..... Austin
Titley, R. J., 1 FetE ..... Dallas
Titsworth, R. M., 1 PreVet ..... Thrall
Tix, M. H., 1 ME ..... Galveston
Tobias, A. L., 2 LA ..... Bryan
Todd, Dick S., 4 RE ..... Crowell
Todd, F. T., 1 PetE ..... Alice
Todd, J. A. D., 3 ChE ..... Fort Worth
Todd, R. R., 3 Agr ..... Alto
Todd, R. W., 2 ChE ..... Weatherford
Todd, T. P., 1 Sci ..... Timpson
Todd, W. W., 1 PetE ..... San Antonio
Tokunaga, E. M., 1 Agr, Sacramento, Cal.
Toland, A. D., Jr., 3 ME ..... Taft
Toland, C. J., 1 ME ..... Taft
Tolbert, C. W., 1 EE ..... Beeville
Tolbirt, R. C., 4 Agr ..... Columbus
Tom, Hal H., 2 Sci ..... Victoria
Tom, J. C., 4 Sci ..... Harlingen
Tomaso, Leo, 1 EE ..... Dallas
Tomaso, Louie, 1 PetE ..... Dallas
Tomayko, Val, 3 VM .... Clifton, New Jersey
Tomek, J. A., 2 IE ..... Houston
Tomerlin, M. A., 1 PreVet .... San Antonio
Tomlin, J. R., 2 ChE ..... Bullard
Tomlinson, W. N., 1 Arch ..... Dallas
Tonkin, R. G., 2 PetE ..... San Antonio
Tooraen, E. W., 2 ChE .... College Station
Topletz, H. M., 4 LA ..... Dallas
Toro, Enrique, Jr., 2 VM .....
..... Ponce, Puerto Rico
Torrance, R. E., 4 Agr ..... Swenson
Tosch, R. L., 4 EE ..... Mesquite
Towery, Pat, 2 CE ..... Crockett
Towns, Albert, 1 Agr ..... Georgetown
Towns, C. F., 3 Agr ..... Brownsville
Towns, J. P., 2 PetE ..... Gillett
Townsend, G. P., 2 ME ..... Houston
Townsley, J. B., 1 LA ..... Gainesville
Trail, C. D., 4 Agr ..... Kaufman
Tramonte, J. J., 2 Agr ..... Galveston
Trant, Robert C., 1 Agr ..... Bryan
Trapolino, J. M., 4 AA ..... Houston
Trapolino, S. L., 4 AA ..... Houston
Trcalek, B. F., 2 CH ..... Caldwell
Treadaway, W. A., 3 Agr ..... Lindale
Treadwell, R. S., 3 Agr ..... Menard
Tregre, L. S., 1 Arch, Baton Rouge, La.
Trenton, P. H., 1 Agr ..... San Antonio
Trew, E. M., Jr., 3 Agr ..... Wellington
Trewitt, H. S., Jr., 1 ME ..... Dallas
Triesch, G. R., 2 Agr ..... San Antonio
Trigo, J. E., 1 Agr, San Juan, Puerto Rico
Trimble, A. R., Jr., 4 Sci .....
..... Sand Springs, Oklahoma
Trimble, H. B., 2 AA ..... Greenville
Trimble, H. F., 3 AgEd ..... Lone Oak
Trimble, R. D., Jr., 3 PetE ..... Greenville
Tripp, E. W., Jr., 1 Agr ..... Megargel
Trott, J. I., 1 PetE ..... Barstow
Trotter, G. P., 2 ME ..... Nederland
Trout, O. W., 1 PetE ..... Sugarland
Troxel, S. E., 1 Agr ..... Gladewater
Tschumy, W. O., Jr., 1 ChE ..... Galveston
Tuccori, F. E., 1 EE ..... Galveston
Tucker, B. B., Jr., 2 VM ..... Fort Worth
Tucker, H. G., 1 PetE ..... Houston
Tullos, McAdoo, 1 AgEd ..... Groveton
Tumlinson, P. H., 1 Arch ..... Bryan
Tumlinson, S. H., 4 AA .... Raymondville
Turcotte, D. D., 1 Agr ..... Pampa
Turner, C. E., Jr., 2 ME, Texarkana, Ark.
Turner, G. A., 1 PetE ..... Port Arthur
Turner, G. E., 3 AA ..... Huntsville
Turner, H. A., 1 Sci ..... Victoria
Turner, J. N., 1 AgEd ..... Daingerfield
Turner, J. O., 1 LA ..... Amarillo
Turner, M. H., 2 Agr ..... Childress
Turner, P. A., 1 PetE, Shreveport, La.
Turner, W. F., 4 AgEd ..... Gainesville
Turner, W. K., 1 Sci ..... Kermit
Tutt, W. G., 1 AA ..... Abilene
Tynes, N. J., 2 Arch ..... Thornton
Tyson, John, 2 AgEd ..... Timpson
Udashen, L. J., 1 Sci ..... Waco
Uhr, C. W., 4 AA ..... San Antonio
Ulbrich, L. E., 2 FetE ..... San Antonio
Ulmer, C. M., 1 ME ..... San Angelo
Underwood, H. A., 2 Land ..... Amarillo
Underwood, W. R., 1 LA ..... San Antonio
Upshaw, D. C., 1 Agr ..... San Antonio
Upton, A. C., 2 CE ..... Healdton, Okla.
Urdaneta, R. S., 1 Agr .....
..... Maracaibo, Venezuela, S. A.
Uribe, T. D., 2 VM .....
..... Caracas, Venezuela, S. A.
Urrea, I. T., 1 LA, Piedras Negras, Mex.
Ussery, L. R., 1 EE ..... Carbon
Utterback, A. P., 4 LA ..... Brackettville
Uzzell, Pierce, 2 Agr ..... Uvalde
Valcik, Stanley, 1 Arch ..... Houston
Valdez, Juan, Jr., 1 AA ..... San Antonio
Valdez, L. M., Jr., 2 ME .... San Antonio
Valentine, J. H., 4 Agr ..... Edgewood
Valentino, F. D., 2 ME ..... Houston
Valle, J. O., 1 AgEd ..... Rio Grande
Valle, M. A., 1 ME ..... Garland
Van Atten, J. L., 4 PetE .... Corpus Christi
Vance, J. E., 1 Agr ..... Bryan
Van Cleave, G. C., 1 EE ..... Port Arthur
Van Lear, T. A., 2 PetE ..... San Antonio
Van Zandt, Arel, 1 EE ..... Zephyr

Varisco, Tony, Jr., 1 Sci ..... Bryan
Varner, D. B., 3 AA ..... Cottonwood
Vasquez, H. V., 1 AgEng ..... Mexico City, Mexico
Vaughan, C. C., 1 EE ..... Pearsall
Vaughan, J. R., 4 PetE ..... Dallas
Vaughn, Tommie, 2 AA ..... Brownwood
Vaughn, W. E., 3 AA ..... Vernon
Velasco, R. E., 2 AgEng ..... Elcano Gandara, P. I.
Velten, W. M., 1 CE ..... Brownsville
Venner, J. P., 1 AA ..... Wolfe City
Venner, R. C., 2 AA ..... Wolfe City
Veselka, E. O., 3 PetE .... Corpus Christi
Vestal, M. E., 1 ChE ..... Mart
Vezey, E. E., 2 ME .... College Station
Vick, J. F., 4 PetE ..... Bryan
Vick, W. D., 1 Sci ..... Bryan
Vickery, R. L., 1 CE ..... Waco
Villamil, J. A., 1 Agr ..... Arecibo, Puerto Rico
Vines, W. B., 2 Agr ..... Comanche
Virgil, W. E., 1 EE ..... Dallas
Vittetoe, R. C., 4 Agr ..... Edcouch
Vivian, E. A., 1 Agr ..... George West
Vivian, J. M., 1 Agr ..... George West
Vivian, R. L., 1 PreVet, Carrizo Springs
Vogel, A. M., 1 ME ..... Texarkana
Vogel, J. H., 1 EE, El Dorado, Ark.
Vogel, P. J., 1 Agr ..... Texarkana
Vogelman, Leo, 2 VM .... College Station
Voigt, M. G., 2 PetE ..... San Antonio
Voliva, E. A., 2 ME ..... Midland
Vollentine, J. T., 2 AA ..... Gonzales
Volz, M. D., 1 ME ..... Mission
Voorhis, E. J., 1 ChE ..... Dallas
Voss, Harry C., 1 VM ..... Jonesboro
Voss Herman C., 1 ME ..... Houston
Voss, T. E., 3 Agr ..... Post
Waddell, J. M., 1 PetE ..... Houston
Waddell, T. C., 2 Agr ..... Kermit
Wade, D. F., Jr., 1 LA ..... Lexington
Wade, R. C., 3 ME ..... Brownsville
Wadhwani, L. H., 1 Agr .... Hirabad, India
Wadsworth, S. V., 1 LA ..... Dallas
Waggoner, C. P., 1 Agr ..... Denton
Waggoner, J. N., 3 PetE ..... Ranger
Wagner, C. W., 1 ME ..... El Paso
Wagner, D. A., 2 EE ..... Burton
Wagner, F. L., 1 Arch ..... Temple
Wagner, Oliver, 1 EE ..... Burton
Waidhofer, J. J., 4 Sci ..... Galveston
Waidhofer, Lawrence, 2 IE ..... Galveston
Wakefield, C. O., 1 AA ..... Midway
Wakefield, L. A., Jr., 1 Sci .... Madisonville
Wakeland, E. W., 1 AA ..... Forreston
Walden, J. C., 1 PetE ..... Fort Worth
Waldman, M. P., 1 LA ..... Liberty
Waldron, D. D., 1 PetE ..... Waskom
Walker, A. S., 1 LA ..... Leander
Walker, C. C., 2 Agr ..... College Station
Walker, C. L., 2 CE ..... Denison
Walker, E. A., 3 Agr ..... Llano
Walker, F. D., 1 PetE ..... Knox City
Walker, F. E., 2 ME ..... Port Arthur
Walker, G. H., 2 AA ..... Gladewater
Walker, Harvey, 1 Agr ..... Shamrock
Walker, Herbert H., 2 VM ..... Comstock
Walker, Julian, 1 AA ..... Edinburg
Walker, J. J., 2 ME ..... Crystal City
Walker, J. M., 1 Land ..... Brownsville
Walker, J. N., 1 Agr ..... Waco
Walker, James W., 1 CE .... Gainesville
Walker, Joseph W., Jr., 3 VM .... Gainesville
Walker, K. H., 4 ME ..... Laredo
Walker, L. H., 4 AgEd .... Walnut Springs
Walker, R. A., 3 AgEd ..... Breckenridge
Walker, W. L., Jr., 1 ME ..... Waco
Walker, W. P., Jr., 3 ChE ..... Crosbyton
Walker, W. T., Jr., 3 Agr ..... San Saba
Wall, J. E., 3 ChE ..... Grapevine
Wallace, C. A., 2 LA ..... Slocum
Wallace, F. L., 4 PetE ..... Cisco
Wallace, M. D., 4 AA ..... Houston
Wallace, S. M., 1 Agr ..... Cuero
Wallace, Wield, 2 ME ..... Dallas
Wallace, W. B., 1 PetE ..... Llano
Wallace, W. W., 2 PetE ..... Cisco
Walling, B. J., 1 Sci ..... Temple
Wallis, R. P., 2 Agr ..... Gainesville
Wallis, W. R., 2 Land ..... Houston
Walls, L. M., 4 PetE ..... Seguin
Walstad, J. H., 3 PetE ..... Pampa
Walters, R. D., 1 PetE ..... Pecos
Walters, J. A., 1 PetE ..... Iraan
Walton, D. H., 1 AA ..... El Paso
Walvoord, J. G., 1 EE ..... Dallas
Ward, B. D., 1 AA ..... Del Rio
Ward, C. G., 3 Agr ..... Round Rock
Ward, D. L., 4 PetE ..... Harlingen
Ward, D. S., 4 VM ..... Valley View
Ward, E. W., 1 Agr ..... Lipan
Ward, J. L., 3 Agr ..... Centerville
Ward, R. P., 1 Sci ..... San Antonio
Ward, W. T., 1 Agr ..... Childress
Warden, O. C., 2 LA ..... Ranger
Warden, T. B., Jr., 1 CE ..... Austin
Ware, C. T., Jr., 1 Arch ..... Fort Worth
Ware, J. N., 1 EE ..... Houston
Warne, R. R., 2 PetE ..... Goose Creek
Warner, E. B., 3 ChE ..... Waco
Warner, H. C., 1 Agr .... College Station
Warner, J. M., 2 AA ..... Waco
Warner, J. R., 1 AA ..... Fort Worth
Warner, R. O., 1 ChE ..... Iraan
Warnke, H. F., 2 ChE ..... San Antonio
Warren, A. G., 2 Agr ..... Fort Worth
Warren, H. P., 1 IE ..... Fort Worth
Warren, J. T., 4 Agr ..... Center
Warren, R. J., 1 AA ..... Marlin
Warren, R. M., 1 AA ..... Frisco
Warrick, T. J., 1 PetE ..... Pittsburg
Watanabe, Ken, 1 ME ..... Webster
Watanabe, Taro, 2 Agr ..... Toyko, Japan
Waters, P. G., 3 E. A. ..... Houston
Watkins, L. E., 2 CE .... Bartlesville, Okla.
Watkins, M. L., 1 AgEd ..... Eden
Watkins, N. R., Jr., 4 AgEd .... Rosebud
Watkins, O. M., Jr., 4 PetE ..... Houston
Watkins, R. R., 3 VM, Factoryville, Pa.
Watkins, W. S., 1 LA .... Farmington, Mo.
Watley, J. D., 2 PetE ..... Brownwood
Watley, V. T., 1 ChE ..... Groom
Watson, C. R., 4 VM ..... Merkel
Watson, D. H., 3 AA ..... Waco
Watson, E. I., 1 CE ..... Houston
Watson, E. O., 4 AgEd ..... Marquez
Watson, F. B., 3 AgEd ..... Ranger
Watson, Osborn, Jr., 1 CE ..... Joaquinn
Watson, R. F., 1 PetE ..... Marshall
Watson, W. A., 3 Sci ..... Kirbyville
Watters, H. B., Jr., 1 EE ..... El Paso
Watterson, C. C., 3 Agr ..... Bastrop
Watts, C. O., 2 PetE ..... Gainesville
Watts, F. B., 4 VM ..... Gainesville
Watts, Geo. H., 2 Agr ..... Chester
Watts, J. R., 1 PetE ..... Houston
Way, W. E., 1 CE ..... Borger
Wear, J. S., 1 FetE ..... Houston
Weatherby, H. A., 2 AgEd ..... Hillsboro
Weathersbee. L. O., 2 AA ..... Del Rio
Weaver, L. H., 4 VM ..... San Antonio
Weaver, O. M., 2 ME ..... Bonham
Weaver. P. A., Jr., 3 ChE ..... Dallas
Webb, G. A., Jr., 1 AA ..... Dallas
Webb, G. R., 1 CE ..... Fort Worth

Webb, H. H., 3 ME ..... Houston
Webb, J. F., 1 PetE ..... San Angelo
Webb, L. A., 3 AgEd ..... Farmersville
Webber, J. C., 4 ME ..... Arp
Webber, M. H., 1 ME ..... Houston
Weber, L. L., 1 Agr ..... La Grange
Wegenhoft, Victor C., 3 LA .... Rock Island
Wehner, B. T., 4 ME ..... Del Rio
Wehner, E. L., 2 AA ..... Del Rio
Wehner, H. H., Jr., 4 EE ..... Del Rio
Wehrle, L. J., 3 AA ..... Wellman, Iowa
Weihs, H. F., 1 LA ..... Sherman
Weir, F. M., 2 AA ..... Karnes
Weirus, Richard, 1 IE ..... San Antonio
Weisiger, F. G., 1 ChE ..... San Antonio
Welch, H. C., 2 Sci ..... Sabine Pass
Welch, L. R., 1 ME .... Shreveport, La.
Weldon, C. L., 2 ChE ..... San Angelo
Wellborn, J. H., 2 PetE ..... Houston
Wells, J. D., 3 ME ..... Houston
Wells, R. A., 4 AgEd .... Longstreet, La.
Wells, R. D., 3 AgEd ..... Graham
Welsh, L. D., 1 VM ..... Lubbock
Welsh, T. C., Jr., 1 ChE ..... Houston
Wendler, C. C., 4 AA ..... Boerne
Wenmohs, M. J., 3 AA .... College Station
Wentworth, Earl, Jr., ,4 CE .... Von Ormy
Wernly, W. R., 1 AA ..... Dallas
Werntz, O. G., 4 VM .... College Station
Wessom, T. E., 1 AA ..... Temple
West, Arthur C., 2 AgEng, Cleveland, Miss.
West, B. M., 1 Sci ..... Amarillo
West, J. R., 2 CE ..... Dallas
West, R. H., 1 CE ..... Dallas
West, R. P., 3 GE ..... Edinburg
Westbrook, C. H., Jr., 1 ChE ..... Melvin
Westbrook, L. J., 1 LA ..... Kerens
Westerman, M. A., 4 AgEd, Valley Springs
Weston, R. S., 4 VM ..... Bryan
Weydell, A. T., 2 ME .... Carrizo Springs
Whall, C. W., 2 EE, San Juan, Puerto Rico
Whatley, H. J., Jr., 1 EE ..... Jayton
Wheat, A. D., 4 AgEd ..... Graham
Wheatley, R. G., 1 AgEd ..... Haskell
Wheatley, W. P., 2 AA ..... McKinney
Wheeler, E. B., 2 EE ..... Port Arthur
Wheeler, G. W., 3 ME ..... Victoria
Wheeler, S. A., 1 Agr ..... Weatherford
Wheelis, R. E., 4 LA ..... Mart
Wheelus, T. L., 1 PetE ..... Hugo, Okla.
Whitaker, D. W., 2 ME ..... San Antonio
Whitaker, Hiram, 1 PetE ..... Mertzon
White, A. D., 1 Agr ..... Silverton
White, A. E., 1 AgEd ..... Pearsall
White, A. W., 1 PreVet ..... Silverton
White, Billy, 1 CM ..... Fort Worth
White, Blake F., 1 ME ..... Corsicana
White, B. M., 4 VM ..... Luling
White, C. E., 1 IE ..... Anna
White, David J., 2 Sci ..... Cuero
White, D. S., 1 AA ..... Gatesville
White, Edgar A., 4 AA .... Corpus Christi
White, E. M., Jr., 4 LA .... College Station
White, Finis L., 1 AA ..... Cleburne
White, G. C., Jr., 4 EE ..... Bryan
White, J. N., 1 Agr ..... Dallas
White, J. R., 3 PetE ..... Lubbock
White, K. L., 1 PetE ..... Borger
White, R. B., 1 Sci ..... Ennis
White, R. R., 4 PetE ..... San Antonio
White, R. W., 4 AgEng ..... Dublin
White, S. L., 1 AgEd ..... Pearsall
White, S. M., 2 AgEng ..... Houston
White, V. C., 3 PetE ..... Amarillo
hite, W. F., 4 EA ..... Dublin
White, W. C., 4 Sci ..... Gladewater
White, W. W., 4 AgEd ..... Winters
White, Wayford W., 1 ME ..... Lipan
Whitehead, W. G., 2 Agr ..... Greenwood
Whitehurst, W. C., 3 Agr ..... Mesquite
Whiteley, E. L., 1 Agr ..... Georgetown
Whitener, Oliver, 1 Agr ..... Burton
Whitfill, R. K., 1 AgEd ..... Pottsboro
Whitley, A. M., 1 AA ..... San Antonio
Whitman, E. E., 1 CE ..... Pasadena
Whitmore, H. E., 1 CE ..... Denison
Whitney, C. C., 1 ME ..... Brownsville
Whitney, E. P., 2 Arch ..... Fort Brown
Whitson, C. E., 1 Agr ..... Alvin
Whitson, J. W., 2 CE ..... Milford
Whitt, J. B., 2 Sci ..... Texarkana
Whittet, G. A., 1 ME .... Washington, D. C.
Whittle, G. C., 1 ME ..... Lawn
Whitworth, C. L., 1 Agr .... Rocksprings
Whorton, E. H., 4 AA ..... Bryan
Wicklund, H. P., 1 ME ..... Houston
Wier, G. S., 1 CE ..... Alice
Wieting, J. H., 1 EE ..... Marlin
Wigginton, J. H., 1 Sci ..... Brady
Wiggins, H. R., 3 VM ..... Bryan
Wiggs, J. H., 4 AA ..... El Paso
Wight, C. C., 1 PetE ..... San Antonio
Wignall, P. R., 2 ME ..... Port Arthur
Wilborn, C. L., 3 Agr ..... Eagle
Wilcoxon, J. D., Jr., 1 VM .... Odessa, Mo.
Wilde, E. L., 3 Agr ..... La Sara
Wilder, D. L., 1 CE ..... Mineral Wells
Wilder, W. W., 1 ChE .... Corpus Christi
Wilems, H. W., 1 AA ..... Yorktown
Wilhite, W. C., 1 PetE ..... Temple
Wilk, Jake L., 2 AA ..... Houston
Wilkinson, A. L., 4 EE ..... Sour Lake
Wilkinson, C. M., 4 Agr ..... Menard
Wilkinson, Marion, 2 Agr ..... Devine
Willey, C. R., 3 VM ..... Shelbyville
Willey, N. B., 3 Agr ..... Mauriceville
Willhouse, W. R., 1 ME ..... Houston
Williams, B. Hester, 1 AA ..... Terrell
Williams, B. Hilliard, 2 AA ..... Gary
Williams, Carl, 1 EE ..... San Augustine
Williams, Charles B., Jr., 2 Agr, Comanche
Williams, C. E., 3 ME .... Ardmore, Okla.
Williams, C. H., 2 PetE ..... San Antonio
Williams, C. S., 2 EE ..... Houston
Williams, C. W., 2 PetE ..... Mexia
Williams, D. L., 1 PetE ..... Dallas
Williams, Geo. Jr., 1 Agr ..... Eldorado
Williams, Geo. R., 1 AgEd ..... Comanche
Williams, G. W., 1 ME ..... Marlin
Williams, H. R., 3 AA ..... Smithville
Williams, J. A., Jr., 3 PetE, College Station
Williams, J. C., 4 Agr ..... Mexia
Williams, J. D., 1 LA ..... Overton
Williams, J. Henry, 1 CE ..... Sherman
Williams, J. N., 1 PetE ..... Saltillo
Williams, J. S., 3 Agr ..... Brownwood
Williams, J. T., Jr., 1 ME ..... Angleton
Williams, J. W., 2 EE ..... Munday
Williams, K. R., 1 EE ..... Clint
Williams, L. B., 3 ME ..... Hamlin
Williams, M. E., 4 AA .... Sulphur Springs
Williams, M. G., 3 CM ..... Amarillo
Williams, N. G., 1 PetE .... Corpus Christi
Williams, O. R., 2 PetE ..... Palestine
Williams, P. T., 1 Sci ..... Port Arthur
Williams, Richard D., 3 CE ..... Mexia
Williams, Robert D., 1 EE ..... Bangs
Williams, R. H., 2 LA .... Carrizo Springs
Williams, R. J., 3 AA ..... Canatillo
Williams, R. O., Jr., 1 EE .... Foulton, Ky.
Williams, R. V., 1 AA ..... Munday
Williams, S. B., 1 Agr ..... Los Fresnos
Williams, Tant, Jr., 1 AA ..... Mt. Calm
Williams, T. A., 1 Agr ..... San Antonio

Williams, T. H., 1 ME ..... Hamlin
Williams, T. S., 2 ME ..... Dallas
Williams, W. P., 2 PetE ..... Houston
Williamson, Dutton, 1 ME .... Fort Stockton
Willingham, J. E., 1 PetE ..... Sabinal
Willis, C. A., 1 PetE ..... Tampico, Mex.
Willis, D. F., 1 Agr ..... Ross
Willis, J. G., 1 AA ..... Italy
Willmore, J. H., 3 VM ..... Bryan
Willougby, C. M., Jr., 2 Agr ..... Liberty
Willrich, L. H., 1 EA ..... La Grange
Willson, H. C., 4 GE ..... Cotulla
Willson, R. E., 1 ME ..... Sherman
Wilmeth, E. D., 1 Agr ..... Ebony
Wilmeth, E. E., 1 PetE ..... San Benito
Wilson, A. G., 2 CE ..... McKinney
Wilson, A. W., 1 AA ..... Sanger
Wilson, C. L., 2 PetE ..... Itasca
Wilson, D. C., 2 CE ..... Chillicothe
Wilson, D. G., 4 AgEd ..... Millsap
Wilson, D. L., 1 Agr ..... Bryan
Wilson, E. L., 1 ArchE ..... Dallas
Wilson, E. S., 1 AA ..... Killeen
Wilson, F. B., 1 Sci ..... Bryan
Wilson, F. H., 2 Sci ..... Bryan
Wilson, G. B., 4 Agr ..... El Paso
Wilson, H. H., 1 EE ..... Bryan
Wilson, J. D., 1 AA ..... Canadian
Wilson, L. M., 1 ChE ..... Pasadena
Wilson, M. C., 1 ME ..... Galveston
Wilson, M. R., 2 Agr ..... Giddings
Wilson, O. W., 1 EE ..... Dallas
Wilson, T. F., 1 Sci ..... Pilot Point
Wilson, T. R., 1 ChE ..... Beaumont
Wilson, W. A., Jr., 1 ME, March Field, Cal.
Wilson, W. B., 3 Agr ..... Waco
Wilson, W. D., 1 AA ..... McKinney
Wilson, W. L., 2 AgEd ..... Juanah
Wilt, V. B., 1 EE ..... Pitcairn, Penn.
Wilton, T. A., 1 AgEd .... Richland Springs
Wimer, A. G., 3 EE ..... Texarkana
Wimer, C. J., 4 EE ..... San Antonio
Winborn, T. J., 1 ChE ..... Houston
Winchester, J. M., 1 ChE ..... Shamrock
Winder, N. G., 4 CE ..... Dallas
Windham, J. T., 3 Agr ..... Abilene
Windle, R. H., 2 VM ..... El Paso
Windrow, D. A., 4 Agr ..... Hondo
Windrow, R. J., 2 PetE ..... Dallas
Winkel, R. F., 3 Agr ..... Llano
Winn, W. S., 2 EE ..... Sweetwater
Winn, W. T., 2 AgEd ..... Marquez
Winsor, J. K., 2 EE ..... Dallas
Winston, A. B., 1 ME ..... Waco
Winston, J. M., 4 EE ..... Houston
Winston, Milton, 1 Agr ..... Whitehouse
Winters, T. E., Jr., 1 ME ..... Pearsall
Wischkaemper, T. F. P., 1 Agr, Shamrock
Wise, F. A., 1 PetE ..... Kerens
Wise, W. F., 4 La ..... Dallas
Wisenbaker, G. G., 4 Agr, Elizabeth, La.
Wisenbaker, R. E., 4 AgEng ..... Mineola
Witchell, A. S., Jr., 4 ChE .... San Antonio
Withrow, A. S., 2 ME ..... Teague
Wittenbach, A. J., 1 ME ..... Harlingen
Wittie, L. D., 3 EE ..... Gatesville
Wizig, Bernard, 3 AA ..... Waco
Wizig, M. J., 1 Agr ..... Waco
Woerndel, H. O., 2 AgEd ..... Three Rivers
Wofford, P. O., 4 AA ..... Arlington
Wolf, J. B., 2 LA ..... Lampasas
Wolfe, J. P., 1 PreVet ..... Brady
Wolfe, J. W., 2 VM ..... Bryan
Wolfer, C. J., 2 ME ..... Galveston
Wolter, J. W., 1 AA ..... El Paso
Womach, B. V., 1 ChE ..... Apple Springs
Womack, N. T., 1 PetE ..... Dallas
Womack, N. W., 1 PetE ..... Big Spring
Womble, A. W., 1 AA ..... San Angelo
Womble, J. C., 2 LA ..... Caldwell
Wood, Alvin, 4 AA ..... San Augustine
Wood, F. E., 1 Agr ..... Dripping Springs
Wood, F. M., Jr., 2 Agr ..... San Angelo
Wood, G. L., 3 Agr ..... Dripping Springs
Wood, H. W., 2 VM ..... College Station
Wood, J. W., 3 ME ..... Milford
Wood, R. W., 1 AgEd ..... Madisonville
Wood, V. D., Jr., 1 ME ..... Texarkana
Woodall, J. R., 2 EE ..... Calvert
Woodbridge, R. E., 1 CE ..... San Jose, Costa Rica
Woodell, Parker M., 1 Agr ..... Dallas
Woodman, G. M., 1 PetE ..... Fort Worth
Woods, C. P., 2 Arch ..... Dallas
Woods, R. E., 1 Agr ..... Marquez
Woods, V. B., 4 Agr ..... Marquez
Woodworth, W. C., 1 EE ..... Oklahoma City, Okla.
Woodworth, W. L., 2 ME ..... Orange
Woolridge, W. V., 1 CM ..... Paris
Woolford, W. W., III, 3 PetE .... Galveston
Woolsey, J. W., 1 AgEng ..... Fort Worth
Woolsey, J. E., 1 PetE ..... Houston
Wooten, J. H., 1 ME ..... Navasota
Word, H. G., 2 AA ..... Alice
Word, Jim, 2 AA ..... Terrell
Word, R. H., 2 CM ..... Tyler
Word, W. A., 1 AA ..... Alice
Wornick, D. C., 1 AA ..... Waco
Wortham, J. G., 1 EE ..... China Springs
Worthington, G. T., 2 ME .... San Antonio
Wray, Beswick, 4 CE ..... San Antonio
Wright, A. A., 3 ME ..... Dallas
Wright, E. W., 4 CE ..... San Angelo
Wright, F. Y., 1 LA ..... Corpus Christi
Wright, H. W., 4 Agr ..... Dublin
Wright, J. D., 1 AA ..... Yantis
Wright, J. W., 4 AgEd ..... Quitman
Wright, O. W., 1 PetE ..... Amarillo
Wright, P. C., 2 PetE ..... El Paso
Wright, R. E., 4 EA ..... Alice
Wright, R. M., 4 Agr ..... Eddy
Wright, W. C., 3 Sci ..... Pleasanton
Wurzbach, R. K., 1 ME ..... San Antonio
Wynn, W. W., 2 Sci ..... Hebbronville
Yagen, B. T., 1 Agr ..... Wellborn
Yankee, R. D., 1 ChE ..... Fort Worth
Yarber, R. V., 1 LA ..... Corsicana
Yarbrough, D. B., 2 CE ..... Allen
Yarling, Noel B., 2 Agr ..... Rosenberg
Yarrington, J. T., 1 AA ..... San Marcos
Yater, J. M., 1 AgEd ..... Stanton
Yates, Jack, 4 PetE ..... Dallas
Yates, W. G., 4 LA ..... Temple
Yeargan, J. R., 1 ChE ..... Dallas
Yeargin, R. L., 2 LA ..... Dallas
Yearwood, A. B., Jr., 3 Agr .... Stephenville
Yeary, J. C., Jr., 2 AgEd ..... La Grange
Yeary, W. R., Jr., 4 ME ..... Denton
Yeates, C. H., 3 AgEd ..... Jasper
Yee, A. S., 2 EE ..... El Paso
Yetter, J. N., 1 EE ..... Dallas
Yezak, A. C., 1 Land ..... Bremond
Yezak, M. R., 1 Land ..... Bremond
York, L. E., 1 ChE ..... Waco
Young, F. S., 1 PetE ..... Pasadena
Young, H. R., 1 PetE ..... Houston
Young, J. G., 4 AA ..... Lockhart
Young, J. W., 4 AA ..... Greenville
Young, M. A., 1 AA ..... Henderson
Young, Roy, Spec Sci ..... Port Arthur
Young, W. C., 4 Agr ..... Palestine
Youngblood, B. E., Jr., 1 IE, College Station
Youngblood, R. E., 1 ME ..... Port Arthur
Younie, G. C., 3 ME ..... Dallas
Yowell, J. D., 3 AA ..... Dallas

Yust, R. L., 3 PetE ..... Batson
Zahn, C. W., 3 VM ..... Dallas
Zedlitz, R. M., 1 PreVet ..... Ballinger
Zeiss, L. M., 3 ChE ..... Brenham
Zellers, E. G., 1 VM ..... Bryan
Zelman, N. I., 4 AA ..... El Paso
Zercher, J. C., 3 ChE ..... Dallas
Zerr, J. L., 2 AA ..... Hondo
Zethraus, R. C., 1 PetE ..... Dallas
Zimmer, J. S., 1 PreVet ..... San Antonio
Zimmerman, J. Y., 1 ME ..... Fort Worth
Zlotnick, A. M., 4 VM, College Station

SUMMARY OF ENROLLMENT, REGULAR SESSION, 1938-39

(Excluding short courses and extension courses)

By States and Foreign Countries

Texas	5503
Alabama	2
Arizona	1
Arkansas	32
California	18
Colorado	1
Connecticut	1
Florida	3
Illinois	10
Indiana	5
Iowa	3
Kansas	3
Kentucky	2
Louisiana	52
Massachusetts	2
Minnesota	6
Mississippi	4
Missouri	11
Montana	3
Nebraska	3
New Hampshire	1
New Jersey	9
New Mexico	4
New York	19
North Carolina	2
North Dakota	4
Ohio	4
Oklahoma	36
Oregon	2
Pennsylvania	5
Rhode Island	1
South Carolina	2
South Dakota	3
Tennessee	4
Utah	1
Virginia	2
Washington, D. C.	6
West Virginia	1
Wisconsin	3
Wyoming	2
Canal Zone	3
China	1
Cuba	2
England	1
Hawaii	2
India	6
Mexico	28
Poland	1
Puerto Rico	27
South America	13
West Indies	2
TOTAL	5862

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SUMMER SESSION OF 1938

c—College
cc—Cotton Classing

Adair, Dorothy, c ..... Bryan
Adams, Benjamin Q., c ..... Temple
Adams, Clifton A., c ..... North Zulch
Adams, Jane, c ..... Bryan
Adams, Joseph B., c ..... Bryan
Adams, J. Carl, c ..... Kirbyville
Adams, Luther L., c ..... North Zulch
Adams, R. Lee, c ..... Mabank
Adams, Robert M., c ..... Honey Grove
Adams, Samuel L., c ..... Temple
Addison, Christine, c ..... College Station
Ainsworth, Ira V., c ..... Lubbock
Albrecht, Hugo C., c ..... Pottsville
Albritton, William H., cc ..... Hamlin
Albritton, Mrs. W. H., cc ..... Hamlin
Aldrich, Clarence H., c ..... Wichita Falls
Aldridge, Edwin E., Jr., c .... San Antonio
Alexander, Alice E., c ..... Hearne
Alexander, Mavis E., c ..... Hearne
Alexander, Ulysses M., c ..... Ft. Worth
Alkire, Kathleen, c ..... Ennis
Allen, Augustus J., c ..... Wills Point
Allen, Benjamin A., c ..... Bryan
Allen, Clifford M., c ..... Amarillo
Allen, James W., c ..... Kaufman
Allen, Mae Belle, c ..... Hearne
Allen, Richard Clark, c ..... Burkburnett
Allison, Conrad J., c ..... Carthage
Allman, John C., c ..... Marlin
Allyn, Fred E., c ..... Trent
Altgelt, Else W., c ..... New Braunfels
Anderson, Charles D., c ..... San Antonio
Anderson, Ernest D., c ..... Edinburg
Anderson, Lucille, c ..... Quemado
Andersen, Mads C., c ..... El Campo
Anderson, Lamar W., c ..... Dallas
Andrews, C. M., c ..... Greenville
Andrus, Washburn Hal, c .. College Station
Appelt, Osborne W., c ..... Gonzales
Arendale, John M., Jr., c ..... Houston
Armstrong, Lowell R., c ..... Sidney
Arnold, Edwin Y., c ..... Greenville
Arnold, Frank T., Jr., c .....
.....Spartanburg, South Carolina
Arsuaga, Alfonsa, c .....
.....San Juan, Puerto Rico
Arthur, T. L., c ..... Lindale
Ashby, Clarence, c ..... Dalhart
Ashton, Estelle A., c ..... College Station
Ashton, Jacqueline, c ..... College Station
Atkins, James Victor, c ..... Mauriceville
Atkins, Lynn C., c ..... Bryan
Atlee, Thomas G., c ..... Kaufman
Austin, Merton E., c ..... Palestine
Avery, James O., c ..... Kenedy
Avnet, Leon Boris, c ..... Dallas
Ayala, Otilio Ralph, c .....Saltillo, Mexico
Aycock, Joe Wilson, c ..... Sweetwater
Ayers, Robert E., c ..... Slaton
Ayers, Victor Leo, c .....
.....Greenville, Mississippi
Ayers, William C., Jr., cc .....Wills Point
Babb, Crawford D., c ..... Seagraves
Badgett, James R., c .....—..... Denison
Bailey, Dorothy Virginia, c .... Ft. Worth
Bailey, John A., c ..... Ft. Worth
Bailey, John Wm., c ..... Sherman
Bain, W. T., c ..... Caldwell
Baker, Alfo L., c ..... Abilene
Baker, Charles Lee, c ..... Houston
Baker, William H., Jr., c ..... Temple
Balfour, Burette H., c ..... College Station
Ball, John, c ..... Uvalde
Ballowe, Chas. Bridges, c ..... Palestine
Bancroft, W. H., c ....Shreveport, Louisiana
Bandy, Bailey W., c ..... Crane
Bannister, John A., c ..... Mt. Vernon
Barber, Ben Archie, c ..... Mansfield
Barber, Winburn L., c ..... Weatherford
Barnes, Annabelle, c ..... Bryan
Barnes, Brunner C., c ..... Dallas
Barnes, Emmet F., c ..... Waelder
Barnes, Mavis, c ..... Waelder
Barnett, Frank Moss, c ..... Hunt
Baroncini, Robert Louis, c ..... Galveston
Barr, Clinal E., c ..... Bonham
Barr, J. Hubert, c ..... Houston
Barrantes, Jose Ramon, c .....
.....Alajuela, Costa Rica
Barrett, Clinton David, c ..... Spur
Barron, Genevieve, c ..... Bryan
Barron, William B., Jr., c ..... Bryan
Barthelow, Adam J., c ..... Houston
Bartlett, Ernest E., c .....George West
Basse, Wallace F., c .....College Station
Batts, Joseph W., Jr., c ..... Bryan
Baugh, Charles R., c ..... Dallas
Baugh, James H., c ..... Temple
Baumann, Edgar Fritz, c ..... Stockdale
Baylor, Raymond V., c ..... College Station
Bean, John Thomas, c ..... Sherman
Beard, James N., c ..... Alpine
Beaman, B. Charles, c ..... Houston
Beasley, Lester, c ..... Omaha
Beasley, William A., Jr., c ..... Greenville
Bebout, Harley, c ..... Beaumont
Beck, Robert Clinton, c ..... Marysville
Becker, Carl H., c ..... Houston
Beckam, Elvah K., c ..... Bryan
Beeson, Leigh C., c ..... Canyon
Belinsky, Joseph, c ..... Bryan
Behrman, James Milton, c ..... Naples
Bell, Charles Henry, c .... College Station
Bell, Harvey C., Jr., c ..... Caldwell
Bender, Chas. Robert, c ..... Houston
Bender, John J., c ..... Houston
Bennett, Clarence Kinsey, c .....
.....Hennessey, Oklahoma
Bennett, Percy B., c ..... Waxahachie
Bennett, Thomas Alton, c ..... Ft. Worth
Benson, J. D., c ..... Bryan
Bentinck, Geo. Fred, c ..... Dallas
Berg, Hatto M., c ..... Fredericksburg
Berger, Raymond John, c ..... Bryan
Bernauer, Milton S., c ..... Port Arthur
Berndt, Gladys P., c ..... Caldwell
Berndt, Marguerite L., c ..... Caldwell
Berryman, Robert L., c ..... Houston
Best, James A., c ..... Kennard
Best, William C., c ..... Ft. Worth
Beville, John R., c ..... Amarillo
Bewley, Frank, c ..... Sour Lake
Bhawnani, D. H., c ..... Bryan
Bielstein, Walter Joe, c ..... Baytown
Biggs, Marshall L., c ..... Ft. Worth
Bills, James Hulen, c ..... Dawson
Bills, William Mayo, c ..... Hubbard
Bilodeau, Emile L. K., c ..... Ft. Worth
Bing, Byron, c .....Oakwood
Bingham, George M., c ..... Normangee
Bird, Virgil W., c ..... Ft. Worth
Birdsong, Searcy, Jr., c ..... Longview
Birnbaum, Joe, c ..... San Antonio
Biron, J. N., c ..... Galveston

Bishop, James Benton, c ..... Georgetown
Bishop, Jay Phillip, c ..... Houston
Bistrow, Elvin Israel, c ..... Houston
Black, Dale H., c ..... Weimar
Black, Jean J., c ..... College Station
Black, Mary Ann, c ..... Bryan
Blair, Philip Joseph, c ..... College Station
Blake, Robt. H., c ..... Hearne
Blakeney, Thomas Gill, c .... College Station
Bland, Clarence J., c ..... Houston
Blankinship, Dolman Archie, c ..... Stephenville
Blankinship, Thurman Claud, c ..... Stephenville
Blanton, Joseph F., c ..... Houston
Blanton, Louis T., c ..... Emory
Blessington, H. L., c .. Jennings, Louisiana
Blohm, George Lee, c ..... Houston
Blume, Willis Lee, c ..... Bryan
Bobbitt, Bryan W., c ..... College Station
Bobbitt, E. H., c ..... College Station
Bocquet, Philip Edmund, c ..... Beeville
Bolin, Reid Wayne, c ..... Newgulf
Bond, Edmond Van, c ..... Victoria
Boney, W. A., Jr., c ..... Iola
Bonnette, Ibrey Thomas, c ..... Beaumont
Boone, Murray Ellis, c ..... Navasota
Borcherding, Lloyd James, cc ..... Hooks
Borders, William Ernest, c ..... Ft. Worth
Bostick, Byron Leo, c ..... Moody
Boswell, H. B., c ..... Austin
Boswell, Robert P., c ..... Kenedy
Bouchard, Richard Allen, c ..... Austin
Bowman, Howard L., c ..... Cherokee
Bowman, Rolland John, c .... San Antonio
Bowman, Talbert F., c ..Foreman, Arkansas
Box, Roy Alton, c ..... Seagoville
Boyce, Donald M., c ..... Dallas
Boyd, Marshall M., c ..... Calvert
Boyd, William K., c ..... Amarillo
Bracher, Clint W., c ..... Port Lavaca
Bradberry, Carl B., c ..... Cleburne
Braddy, William Lloyd, c ..... Ft. Worth
Bradley, Geo. V., c ..... Dublin
Bradley, James C., c ..... Sweetwater
Bradley, John P., c ..... San Antonio
Bradshaw, Donald K., c ..... Houston
Brandes, Leslie Ernst, c ..... Weimar
Brands, John T., c ..... Amarillo
Bransom, George Edward, c ..... Burleson
Braswell, D. Ernest, c ..... Dallas
Bratton, Alvis Truman, c ..... Miles
Braunig, Hubert Edward, Jr., c ..... Beaumont
Bravenec, Edward E., c ..... Somerville
Brazelton, William B., c ..... Waco
Braziel, William Marshall, c ..Gladewater
Brewer, Betty, c ..... Bryan
Brewer, Loy E., c ..... Nacogdoches
Bridger, John Cash, c ..... State College, Mississippi
Brimberry, Will O., c ..... Grapeland
Bristley, Leon P., c ..... Liberty
Britt, Adolphus R., c ..... Ranger
Brock, Choyce G., c ..... Garland
Brock, Gunther A., c ..... Dallas
Brooks, Bernard B., c ..... Iber
Brooks, Richard H., c ..... Waco
Brooks, Walker A., c ..... Corpus Christi
Brooks, Willard C., c ..... Prairie Grove, Arkansas
Browder, Lowell Cosby, c .....Springtown
Brown, David Louis, c ..... Houston
Brown, Ewing Ernest, c .. College Station
Brown, Ethelyne Lee, c ..... Bryan
Brown, Joseph C., Jr., c ..... Hartley
Brown, James Frank, c ..... Whitney
Brown, John H., c ..... Corsicana
Brown, Jesse Lee, c ..... Santa Anna
Brown, Loy Gene, c .....Ireland
Brown, Robert Allen, c ..... Bishop
Brown, Thomas M., c ..... Houston
Brown, Velma, c ..... Ireland
Browning, Ben Marvin, c ..... Brownsboro
Browning, James Marvin, c ..... Lolita
Bruce, Paul H., c .....Gladewater
Bryant, James Harry, c .....Corsicana
Bryant, Myron Douglas, c ..... Alba
Bryson, Bernard Glenn, c .....Shreveport, Louisiana
Buchanan, Mrs. Jno. S., c ..... Bryan
Buchanan, Travis V., c ..... Dublin
Buckley, F. A., c ..... Matador
Buckley, U. M., c ..... Bryan
Buie, Elmer Louis, c ..... James
Buie, Tollie R., c ..... Longview
Bukowski, Ted John, c ..... Bryan
Bullock, Quentin Smith, c ..... Bryan
Bargoon, Geo. B., c ..... Denton
Burk, Donnie G., c ..... Rochelle
Burk, Lester Curtis, c ..... Rotan
Burkett, Albert LeRoy, c ....College Station
Burleson, Larry Lee, c ..... Mart
Burley, Wallace D., c ..... College Station
Burnett, Erwin F., c ..... Hempstead
Burtis, Pat T., c ..... Bryan
Burtis, Ruth, c ..... Bryan
Burtner, B. Parrish, c ..... Roxton
Burton, Bill, c ..... El Paso
Burton, Felix J., c .....Carrizo Springs
Burts, Johnnie Ray, c ..... North Zulch
Bush, Forrest Woodrow, c ..... Houston
Butler, Jerry H., c ..... Freeport
Butler, Robinson P., c ..... Austin
Butler, Wilburn Jake, c ..... Greenville
Byrd, Edwin Leslie, c ..... Houston
Byrd, Harvet, c ..... College Station
Byrd, Roy Ward, c ..... Waco
Cadenhead, Charles Lewis, c ..... Midway
Cairo, Louis Joseph, c ..... Rio Grande
Calkins, Charles R., c ....Newbern, Alabama
Callaway, Stephen J., c ..... Mt. Calm
Callender, Catherine V., c....College Station
Calvert, Hugh White, c ..... Brady
Camp, Frank Adair, c ..... Blum
Camp, Walter H., c ..... Wellington
Campbell, Gordon Miller, c .....Tyler
Campbell, Joe Haskell, c .....Midland
Campbell, Joe Riley, c .....Hillsboro
Campbell, Peggy, c .....College Station
Campbell, William Gibbs, c .... San Antonio
Campion, Robert M., Jr., c ..... Dallas
Canfil, Lloyd W., c ..... Sweetwater
Cannan, Ben Davis, Jr., c ..... Angleton
Canterbury, Samuel Luther, c .....Kilgore
Cantini, Francis Oscar, c ..... Galveston
Caraway, Vestal Henry, c ..... Houston
Card, Leland Poythress, c ..... Houston
Cariker, George Earl, c ..... Gary
Carll, E. Wm., c ..... Waco
Carpenter, S. E., c ..... Cumby
Carrington, Claribel, c ..... Bryan
Carroll, Howard Lee, c ..... Palestine
Carroll, Robert E., c ..... Abilene
Carroll, Thelston Burton, c ..... Bryan
Carruth, Lester Gordon, c ..... Denton
Carson, John Lee, c ..... Dallas
Carson, Ray, Jr. c ..... Holliday
Carter, Frank Stephen, c .... Wichita Falls
Carter, Hugo C., c ..... Luling
Carter, Herman M., c ..... Sterling City
Carter, Preston M., c ..... Texarkana
Carter, Richard W., c .... Omaha, Nebraska
Caruthers, Robert Eldon, c ..... Moody

Carver, Hubert E., c ..... Bryan
Casad, Humboldt, Jr., c ..... Canutillo
Casey, Joseph Patrick, Jr., c ....Ft. Worth
Cash, Lawson Clay, c ..... Pioneer
Cashen, James, c ..... Batson
Castleberry, George William, c....Longview
Cates, Shirley L., c ..... Amarillo
Caughran, Morgan Brice, c ..... Munday
Cazell, Elizabeth Cochrane (Mrs.), c .....
.....Bryan
Cazell, Gabriel F., c ..... Bryan
Cazell, Margaret Nan, c .....Bryan
Chambers, Kenneth, c ..... McKinney
Chambers, Macolm P., c ..... McKinney
Chambless, Rodney F., c ..... Madisonville
Chaney, Jesse Geralds, c ..... Bryan
Chaney, Preston Earl, c ..... Beaumont
Chang, Tah, c ..... Nantung, China
Chapman, Dwight L., c ..... Temple
Chapman, Elton G., c ..... Avoca
Cherry, Elton Karl, c ..... El Paso
Cherry, Tom D., c ..... College Station
Childers, Acie Bill, c ..... Mart
Childs, Leo Franklin, c .....College Station
Christian, Lavelle J., c ..... McLean
Clark, Austin W., c ..... Dallas
Clark, Fred W., Jr., c ..... Van Horn
Clark, Jack Whalen, c ..... San Benito
Clark, Raymond J., c ..... Dallas
Clarke, Frederick, c ..... Coleman
Clarke, Wendell Lee, c ..... Waco
Clemens, Frank C. II, c ..... Houston
Clements, John Felix, c ..... Crowley
Clements, Roger Bentley, c .. Goldthwaite
Clepp, J. H., c ..... Waco
Cline, Edbert Clayton, c ..... Dallas
Cloud, Bruce Benjamin, c .... San Antonio
Cloud, Mildred, c ..... Bryan
Cloud, Roy Roosevelt, c ..... Kerens
Cloudt, Walter O., Jr., c ..... Rocksprings
Clutter, Joe Paul, c ..... College Station
Cobb, Ruth Wilcox, c ..... Bryan
Cobb, Ralph York, c ..... Bryan
Coble, John Porter, c .... College Station
Cockrell, Joseph E., c ..... Dallas
Coe, Herbert Eugene, c .. Tupelo, Arkansas
Cofer, Sara Allen, c ..... College Station
Coffey, Alfred Edwin, c ..... Dallas
Coker, Autis Wynne, c ..... Troup
Colburn, William Lee, c ..... Bryan
Cole, Manuel H., c ..... North Zulch
Cole, Sunshine Alice, c ..... Bryan
Collins, Robt. E., c ..... Dallas
Collins, Thomas F., c ..... Garden City
Collins, William A., Jr., c ..... Crockett
Colquitt, Rawlins M., Jr., c ..... Dallas
Colson, James Allison, c .... College Station
Colson, William Nolan, c ..... Bryan
Compton, W. Z., c ..... Comanche
Connally, C., Jr., c ..... Waco
Connor, Charles Harold, c .... Daingerfield
Connor, Herschel W., c ..... Dallas
Connor, J. E., c ..... Cumby
Connor, James Michael, c ..... Midland
Contella, Carl Joseph, c ..... Bryan
Cook, Erma Irene, c ..... Magnolia
Copeland, James D., c .....
.....Roswell, New Mexico
Corrin, William G., c ..... Ft. Worth
Corry, Willard Ellis, c ..... Bryan
Cotton, Albert Dale, c ..... Temple
Courtney, Frank King, c ..... Jonesboro
Courtney, Rose Marie, c ..... Jonesboro
Coussoulis, Peter A., c ..... Laredo
Cowan, Thomas Elliott, c ..... Pecos
Cowart, Bailey Valentine, c ..... Amarillo
Cowley, Walter Raymond, c ..... Chico
Cox, Dewitt C., c ..... Tuscola
Cox, Earl Harold, c ..... Raymondville
Cox, Elmer O., c ..... Houston
Cox, Geo. B., c ..... Denton
Cox, Joe Howard, c ..... Waco
Cox, Maurice B., c ....Stillwater, Oklahoma
Cox, Ross Earl, c ..... Brownwood
Cox, Thomas M., c ..... Palmer
Cox, Valton V., c ..... Ralls
Cox, Wilburn Clyde, c ..... Waco
Coyle, E F., c ..... College Station
Craddock, Daniel Everett, c ..... Jewett
Craig, Jack Wilson, c ..... Houston
Crawford, William M., c ..... Navasota
Crews, Guy M., c ..... Alvord
Crews, Logan Walter, c ..... Lindale
Crook, Geo. Melvin, c ..... Nixon
Cross, Louis D., c ..... Calvert
Crouch, James W., c ..... Roanoke
Crouch, Leroy W., c ..... Roanoke
Crowell, John W., c ..... Arlington
Cullum, Felder W., c ..... Dallas
Cummer, Robert Edgar, c ..... Houston
Cummer, William F., c ..... Houston
Cummings, Leslie L., c ..... Bryan
Cunningham, Ida Mae, c ..... Navasota
Cunningham, Thomas H., c ..Whitewright
Curlee, Conrad J., c ..... Houston
Curlee, Mildred F., c ..... Personville
Curlee, Onys T., c ..... Personville
Currie, Dan A., cc .....Atmore, Alabama
Curry, Fred B., c ..... Orange Grove
Cutcher, H. E., Jr., c ..... Lockhart
Czarowitz, Philmore H., c ..... Bryan
Dale, John T., c ..... Wichita Falls
Danver, William E., c ..... Amarillo
Darby, E. E., c ..... Caldwell
Darnell, Frances L., c ..... Bryan
Darst, Joseph F., c ..... Terrell
Dashoff, Abe D., c ..... Bryan
Davidson, Duval A., Jr., c .... Nacogdoches
Davidson, Frank N., c ..... Eagle Lake
Davidson, Haughton C., c .....
.....Vienna, Louisiana
Davis, Bruce A., c ..... San Antonio
Davis, Berry F., c ..... Dallas
Davis, Eldridge Eugene, c .... Port Arthur
Davis, James B., c ..... Mt. Pleasant
Davis, Pearl K., c ..... Bryan
Davis, Ruby, c ..... Bryan
Davis, Robert S., c ..... Austin
Davis, Thomas B., c ..... Gainesville
Davis, Tommy C., c ..... Ft. Worth
Davis, William R., c ..... San Antonio
Day, James Earl, c ..... Dalhart
Dean, John D., c ..... Kaufman
Dean, Jesse J., c ..... Houston
Decher, Arthur C., Jr., c .....
.....Shreveport, Louisiana
Dees, Billy G., c ..... Kaufman
Demke, Donald D., c ..... Stephenville
Denena, Minnie, c ..... Bryan
Dengler, Felton S., Jr., c ..... Port Neches
Denny, William F., c .....
.....Shreveport, Louisiana
Denton, Guy O., c ..... Bryan
Denton, Royal L., c ..... Bryan
Denton, Velpeau C., c .... Pahokee, Florida
Deodati, Joseph B., c ..... San Antonio
Derrick, Hugh A., c ..... San Antonio
Devine, Jean F., c ..... Pharr
Di, Fu Yu, c ..... Taichang, China
Dickerson, William F., c ..... Waco
Dickson, Robert E., c ..... Mart
Dillingham, O. D., c ..... Abilene
Dismukes, Isaac B., c ..... Rocksprings
Dixon, Norman E., c ..... Houston

Dodgen, Howard K., c ..... Temple
Dominy, Charles B., Jr., c ..... Pennington
Dominy, William Winfield, c ..... Temple
Dooley, Jimmie, c .....Gonzales
Donnell, Chas. E., c ..... Graham
Dooley, Will D., c ..... Bryan
Dopslauf, Donald L., c ..... Houston
Doran, Jack K., c ..... Midland
Dorman, Herschel D., c ..... Orange
Doss, Robert L., c ..... Whitewright
Dougherty, Chas. F., c .... Tulsa, Oklahoma
Douglass, Ralph J., c ..... Dallas
Dowell, Aubrey C., c ..... North Zulch
Downs, John W., c ..... Waco
Drennan, Weldon B., c ..... Cleburne
Duckworth, William H., c ..... Caldwell
Duesenberg, Denny D., c ..... Bryan
Duhon, Lamar M., Jr., c ..... Victoria
Duncan, Charles P., c ..... Ennis
Duncan, Glenn E., c ..... Houston
Duncan, John F., c ..... Houston
Duncan, Mack H., c ..... Houston
Duncan, Wayne O., c ..... Troup
Dunn, J. B., c ..... Bryan
Dupre, A. J. c ..... Eagle Pass
Durham, Robert Wayne, c ..... Bryan
Duvall, Horace J., cc ..... Memphis
Dwyer, Sam J., c ..... El Paso
Dye, Roy L., Jr., c ..... Claude
Dyke, Harold H., c ..... San Antonio
Easley, Gregg P., c ..... Caldwell
Eaves, Chas. C., c ..... Lubbock
Echols, Woodrow H., c ..... Barstow
Eckert, Richard P., c ..... Mason
Edds, George T., c ..... College Station
Edds, Vivian B., c ..... College Station
Eden, Mildred, c ..... Bryan
Edens, Lawrence L., c ..... Beckville
Edgar, Zeddie C., c ..... Stephenville
Edge, Gordon, c ..... Bryan
Edge, John E., c ..... Bryan
Edmondson, Thomas L., c ..... San Saba
Edwards, Stacy W., c ..... Miles
Elder, Gerald P., c ..... Greenville
Ellis, H. B., c ..... Omaha
Ellis, John C., c ..... Phoenix, Arizona
Ellis, John M., c ..... Mt. Pleasant
Ellis, Maxine, c ..... Caldwell
Ellzey, John G., c ..... Cuero
Elrod, Horace W., c ..... Houston
Elston, Joe H., c .... Elm Grove, Louisiana
Elsik, Hubert J., c ..... Snook
Elwell, Richard C., c ..... San Angelo
Endres, Meinrad J., c ..... Muenster
Engdahl, J. Leroy, c ..... Rochelle
Edge, Clifferd O., c ..... Bryan
Enge, Percy C., c ..... Bryan
Ernst, Hugo H., c ..... Poteet
Erwin, Cyral P., c ..... College Station
Erwin, Hugh M., c ..... Dallas
Eskridge, Merry Beth, c ..... Marlin
Eudaly, Ernest R., c ..... Bryan
Evans, Francis L., c ..... Seymour
Evans, Harold T., c ..... Dallas
Evans, Joseph G., c ..... Port Arthur
Evans, Jesse W., c ..... Handley
Evers, Richard E., c ..... Lufkin
Evridge, Joe, c ..... Comanche
Evridge, Rufus B., c ..... Comanche
Ewing, Hunter H., c ..... Mission
Ewing, Ned P., c ..... McAllen
Fagan, Frank M., Jr., c .. Grand Prairie
Fallwell, John, Jr., c ..... Dallas
Fallwell, Wm. J., c ..... Dallas
Fant, C. B., Jr., c ..... Linden
Farrow, Morris, c ..... Linden
Faubus, Alfred O., c ..... Waco
Faulk, Melvin W., c ..... Ft. Worth
Felts, Wallace M., c ..... Ft. Worth
Fennell, William S., c ..... Gilmer
Ferguson, Chauncey D., Jr., c .....
.....Leesville, Louisiana
Ferguson, Paul L., c ..... Bryan
Ferguson, Virginia L., c ..... Bryan
Ferguson, Thomas M., c .... College Station
Ffrench, Lawrence A., c .. Tampico, Mexico
Field, John K., c ..... Pearsall
Fielder, Cyrus, c ..... Cason
Finlay, Albert E., c ..... Bryan
Fischer, Walter E., c ..... Marlin
Fisher, LaVerne T., c ..... Bellville
Fisherman, Frank, c ..... Big Spring
Fitts, Grady H., c ..... Linden
Fittz, Oline K., c ..... Shelbyville
Fitzgerald, Mrs. H. L., c ..... Caldwell
Flache, Truett W., c ..... Brownfield
Fleetwood, Madeline R., c ..... Hearne
Fleming, David W., c ..... College Station
Floore, Edgar L., c ..... Austin
Flores, Arthur, cc .... San Diego, California
Floyd, Joe T., c ..... Lufkin
Foote, Daniel A., c ..... San Antonio
Ford, James A., c ..... San Antonio
Forehand, Thomas L., c ..... Houston
Fortson, Tom E., c ..... Houston
Foster, John C., c ..... San Antonio
Foster, Thomas G., c ..... Pecan Gap
Foster, W. C., c ..... Tulia
Fouts, James F., c ..... El Paso
Fox, James C., c ..... Oglesby
Fox, Jesse E., c ..... Katy
Fox, Marshal D., c ..... Brownwood
Francis, Donald H., c ..... Marlin
Franklin, Florence, c ..... Bryan
Franklin, George E., c ..... Bryan
Franklin, John D., Jr., c ..... Blackwell
Frazer, Shelby V., c ..... Wichita Falls
Frazier, Burton R., c ..... Dallas
Freeman, L. E., c ..... Houston
French, Anna Mae, c ..... College Station
French, Edwin C., c ..... El Paso
Frobese, Joe C., c ..... Tyler
Fry, Gerald J., c ..... Bryan
Fryer, John D., c ..... Fairfield
Fuchs, Carl, c ..... Caldwell
Fugate, Jack L., c ..... Houston
Fulton, George W., c ..... Waxahachie
Funderbugh, J. W., c ..... McKinney
Gabrysch, Claude, c ..... Falls City
Gallagher, James J., c ..... Denison
Galloway, Hubert O., c ..... Wharton
Galloway, Jean Anne, c ..... Port Arthur
Galloway, Wm. H., c ..... Edinburg
Gammon, Wm. F., c ..... College Station
Gandy, Charles W., c ..... Bryan
Gandy, Woodrow W., c .... College Station
Garcia, Hector M., c ..... Brownsville
Gardner, Woodrow W., c ..... La Pryor
Garner, Jack W., c ..... Houston
Garrett, Samuel E., c ..... Kerens
Garrison, Roger W., c ..... Spur
Gary, Arthur E., c ..... San Marcos
Gary, Travis L., c ..... Jacksonville
Gary, Mrs. Travis L., c .... Jacksonville
Gay, George H., c ..... Houston
Gearhart, Bill, c ..... Marfa
Gebert, Myrtle, c ..... Schulenburg
Gerlach, August Edwin, c ..... Livingston
Gerloff, John L., c ..... Clifton
Gerloff, Otto A., c ..... Moody
Geyer, Glenn E., c ..... Bryan
Gibbs, Allegra, c ..... Mabank
Gibbs, D. W., c ..... Mabank
Gibbs, Fred C., c ..... Madisonville

Gibbs, Leon W., c ..... Ft. Worth
Gibson, James B., c ..... Trinity
Gibson, John O., Jr., c ..... San Antonio
Giles, Dorris D., c ..... College Station
Gililland, William J., c ..... Hereford
Gillespie, A. J., c ..... Alleyton
Gillette, Roy W., c ..... Columbus
Gissler, Jack E., c ..... Dallas
Gist, Henry Louis, c ..... Mt. Vernon
Glasgow, Robert B., c .... College Station
Glass, Rebecca Carolyn, c ..... Bryan
Glazener, Verne R., c ..... Nacogdoches
Glenn, Gilbert W., c ..... College Station
Gober, Lonzo, c ..... Throckmorton
Godfrey, Curtis L., c ..... Naples
Goldberg, Louis C., c ..... Waco
Goldman, Pressley F., cc ..... Houston
Goodloe, Harry F., c ..... Dallas
Goodrich, Robert H., c ..... Brownsville
Goodrum, James Basil, c ..... Colmesneil
Goodstein, Alvin, c ..... Dallas
Gorzycki, George C., c .... College Station
Gorzycki, Louis J., c ..... College Station
Gottlieb, Sidney H., c ..... Corsicana
Gough, Herbert A., c .... Matehuala, Mexico
Gourley, Wm. M., c ..... Bishop
Graham, Dorothy, c ..... Wills Point
Graham, Dan W., c ..... Wills Point
Graham, John, c ..... College Station
Graham, Samuel S., c ..... Huntsville
Graham, Terrell, c ..... Megargel
Graham, William A., c ..... Guion
Granfors, William H., c ..... San Antonio
Granger, Dick B., c ..... Dallas
Grantham, John R., Jr., c ..... McGregor
Graves, Wm. Doyle, c ..... Breckenridge
Gray, Ollie H., c ..... College Station
Gray, Robert M., c ..... Killeen
Gray, Willard F., c ..... Lubbock
Grazier, Philip B., c ..... Temple
Gready, Lawrence S., c ..... Wills Point
Green, Clarence L., c ..... Thorndale
Green, Carl V., c ..... Hope, Arkansas
Green, James Harold, c ..... Paxton
Greene, Charles B., c ..... Dallas
Greening, Vincent E., c .... College Station
Greenlee, Homer, c ..... Comanche
Greenslade, M. E., cc ..... Kaufman
Gregg, Cecil M., c ..... Redwater
Gregg, Paul, c ..... College Station
Gregg, Geo. Tho., c ..... Denison
Gregg, Raymond L., c ..... Bryan
Gregory, Lyngle K., c ..... Midlothian
Gremmel, Fred, c ..... Mineral
Gresham, H. G., c ..... Centerville
Griffin, Levi H., c ..... Hooks
Griffith, Ben B., c ..... Sherman
Grimmer, George G., c ..... Dallas
Grisham, W. P., c ..... Bandera
Grissom, Thomas C., c ..... Richards
Grohe, F. Wm., c ..... Bryan
Grote, James F., c ..... Mason
Grover, Lewis M., c ..... Three Rivers
Groulx, Bob Burr, c ..... Harlingen
Guill, A. W., c ..... Memphis
Gump, James F., c ..... Dallas
Gutknecht, Albert J., c ..... Bryan
Habermann, Wilfred F., c .... San Antonio
Hackett, Robert E., c ..... Raymondville
Haenel, August W., Jr., c ..... Austin
Haertig, Wm. M., c ..... Woodsboro
Haggar, Charles, c ..... Sioux Falls, S. D.
Hahn, Albert, c ..... Columbus
Hahn, Henry C., c ..... Brenham
Haile, Johnie M., c ..... Corpus Christi
Halbrooks, Lloyd V., c ..... Bryan
Hale, Billy B., c ..... Commerce
Haley, R., c ..... Shelbyville
Hall, Chas. A., c ..... Houston
Hall, Dan, c ..... Bryan
Hall, Joseph H., c ..... Willis
Hall, Jack L., c ..... Tioga
Hall, James R., c ..... Emory
Hall, John W., Jr., c ..... Bryan
Hall, Lyman H., c ..... Amarillo
Hall, Robert C., c ..... Electra
Hall, Thomas G., c ..... Dallas
Hall, Thomas K., c ..... Bryan
Hallman, M. V., c ..... Buckholts
Halsell, Harry H., c ..... Lubbock
Haltom, George H., c ..... Grapeland
Hambrick, James H., Jr., c ..... Houston
Hambrick, Lester N., c .... College Station
Hamilton, Edward A., c ..... Jasper
Hamilton, Orville, c ..... Dallas
Hamilton, Oliver W., c ..... Star
Hamilton, Sam, c ..... Ft. Worth
Hamilton, Wm. A., Jr., c ..... Dallas
Hammack, Doyle F., c ..... Lehman
Hammons, Miller, Jr., c ..... Donna
Hamorszky, K. R., c ..... College Station
Hanby, John L., c ..... Mesquite
Hander, Theo. W., c ..... Belton
Hanna, George T., c ..... Brownsville
Hanna, Parker D., c .... College Station
Hanna, Virginia Adele, c .... College Station
Hanover, Billie D., c ..... Wheelock
Hanover, Joe G., c ..... Wheelock
Hanrahan, William E., c ..... Okmulgee, Oklahoma
Hardee, Peck, Jr., c ..... Mart
Hardison, Tom A., c ..... Vernon
Hardy, Edwin D., cc ..... New Waverly
Harkrider, John H., c ..... Fulbright
Harral, Philip W., c ..... San Antonio
Harris, B. B., c ..... Harrold
Harris, Earl L., c ..... Navasota
Harris, John J., c ..... San Antonio
Harris, James P., c ..... Dallas
Harrison, Austin, c ..... Brookshire
Harrison, Drew W., c ..... College Station
Harrison, Guy F., c ..... Abilene
Harrison, Neil B., c ..... Gilmer
Harshey, John R., c ..... Houston
Hartt, Dixie D., c ..... Rusk
Harvey, Frank B., cc ..... Wichita Falls
Harvill, V. A., c ..... Robstown
Harvin, Albert K., c ..... Nacogdoches
Harvill, V. A., c ..... Robstown
Harvin, Albert K., c ..... Nacogdoches
Haseman, John D., c ..... Dallas
Hass, Roland R., c ..... Mission
Hassell, J. Fletcher, c ..... Pioneer
Hatchett, Charles T., c ..... Lamesa
Hatfield, Sadie, c ..... College Station
Hatka, Otis R., c ..... Granger
Hawkins, Wilbur W., c ..... Dallas
Hayes, Raymond L., c ..... Hearne
Hays, Jack R., c ..... Brady
Hayward, John G., c ..... Gillette, N. J.
Head, Robert G., cc ..... Walnut Springs
Heartsill, Hedrick W., c ..... Weatherford
Heath, James A., c ..... Henderson
Heller, William L., c ..... Alvin
Henderson, Mary Elizabeth, c .... Calvert
Hendricks, John A., c ..... Temple
Hendrix, Ernest E., c ..... Dallas
Henry, Marvin M., c ..... Port Arthur
Heppard, Glenn R., c ..... Port Arthur
Herder, Henry, c ..... Weimar
Herring, Henry P., c ..... Clint
Herring, Raymond K., c ..... Vernon
Hertner, Henry E., c ..... Amarillo
Herzing, Ernest A., c ..... Del Rio

Hess, Edd C., c ..... Mt. Pleasant
Hicks, Laura M., c ..... Bryan
Hicks, Truman R., c ..... Stephenville
Hicks, Wm. Edgar, c ..... Tyler
Hiebeler, Otis J., c ..... Houston
Higdon, Hoke, c ..... College Station
Higginbotham, James P., c ..... Mabank
Higgins, Theodore P., c ..... San Antonio
Higgins, Walter S., c ..... Victoria
Hilburn, Ben B., c ..... Dublin
Hilburn, Paul W., c ..... Granger
Hill, David C., c ..... Hallettsville
Hill, Gordon C., c ..... Cleveland
Hill, Homer S., c ..... Winnsboro
Hilliard, Homan A., c ..... Caldwell
Hillier, Charles R., c ..... Bryan
Hiltpold, Herbert W., c ..... Bay City
Hingle, Arthur T., c ..... San Antonio
Hiranandani, A. D., c ..... Bombay, India
Hix, Richard M., c ..... Hearne
Hobert, Chancey W., c ..... Munday
Hodge, Dexter L., c ..... Pledger
Hodges, Jimmie C., c ..... Ft. Worth
Hodges, J. H., c ..... Silsbee
Hodges, Travis V., c ..... El Dorado, Arkansas
Hoefle, Malcolm B., c ..... Brazoria
Hogue, Allah J., c ..... Paducah
Hoke, John W., c ..... Shiro
Holcomb, John W., Jr., c ..... Meridian
Holick, Donald H., c ..... Dallas
Holland, Mary Anne, c ..... Harlingen
Holland, William M., c ..... Abbott
Holleman, Theo. R., c ..... Sandia
Hollingshead, Margaret E., c ..... Bryan
Hollingsworth, James F., c ..... Sanger
Holloway, Jack W., c ..... La Grange
Holmes, Billy D., c ..... Bryan
Holmes, Elizabeth c ..... Bryan
Holmes, Laurence R., c ..... Harlingen
Holmes, Robt. W., c ..... Silsbee
Holt, William E., c ..... Longview
Holzmann, C. B. (Mrs.), c ..... Bryan
Honey, Norwood M., c ..... Mission
Hood, Morris W., c ..... Lufkin
Hoofer, William C., c ..... Brownwood
Hooton, Morris E., c ..... Daingerfield
Hopmann, U. C., c ..... Beasley
Hornak, Vladimer J., c .... College Station
Hornsby, Rogers, Jr., c ..... Denison
Horton, Barton G., c ..... College Station
Horton, Ben A., c ..... College Station
Horton, Charles M., c ..... Alexandria, Louisiana
Hovorak, Ludwig M., c ..... Caldwell
Howard, Fred G., c ..... Pearsall
Howard, H. G., Jr., c ..... Pleasanton
Howard, Johnny B., c ..... Houston
Howard, Joe N., c ..... College Station
Howard, John P., c ..... Lubbock
Howe, Worth W., c ..... De Leon
Howell, A. I., c ..... Thrall
Howell, Horace J., Jr., c ..... Gonzales
Hrdlicka, Edw. B., c ..... Bryan
Huckabee, Cleo O., c ..... Gatesville
Huckeba, William C., c ..... Naples
Hudson, Jack D., c ..... Quitman
Huebel, John, c ..... Glidden
Huebner, George L., c ..... Lane City
Huebner, Marcus T., c ..... Lane City
Huffaker, John, c ..... San Antonio
Hughes, Charles R., c ..... Long Branch
Hughes, Eugene, c ..... Orange
Hughes, Lynn B., c ..... Waskom
Hughes, Roy E., c ..... Gainesville
Hughes, Wm. L., c ..... Arlington
Hughey, Edward D., Jr., c ..... Navasota
Hughey, Mina Rea, c ..... Navasota
Hugins, J. Donald, c ..... Bryan
Hulsey, Burl B., c ..... Forney
Humphrey, Mabern D., c ..... McLeod
Humphries, W. W., c ..... Mart
Hundley, James J., c ..... Dallas
Hunnicut, William R., c ..... Bryan
Hunt, James R., c ..... Houston
Hunter, Allen D., c ..... Bryan
Hurd, Paul J., c ..... Brady
Hurley, Burton Rex, c ..... Pottsville
Hurley, Fredda, c ..... New Baden
Hurt, Roy M., c ..... Kingsville
Hutchings, George S., c ..... De Wait
Hutchins, Philip M., c ..... Ysleta
Hutchison, John E., Jr., c .... Missouri City
Igo, Harry C., c ..... Clarksville
Imler, Norman O., c ..... College Station
Ingram, Howard E., c ..... San Antonio
Irby, Kenneth M., c ..... New Boston
Irwin, Paul F., c ..... Ft. Worth
Isbell, Jack M., c ..... Wichita Falls
Jackson, Aubrey L., c ..... New London
Jackson, Alfred S., c ..... Throckmorton
Jackson, Chester W., c ..... Buna
Jackson, Harold K., c ..... Dallas
Jackson, Roger W., c ..... Jacksonville
Jacobs, Lemuel L., c ..... Dallas
Jacoby, Jerry J., c ..... Houston
Jacoby, Pete W., c ..... Menard
James, Cecil P., c ..... Waco
James, James W., Jr., c ..... Bryan
James, Lee E., c ..... College Station
Jameson, Aubrey M., c ..... Breckenridge
Jameson, Henry E., c ..... Newark, N. J.
Jarratt, Dennis Y., c ..... Red Oak
Jenkins, Ernest M., c ..... Hempstead
Jenkins, James W., c ..... Dallas
Jennings, Chas. B., c ..... Fredonia
Johns, Herbert T., c ..... Floresville
Johnson, Clint G., c ..... Beaumont
Johnson, Charles M., c ..... Amarillo
Johnson, Chas. M., c ..... Paris
Johnson, Edward, c ..... Houston
Johnson, Forrest L., c ..... Mt. Vernon
Johnson, Lem E., c ..... Sonora
Johnson, Nick A., c ..... McGregor
Johnson, Ross E., Jr., c ..... Commerce
Johnson, Wilbur G., c ..... Bryan
Johnston, Cecil A., c ..... Victoria
Johnston, Carl C., c ..... College Station
Jones, Alexander C., c ..... Galveston
Jones, Brandon F., c ..... San Antonio
Jones, Billie L., c ..... Ben Wheeler
Jones, Carrol E., c ..... Olton
Jones, Cassity J., c ..... Long Branch
Jones, Clayton V., c ..... Blanco
Jones, Frank B., c ..... Tuleta
Jones, George E., c ..... Iowa Park
Jones, Herschel V., c ..... College Station
Jones, Jack G., c ..... Spur
Jones, James T., c ..... Brownwood
Jones, Mortimer D., c ..... Ft. Worth
Jones, Olen J., c ..... Irving
Jones, Paul V., c ..... Amarillo
Jones, Virgil B., c ..... Sweetwater
Jones, Victor T., c ..... Rosenberg
Jones, Walter T., c ..... Austin
Jones, Wm. Taylor, c ..... Coleman
Jordan, Robt. F., c ..... Apple Springs
Jordan, Wm., M., c ..... Abbott
Jorns, John W., c ..... Houston
Joseph, Simon, c .... Blytheville, Arkansas
Josey, James C., c ..... Wharton
Junghans, William H., Jr., c ..... Waco
Jurcak, Louis, c ..... Burlington
Kaden, James H., c ..... Gainesville

Kallina, Henry E., c ..... Victoria
Karper, Edward A., c ..... College Station
Karper, Robert E., c ..... College Station
Kathcart, Rex, c ..... Calvert
Kauffman, Arthur L., c .... College Station
Kay, Elwin M., c ..... Tyler
Kay, H. D., Jr., c ..... San Gabriel
Kay, James T., Jr., c ..... Tyler
Kay, Jack W., c ..... Mt. Pleasant
Keeling, Lela Haines, c ..... Bryan
Keeney, Ila, c ..... Hico
Keeter, John J., c ..... Throckmorton
Keller, Alfred E., c ..... Bryan
Kelling, Henry, c ..... Crawford
Kelling, Henry, c ..... Crawford
Kelly, Tom, Jr., c ..... Reagan
Kelt, George A., c ..... Chatfield
Kemp, J. Park, c ..... Ballinger
Kendall, Everett H., c ..... Houston
Kercheville, James P., c ..... Kyle
Kerr, R. T., c ..... Donie
Kershaw, George C., c ..... Dallas
Kestler, Valeigh, c ..... Calvert
Key, Jesse T., c ..... Corsicana
Kidd, L. M., c ..... Garland
Kiechle, Frederick, c ..... Ballinger
Killough, David G., c ..... College Station
King, Arthur, c ..... Warren, Arizona
King, C. M., Jr., c ..... Ft. Worth
King, Jack L., c ..... Beaumont
King, O. B., c ..... Naples
Kirby, T. C., c ..... Bryan
Kirkham, Wayne W., c .. Elizabeth, Indiana
Kirkpatrick, Geneva, c ..... Easterly
Kishi, Yoichi, c ..... Houston
Kitley, Donald R., c ..... Troup
Klauber, Harry, c ..... College Station
Klein, James E., c ..... College Station
Klump, Virgil, c ..... Bartlett
Klusmire, Wm. F., c .... Omaha, Nebraska
Knapp, Kenneth K., Jr., c ..... Houston
Knight, Stuart B., c ..... Lindale
Knetsar, Boyd C., c ..... Houston
Knight, John W., c ..... Spurger
Knowles, Willis T., c ..... Kaufman
Kobayashi, Tokuye, c ..... Webster
Kodytek, Charles A., c ..... Abilene
Koen, Charles E., c ..... Edinburg
Koenig, Victor L., c ..... La Grange
Koetter, Gunter W., c ..... Houston
Kolodzey, Martin A., c ..... Yorktown
Konecny, Frank J., c ..... Corpus Christi
Koonce, Edwin, c ..... Neches
Kopecky, W. M., c ..... Wallis
Kornegay, M. E., c ..... Chriesman
Krenek, Bryant H., c ..... Bryan
Kreuz, Sam S., c ..... La Grange
Krogstad, Stanley F., c .....
.....Langley Field, Virginia
Kroll, Charles A., c ..... La Grange
Krueger, Leopold R., c ..... San Antonio
Krug, Kenneth E., Jr., c ..... Brenham
Kuban, Joe F., c ..... Ft. Worth
Kubin, Edward W., c ..... Bryan
Kuehl, Albert R., c ..... Riesel
Kuykendall, John S., c ..... Lometa
Laas, M. E., c ..... Bellville
Lacy, Lawrence C., c ..... Waco
LaFleur, Charles C., c ..... Houston
Lafon, Louis A., c ..... Laredo
Laird, John V., c ..... College Station
Lala, Gilbert O., c ..... Placedo
Landers, Horace, c ..... Pittsburg
Landrum, Geo. S., c ..... Dallas
Lane, Sam W., c ..... Cuero
LaPrelle, Frank B., Jr., c ..... Houston
Larner, F. M., c ..... May
Larsen, Leonard G., c ..... Dallas
Larson, John H., c ..... Cleburne
LaRue, Glover G., c ..... Lovelady
LaRue, William T., c ..... Slocum
Lasseter, William E., c ..... Gatesville
Latham, Robert E., c ..... Bowie
Law, Bonar F., c ..... Alvin
Lawder, William H., c .... Mobile, Alabama
Lawson, Victor R., c ..... Cisco
Leach, Herbert W., c ..... Stephenville
Leathem, Thomas H., c ..... Ennis
Leathers, J. B., c ..... Jewett
Ledbetter, James P., c ..... Waco
Ledbetter, Wm. R., c ..... Waco
Leddon, Wm. H., c ..... Pearsall
Lee, D. Ralph, c ..... Houston
Lee, Knox, Jr., c ..... Marshall
Lee, Walter M., c ..... Ft. Worth
Legett, Jesse H., Jr., c ..... Denton
LeGrand, W. H., c ..... Bryan
Lehmberg, Walton R., c ..... Mason
Lemke, Carl J., c ..... Waco
Lemm, Paul J., c ..... Brenham
Lesikar, Edward, cc ..... Caldwell
Leslie, Hubert B., c ..... Houston
Lester, Rebecca W., c ..... Bryan
Letbetter, Clovis E., c ..... San Saba
Letbetter, Thomas D., c .. College Station
Leuty, Gregory M., c ..... Pflugerville
Levin, Frank, c ..... Brenham
Levine, Ida Jo, c ..... Calvert
Levine, Phil Wm., c ..... Corsicana
Lewis, Bill O., c ..... Burke
Lewis, Converse R., Jr., c .....
..... College Station
Lewis, Frank R., c ..... Uvalde
Lewis, R. B., c ..... Bryan
Lewis, Tom M., c ..... Waco
Lewis, William E. Jr., c .... College Station
Liao, Shubert Shui-Chien, c .....
.....Kiangsi, China
Ligon, Jesse B., c ..... Fort Stockton
Liles, Kenneth W., c ..... Throckmorton
Lippman, Louis J., c ..... Rosenberg
Lipscomb, George M., c ..... Port Arthur
Lipscomb, Nelie, c..... North Zulch
Little, Ira C., c ..... Dallas
Little, Van A., c ..... College Station
Littlefield, Rease, c ..... Waco
Littlejohn, Rease, c ..... Waco
Lockhart, Hugh B., c ..... Beaumont
Lofton, John T., c ..... McKinney
Logan, George A., c ..... Floresville
Logan, Joe B., c ..... Sonora
Logan, Robert M., c ..... Georgetown
Lomax, Lee, cc ..... Franklin
Long, C. S., c ..... Archer City
Long, E. G., c ..... Roscoe
Long, Joseph T., c ..... Houston
Longmire, L. F., c ..... Alexandria, La
Looney, Mit P., c ..... Bryan
Lopez, Olaguibeet A., c .....
.....Hato-Rey, Puerto Rico
Lord, Charles W., c ..... Millett
Lord, Warren, c ..... El Paso
Lorenz, John P., c ..... Stockdale
Louderback, William R., c .... Wichita Falls
Loveless, Sidney L., c ..... College Station
Lowrance, Henry A., c ..... Cuero
Lowry, Burris H., c ..... Houston
Lozo, Robt. D., c ..... College Station
Ludecke, Edwin G., c ..... Burlington
Ludeman, Robert W., c ..... Marysville
Ludwig, James P., c ..... New Braunfels
Luke, Edwin D., c ..... Pecos
Luker, Chas. T., c ..... Proctor
Luker, James B., c ..... Eddy

Lumm, Alva J., c ..... Waxahachie
Lutz, Harry H., c ..... Bryan
Lutz, M. E., c ..... Henrietta
Lyle, Marion D., c ..... Denison
Lyon, Johnnie R., c ..... Bryan
Lyon, Johnnie R. (Mrs.), c ..... Bryan
McBride, Martin Jr., c ..... Greenville
McBride, Warren, c ..... Greenville
McCall, Maurice W., c ..... Waco
McClain, Newton B., c ..... Ft. Worth
McClellan, William D., c ..... San Antonio
McClelland, William H., c ..... Gilmer
McChesney, Don R., c ..... Del Rio
McClung, Ash G., c ..... Kerens
McCommas, Emmett L., c ..... Bynum
McCormick, Murray D., c .. Blooming Grove
McCraray, Evalyn, c ..... Beeville
McCrary, James O., cc ..... Big Spring
McCreight, Carl C., c ..... Batson
McCulloch, George R., c .... College Station
McCullough, Hugh T. Jr., c .... San Antonio
McCullough, Jo Anne, c ..... Bryan
McCullough, Mrs. M. L., c ..... Ridge
McCullough, Welty E., c ..... Wheelock
McCurdy, Berwin B., c ..... Gainesville
McDaniel, Chester H., c ..... Beaumont
McDaniel, Chas. R., c ..... Beaumont
McDaniel, Thomas W., c ..... Mart
McDaniel, Wilton T., c ..... Thornton
McDevitt, James F., c ..... Marfa
McDonald, Marshall W., c ..... Comanche
McDougald, Hulan, c ..... Bryan
McElhany, Clayton E., c ..... Roanoke
McElhany, R. L., c ..... Eustace
McElroy, Walter D., c ..... Italy
McFarland, Joe H., c ..... Flint
McGahey, Oma L., c ..... Ranger
McGee, Bruce R., c ..... Sherman
McGee, Frances E., c ..... Bryan
McGee, Roger V., c ..... Bryan
McGill, Herman N., c ..... Tyler
McGill, Thomas C., c ..... Tyler
McGlothlin, Earl W., c ..... Marble Falls
McGrain, Fred A., c ..... Houston
McGregor, Walter S., c ..... Temple
McGuire, Charles Jr., c ..... Newgulf
McHaney, Virginia, c ..... Bryan
McHenry, Albert C., c ..... Mission
McIlheran, Robert C., c ..... Dallas
McIlroy, Winfield W., c ..... Caldwell
McIntire, Charles R., c ..... Brownsville
McKee, Joe B., c ..... Center
McKee, John M., c ..... El Paso
McKemie, Ariel, c ..... Hearne
McKemie, Edward B., c ..... Dallas
McKenzie, Joseph D., c ..... Bryan
McKenna, F. M., c ..... Brenham
McKim, Hoke, c ..... Edcouch
McKnight, Bridwell J., c ..... Rekeau
McLeod, Edward C., c ..... Weldon
McLerran, Archie R., c ..... Cameron
McMillan, Mrs. Buna, c ..... Franklin
McMurrey, Joe L., c ..... Cold Springs
McNiel, N. A., c ..... Alvin
McPherson, Harry, c ..... Cleburne
McSwain, Ross F., c ..... Longview
McQuillan, Herbert R., c .... College Station
McVey, George W., c ..... Baytown
Mackey, John C., c ..... Wortham
Maddox, Frank O., c ..... Ennis
Maddux, Norman F., c .... College Station
Madeley, Henry, c ..... Temple
Mager, Neal A., c ..... Amarillo
Major, Fred J., c ..... College Station
Makeever, Samuel J., c ..... Bellville
Mandell, Buddy P., c ..... Amarillo
Maniloff, Leon N., c ..... Bryan
Mangold, Clyde H., c ..... San Antonio
Manley, Carl H., c ..... Denison
Manor, Thomas L., c ..... Port Arthur
Marburger, Billie Mae, c .... College Station
Marcello, C. J., c ..... Thibodaux, La.
Marcia, Alfred F., c ..... Bryan
Markle, David A., c ..... Port Neches
Marks, William M., c ..... Beaumont
Marques, Raymond Jr., c ..... Brownsville
Martin, Alvin M., c ..... Bryan
Martin, Carl A., c ..... Menard
Martin, Clarence H., c ..... Taylor
Martin, Charles Sam Jr., c ..... Waco
Martin, Daniel R., c ..... Mart
Martin, Franklin W., c ..... Rotan
Martin, Homer C., c ..... Mason
Martin, Jerry T., c ..... Quitman
Martin, James W., c ..... Alta Loma
Martin, Lockett B., c ..... Austin
Martin, M. T., c ..... San Antonio
Martin, Paul L., c ..... Dublin
Martin, Ruth, c ..... Dublin
Martin, Ted, c ..... College Station
Martin, Tommie G., c ..... Beaumont
Mascorro, Mercurio Jr., c ..... Laredo
Mash, Noah, c ..... College Station
Mason, Paul M., c ..... Irene
Massey, J. E., c ..... Houston
Massey, J. L., c ..... Sulphur Springs
Matchett, Christopher R., c ..... Cristobal, Canal Zone
Mater, Charles Guy, c ..... Waco
Matthews, Robert H., c ..... Longview
Matthews, Robert L., c ..... Pleasanton
Maurer, John J., c ..... Pharr
Mavrico, Alex George, c ..... San Antonio
Maxwell, H. D., c ..... Rockdale
Maxwell, Keith, c ..... Dallas
Maxwell, Thomas M., c ..... Waco
Mayberry, Robert T., c ..... Laredo
Mayfield, William L., c ..... San Antonio
Meador, Billy, c ..... Moody
Medellin, Phillip, c ..... Texarkana
Mefferd, Roy B., c ..... Stephenville
Meisell, E. Tillman ..... Columbus
Mejias, Diego B., c ..... Caracas, Venezuela
Melcher, Max A., c ..... La Grange
Melman, Harold, c ..... Washington, D. C.
Melton, Garrett F., c ..... Houston
Melton, William C., c ..... Mt. Pleasant
Mendl, James W., c ..... Bryan
Merka, Jeremiah, c ..... Rogers
Meyer, G. C., c ..... Bowie
Meyer, N. S., c ..... Texarkana
Meyer, Ray E., c ..... Jourdanton
Mikola, Harold, c ..... Brooklyn, N. Y.
Millard, Melvin R., c ..... Tye
Miller, Carl L., c ..... Eastland
Miller, Helen L., c ..... Bryan
Miller, Ivan J., c ..... Ft. Worth
Miller, Lawrence A., c ..... College Station
Miller, Looe, c ..... Silverton
Miller, Othaneil, c ..... Silsbee
Miller, Ross I., c ..... Bryan
Miller, W. L., c ..... Newton
Mills, Ervin R., c ..... Weslaco
Mimms, Marvin H., c ..... Grapeland
Mingus, George W., c ..... Iredell
Minor, Ernest N., c ..... Paulette, Miss.
Minnock, William A., c ..... Galena Park
Minsky, Sol, c ..... College Station
Mitchell, Robert S., c ..... Granbury
Mize, John T. H., c ..... Wallis
Moehlman, Roger, c ..... Bryan
Moffitt, Alfred F., c ..... Cuero

Mogford, Mrs. J. S., c ..... College Station
Mohle, Allie W., c ..... Lockhart
Molt, F. L., c ..... Hinton, Okla.
Monk, James W., c ..... Bryan
Montgomery, James T., c ..... Richards
Montgomery, James W., c ..... El Paso
Moore, Benson A., c ..... Vernon
Moore, Dan, c ..... Bryan
Moore, esse D., c ..... Newton
Moore, John D., c ..... Sweetwater
Moore, Jomes L., c ..... College Station
Moore, Mae, c ..... Temple
Moore, Paul J., c ..... San Antnio
Moore, Richard M., c ..... McAllen
Moore, William A., c ..... Clinton
Moore, William D., c ..... Longview
Moore, William J., c ..... Mt. Vernon
Moore, William P., c ..... Bryan
Morehead, Ronald M., c ..... Bryan
Morehead, Samuel E., c .... College Station
Morgan, J. O., c ..... College Station
Morgan, Tilford H., c ..... Roxton
Morley, John C., c ..... Kansas City, Mo.
Morris, Kyle H., c ..... Graham
Morris, R. Dale, c ..... Henderson
Morrison, Gerald H., c ..... Madisonville
Morrison, Roy C., c ..... May
Morrow, Homer N. Jr., c ..... Brownsville
Morse, Samuel A., c ..... Willis
Moseley, Joe C., c ..... Mansfield
Moser, Estel E., c ..... Stephenville
Mosesman, Max A., c ..... Dallas
Mosley, Walter O. Jr., c ..... North Zulch
Moudy, Chester E., c ..... Nevada
Moughon, Billy C., c ..... Lufkin
Mousner, Leonard, c ..... College Station
Mueller, Carl, c ..... Austin
Mueller, Wayne L., c ..... Kenedy
Mujica, Michael A., c ..... Juncas, P. R.
Mullen, William C., Jr., c .... Fort Worth
Muller, Westley F., c ..... Goose Creek
Mullins, Orin E., c ..... Bryan
Murphey, Charles E., c .... College Station
Murphy, Pleasant L., c ..... Lufkin
Murray, Grady O., c ..... Bryan
Murray, James W., c ..... San Saba
Murray, Robert J., c ..... Whitney
Murray, William H., c ..... Eagle Pass
Myatt, Herman, c ..... Ft. Worth
Myers, Elton P., c ..... Palestine
Myers, Marvin L., c ..... Munday
Mylius, Maurice F., c ..... San Antonio
Myrick, James L., c ..... Crandall
Nabors, Ambrose L., c .... College Station
Nachlinger, Elmo E., c ..... Taylor
Nachman, Vera M., c ..... San Antonio
Nathan, William R., c ..... Bryan
Neal, Roy L., c ..... Forney
Neas, Cyril V., c ..... Abilene
Nedbalek, O. L., c ..... West
Neeley, Price, c ..... College Station
Neeley, Ruth Erin, c ..... Bryan
Neeley, Alton G., c ..... Bryan
Nelson, Lewis J., c ..... Gilmer
Nelson, Robert R., c ..... Hubbard
Ness, Lew P., c ..... Mexico City, Mexico
Neubert, Siegfried T., c .... College Station
Neumann, Andrew F., c ..... Riesel
New, Henry F., c ..... Buda
Newman, Coleman C., c ..... Iredell
Newton, Dennie E., c ..... Kirbyville
Nicholas, Carl B., c ..... Tyler
Nichols, Clyde R., c ..... Russellville, Ark.
Nichols, Doyle R., c ..... Kerrville
Nichols, Fred J., c ..... Dallas
Nisbet, Robert E., c ..... Bryan
Nix, Sem Jr., cc ..... Temple
Noel, Annette Marie, c ..... Abbeville, La.
Noles, John R., c ..... Wellington
Noles, Lawrence E., c ..... Mexia
Northrop, Page H., c ..... Houston
Norton, William M. Jr., c ..... Bovina
Novak, Leo C., c ..... College Station
Novosad, Albert C., c ..... Wheelock
Novosad, Lena V., c ..... Wheelock
Novosad, Raymond R., c ..... Caldwell
Nuckols, William H., c ..... San Antonio
Null, Glenn G., c ..... Waco
Oates, Eugene C., c ..... College Station
O'Bryan, Oliver D., c .... Sulphur, La.
Odom, Malcolm W., c ..... Dallas
O'Dowd, William C., c ..... Temple
O'Hara, Michael J., c ..... Laredo
Oliver, William M., c ..... New Castle
O'Neal, William C., c ..... Emhouse
O'Neal, Walter E., c ..... Lometa
Orgain, Henry K., c ..... Temple
Orms, Barnett, c ..... Henderson
Orms, Deane c ..... Bryan
Ornelas, Angela Irene, c ..... El Paso
Ortiz, Mateo R., c ..... Mexico City, Mexico
Osborn, John R., c ..... Veedersburg, Ind.
Osborne, Charles E., c ..... Three Rivers
Oswalt, William H., c ..... Dallas
Owen, Albert H. Jr., c ..... Wichita Falls
Owen, George R., c ..... Port Arthur
Owen, Maywood B., c ..... Galveston
Owen, W. R. c ..... Abilene
Pace, Edwin R., c ..... McGregor
Paclik, Charlie J., c ..... Gainesville
Page, Grover C. Jr., c ..... El Paso
Paggi, Chas. E., c ..... Beaumont
Paley, Kenneth J., c ..... Lake Forrest, Ill.
Palmer, Cecil M., c ..... Waco
Pamplin, T. N. c ..... College Station
Panter, Henry H., c ..... Alba
Park, John D., c ..... McAlester, Okla.
Parker, Catherine, c ..... Bryan
Parker, Don, c ..... Waxahachie
Parker, James H., c ..... Wylie
Parker, James W., c ..... Ft. Worth
Parker, Reuben D., c ..... Mt. Pleasant
Parker, Roth E., c ..... Crockett
Parker, Ralph W., c ..... San Antonio
Parker, Willie C., c ..... Centerville
Parkes, Joe C., c ..... Rio Grande City
Parks, David T., c ..... Dallas
Parks, Edward, c ..... Liberty Hill
Parnell, Edward D., c ..... Cameron
Parsons, Seth H., c ..... Big Spring
Partridge, Harold J., c ..... Munday
Patrick, Orrell L., c ..... Corsicana
Patterson, C. A., c ..... Bryan
Patterson, Robert C., c ..... Houston
Patterson, Mrs. Wesley B., c ..... Axtell
Patterson, Wesley B., c ..... Axtell
Pavelka, Miro A., c ..... Ennis
Payne, Herschel H., c ..... El Campo
Payne, J. B., c ..... Hearne
Payne, Viron, Ernest, c ..... Bryan
Payne, W. G., c ..... Cross Plains
Pearson, Luther E., c ..... Bryan
Pearson, Philip E., c ..... Wichita Falls
Pearson, Robert F., c ..... Temple
Peavey, Clarence W., c ..... San Antonio
Peavey, Howard D., c ..... Houston
Pecena, Ben J., c ..... Wheelock
Peeler, Lawrence F., c ..... Dallas
Pelot, Harry H., c ..... Dallas
Pennington, Edward C., c ..... Pampa
Pennington, Malcolm C., c ..... Harrold
Perkins, Dan, c ..... Hearne

Perkins, Tom A., c ..... Mt. Pleasant
Perkins, Winford B., c ..... Bleburne
Permenter, Pollie J., c ..... Joaquin
Pervin, Frank W., c ..... Cameron
Perryman, Ray G., c ..... College Station
Persons, James R., c ....Hallettsville
Persons, ohn V., c ..... College Station
Peterson, Orvid V., c ..... Olivia
Peterson, Lynton L., c ..... Louise
Petitfils, Arnold F., c ..... Galveston
Petit, D. Kirk, c ..... Whiteboro
Pettit, Edward Y., c ..... Presidio
Petty, Winnie, c ..... Franklin
Peyton, Tom J., c ..... Teague
Pieper, Otto, cc ..... Marlin
Pierce, Frank C., c ..... Laredo
Piester, James M. Jr., c ..... Weatherford
Pilant, Eugene C., c ..... Bryan
Pinchback, Jarvis S., c ..... Beaumont
Pinchin, Harold J., c ..... Hallettsville
Pipkin, Carl H., c ..... Beaumont
Pitman, Dorothy L., c ..... Bryan
Pochyla, Herber W., c ..... West
Pollan, G. W., c ..... Rice
Pool, Geo. W., c ..... Richland Springs
Porter, Edwin E., c ..... Bryan
Porter, Henry K., c ..... Belton
Porter, Walter L. Jr., c .... College Station
Porterfield, Clyde J., c ..... Bryan
Post, Julius J., c ..... Runge
Poston, B. L., c ..... Valley Mills
Potts, John W., c ..... Dallas
Pou, Walter L., c ..... Cleburne
Powell, Rufus E., c ..... Navasota
Prager, A. J., c ..... Big Spring
Pratt, Inez M. E., c ..... Phoenix, Arizona
Pratt, Wayne T., c ..... Phoenix, Arizona
Price, Lindap., c ..... Montgomery
Primm, Hugh R., c ..... Dallas
Pritchett, O. D., c ..... Bedias
Procter, Wm. S., c ..... College Station
Propes, Weldon, c .... Bryan
Prove, Edward H., c ..... Lockhart
Prowell, Edward R., c ..... Richmond
Puckett, John W., c ..... Pharr
Pustejovsky, Victor W., c .... Schulenburg
Pye, Edgar, c ..... College Station
Quilichini, Leo V., c .....
..... Sabana Grande, P. R.
Rabb, Carl Richard, c ..... Hillsboro
Radack, Edmund A., c ..... San Antonio
Radford, James L., c ..... Denison
Ragsdale, Velma N., c ..... Caldwell
Rainey, Charles H., c ..... Bloomburg
Ramsay, William C., c ..... Bandera
Randolph, Neal M., c ..... Stephenville
Rawlings, W. H., c ..... Kerrville
Rawlinson, Homer D., c ..... Joinerville
Rawls, Jesse B., c ..... College Station
Rawls, Robert D., c ..... Coolidge
Rea, Buford E., c ..... Montgomery
Read, Carl Jr., c ..... Bridgeport
Read, Nathaniel B., c ..... Kilgore
Read, N. B. (Mrs.), c ..... Kilgore
Ready, George T., c ..... Texas City
Reagan, E. H., c ..... Marquez
Reat, John H., c ..... Holland
Rector, Jack D., c ..... Sanger
Reid, Duncan H., c ..... College Station
Renshaw, Thomas L., c ..... Cumby
Rentzel, William F., c ..... Dallas
Reppert, Elinor L., c ..... Bryan
Restivo, Frank A., c ..... Bryan
Reynolds, Walter E. Jr., c ..... Navasota
Rhodes, Taylor F., c ..... Wortham
Rhodes, Thos. R., c ..... Huntsville
Rice, Imogene L., c ..... Bryan
Richards, W. C., c ..... Grapeland
Richardson, Bennard C., c ..... Kirbyville
Richardson, James E., c ..... Bryan
Richardson, O. Oliver, c ..... Detroit
Richardson, Theron, c ..... Atlanta
Richmond, Fred Jr., c ..... Pleasanton
Richmond, John R., c ..... Blanket
Riddle, Rolean B., c ..... Decatur
Ridgeway, Charles L., c ..... Donna
Ridlehuber, Jim Mack, c .... College Station
Riedel, Geo. E., c ..... Karnes City
Rinn, Jesse C., cc ..... Brenham
Rivers, Ernest D., c ..... Omaha
Rivoire, Olin G., c ..... Marysville
Robbins, J. T., c ..... Coolidge
Roberts, C. E., c ..... College Station
Roberts, Chas. V., c ..... Overton
Roberts, Homer D., c ..... Denton
Roberts, L. M., c ..... Terrell
Roberts, William R. Jr., c ..... Rising Star
Robeson, Tolbert C., c ..... Centerville
Robinson, Kid F., c ..... Mexia
Robinson, L. Dean, c ..... Tabor
Robinson, Odell V., c ..... North Zulch
Rochelle, Esther Marie, c ..... Bryan
Rockwell, Cecil C. Jr., c ..... Houston
Rockwood, William R., c ..... Wharton
Roddy, L. O., c ..... Lancaster
Rodgers, Robert B., c ..... San Antonio
Rodgers, Robert J., c ..... Center
Rodriguez, Frederico A., c .... Jalapa, Mex.
Roesner, Earl H., c ..... Katy
Rogers, Billy B., c ..... Alvarado
Rogers, D. C., c ..... Forsan
Rogers, Mrs. D. C., c ..... Forsan
Rogers, Edward R., c ..... Hale Center
Rogers, Rufus H., c ..... Del Rio
Rollow, Thomas P., c ..... Ft. Worth
Romer, Gus J., c ..... San Juan
Roming, James A., c ..... Eddy
Rooks, Jesse M., c ..... Dalhart
Roquemore, E. A., c ..... Trenton
Rose, Donald H., c ..... Amarillo
Rose, Paul P., c ..... Ft. Worth
Rosenberg, Harry B., c .... College Station
Rosenberg, Lester E., c ..... La Grange
Rosenfeld, Jerome, c ..... New York N. Y.
Rosenthal, Jacob L., c ..... Houston
Ross. Fred T., c ..... Chico
Ross, William R., c ..... Franklin
Roth, Sybil, c ..... Kurten
Rothrock, Joseph E., c ..... Kerrville
Rountree, William M., c ..... Garden City
Routt, Jack R., c ..... Chapel Hill
Rowland, James M., c ..... Ft. Worth
Royle, Willie C., c ..... Nacogdoches
Ruckman, Joe B., c ..... Karnes City
Ruckman, Tom M., c ..... Karnes City
Rudy, Jack H., c ..... Dallas
Ruiz, F. G., c ..... Tampico, Mexico
Runnels, Herman T., c ..... Bronson
Russ, Thomas A., c ..... Houston
Russell, Edwin C., c ..... Corpus Christi
Russell, Jess M., c ..... Hereford
Russell, James S., c ..... Ft. Worth
Russell, Ralph W., c ..... Bynum
Russell, W. A. c ..... Kilgore
Rust, Jack C., c ..... Dallas
Ryan, Key W., c ..... Eagle Pass
Ryan, O. Joe, c ..... Douglass
Ryan, O. T., c ..... Lubbock
Ryan, T. M., c ..... Lubbock
Sadler, William O., c ..... College Station
Sadler, Walter W., c ..... College Station
Saegert, Jesse J., c ..... Seguin

Sain, Carl, c ..... College Station
Sakach, Stephen P., c ..... Bryan
Saldana, Oscar M., c ..... Laredo
Sall, Morton L., c ..... Catskill, N. Y.
Salm, Louis C. Jr., c ..... Granger
Salter, Richard D., c ..... College Station
Salzman, Joseph H., c ..... Von Ormy
Sammons, Robert J., c ..... College Station
Sample, Ernest L., c ..... Bryan
Sanders, Howard J., c ..... Eden
Sanders, John H., c ..... Waskom
Sanders, Bascom L., c ..... Corsicana
Sanders, John J., c ..... Corpus Christi
Sanders, Oral M., c ..... Littlefield
Sanders, Ralph D., c ..... Carrollton
Sanders, W. A. Jr., c ..... Cleburne
Sandlin, Fred C., c ..... San Angelo
Sands, Herschel W., c ..... Hutto
Sanford, Charlie G., c ..... Timpson
Saunders, James R., c ..... Wetmore
Saunders, Mary Alice, c ..... Bryan
Savage, Mae Bess, c ..... Caldwell
Savage, Sara Nell, c ..... Caldwell
Sayles, Margaret, c ..... Caldwell
Scales, Wallace W., c ..... San Antonio
Scamardo, Dorothy F., c ..... Caldwell
Schaefer, Chas. A., c ..... La Grange
Schaefer, Nicholas J., c ..... Latex
Schaeffer, Dean H., c ..... Happy
Schaer, William K., c ..... Sealy
Schlitzkus, Ruth, c ..... West Columbia
Schmaltz, William H., c ..... West
Schmidt, Erna, c ..... Kurten
Schmucker, Chas. L., c ..... Bellville
Schneider, Carl C., c ..... Ft. Worth
Schneider, Edith C., c ..... San Antonio
Scholle, Carl H., c ..... Bryan
Schreiber, Clarence A., c ..... Mart
Schroeder, Herbert A., c ..... Buckholts
Schulman, Anna, c ..... Bryan
Schulte, Otto J., c ..... Brenham
Schuster, Herman C., c ..... San Antonio
Schutte, Henry J. Jr., c ..... Houston
Schutz, Albert D., c ..... San Antonio
Schutz, Charles D., c ..... San Antonio
Schwartz, Esther Molly, c ..... Ft. Worth
Scofield, James A., Jr., c ..... Bryan
Scofield, Margaret, c ..... Bryan
Scott, Austin G., c ..... Huffman
Scott, Emory O., c ..... Refugio
Scott, Estell W., c ..... Stephenville
Scully, John H., c ..... Ft. Worth
Sealy, Martin T., c ..... Houston
Seamans, John E., c ..... Garrison
Searcy, Maulice H., c ..... Bryan
Seargeant, Albert J. Jr., c .... Brackettville
Seay, Edgar W., c ..... Waxahachie
Seay, M. D., c ..... Sandy Point
Sebesta, Edmund E., c ..... Bellville
Sebesta, Ernest F., c ..... Snook
Sedberry, Jim M., c ..... Houston
See, Ervin O., c ..... Lyons
Seitz, George L., c ..... Wingate
Selman, William E., c ..... Eden
Serna, Oscar A., c .... Mexico City, Mexico
Shaddix, Ryland D., c ..... Shamrock
Shannon, James W., c ..... College Station
Shannon, Roger R., c ..... Normangee
Sharp, Thos. Fred, c ..... Dallas
Shaw, A. J., c ..... Henderson
Shaw, Brutus B., c ..... Killeen
Shaw, J. Arnold c ..... Dallas
Shehee, Henry T., c ..... Terrell
Shelton, Dixon B., c ..... Paris
Shelton, Ernest D., c ..... Gatesville
Shelton, Jack Jr., c ..... College Station
Shelton, Myra, c ..... Paris
Shelton, Rodney F., c ..... Grapevine
Shelton, Walter K., c ..... Dallas
Shepard, Neal D., c ..... Texon
Shepherd, Maurice F., c ..... Bryan
Shepherd, Paul B., c ..... Bryan
Sheppard, A. V., c ..... Vineyard
Sheppard, Robert B., c ..... Cuero
Sherrill, Roy L. Jr., c ..... Temple
Shettle, Dell, c ..... Commerce
Shockey, Jacob C., c ..... Gilmer
Shone, Louis A. II, c ..... College Station
Sikes, Lela M., c ..... Bryan
Sikes, Robert E., c ..... Bryan
Silbert, I. M., c ..... Waco
Silverman, David L., c ..... Longview
Simmang, Clifford M., c ..... San Antonio
Simmons, James H., c ..... Arlington
Simmons, Jas. O. Jr., c ..... Troy
Simmons, William C., c ..... Trinidad
Simonpietri, Carlos G., c ..... Ponce, P. R.
Simpson, Clarence E. Jr., c ..... Dallas
Simpson, Donald P., c ..... Texon
Sims, Marion W., c ..... Denton
Singletary, Giles, c ..... Center
Singletary, George F., c ..... Bryan
Skelly, Charles A. Jr., c ..... Rosita, Mex.
Skipper, John D., c ..... Stephenville
Skrla, Dick, c ..... Ganado
Slack, Richard C., c ..... Presidio
Slagle, Lucian E., c ..... Hearne
Slater, Wilda B., c ..... Dawson
Slaughter, Joseph C., c ..... Bryan
Sleeper, Warren C., c .... Ft. Sam Houston
Slicker, Joseph A., c ..... Cisco
Sloop, Fred L., c ..... Bryan
Small, Clyde J., c ..... Broaddus
Smart, John E., c ..... Denison
Smith, Anne Marie, c ..... Fairbanks
Smith, Bob S., c ..... Killeen
Smith, Chas. E., c ..... Rockwall
Smith, Everett L., c ..... Overton
Smith, George E., c ..... Galveston
Smith, Howard, c ..... Lancaster
Smith, Howard C., c ..... El Paso
Smith, Justus, c ..... Lufkin
Smith, James C., c ..... San Saba
Smith, Key C., c ..... Arlington
Smith, Kenneth D., c ..... Port Arthur
Smith, Lawrence G., c .... Goldengate, Ill.
Smith, Manning F., c ..... College Station
Smith, Marvin J., c ..... Sonora
Smith, Norman D., c ..... Dallas
Smith, Paul W., c ..... San Benito
Smith, Robert A., c ..... College Station
Smith, Sidney B., c ..... College Station
Smith, Tanner C., c ..... Rule
Smith, Tracy E., c ..... Corsicana
Smith, Travis J., c ..... College Station
Smith, Vernon S., c ..... Dallas
Smith, William H., c ..... Waco
Smothers, Daniel D., c ..... Houston
Smyth, Leon L., c ..... Hillsboro
Smyth, Needham B., c ..... Uvalde
Snell, Casbeer, c ..... Rankin
Snydelaar, Nicolaas A., c .... Mexico, Mex.
Soape, Ralph E., c ..... Carthage
Soriano, A., c ..... Caracas, Venezuela
Sosolik, Helen M., c ..... Bryan
Soto, M. A., c ..... Lares, P. R.
Sowell, Edward N., c ..... Elgin
Sowers, Robert M., c ..... Austonio
Sparks, William M., c ..... Ozan, Ark.
Spaugh, Paul, c ..... Mart
Speed, Robert J., c ..... Shafter
Spencer, Henry C., c ..... College Station

Spencer, H. L., c ..... Georgetown
Spreen, Johnny F., c ..... Brenham
Spruiell, Lowell L., c ..... Iowa Park
Spurger, Stephen H. Jr., c .... Mt. Pleasant
Sramek, Dorothy Marie, c ..... Bryan
Stafford, Wallace B., c ..... Bryan
Staggers, Darrell T., c ..... Sherman
Staggs, Harold W., c ..... Bryan
Stambaugh, Claude K., c ..... Seguin
Stanford, Raymond W., cc ..... Bryan
St. Clair, Fredric A., c ..... Brady
Steed, William G., c ..... Dallas
Steele, Elbert D., c ..... Sidney
Stegall, Mrs. Howard, c ..... Franklin
Steimel, Robert M., c ..... San Antonio
Steinkamp, Henry Jr., c ..... Crawford
Steinmann, William E., cc .... Schulenburg
Stephens, Betty R., c ..... Dallas
Stephens, Gordon S., c ..... Waco
Stephens, Thomas S., c ..... Temple
Stephens, William H., c .... College Station
Stewart, John S., c ..... Houston
Stewart, L. L., c ..... Eddy
Stinson, Milton A., c ..... Axtell
Stitt, Ira B., c ..... Dallas
Stokes ,Thomas, c ..... Klondike
Stone, H. L., c ..... Springtown
Stone, LeRoy E., c ..... Sulphur Springs
Stoneham, S. Lloyd, c ..... Stoneham
Story, Daniel A., c ..... Corsicana
Strange, Rex C., cc ..... McKinney
Stratos, Nick L., c ..... Houston
Streicher, Wilhelm G., c ..... Seagoville
Strickland, Juston, c ..... Naples
Strickland, J. D., c ..... Lorenzo
Stromberg, Edward H., c ..... Lockhart
Strong, Emmett R., c ..... Henderson
Stroud, Walter P., c ..... Ft. Smith, Ark.
Stuart, Marguerite L., c ..... Bryan
Stubbs, Stoney M., c ..... Bryan
Stubbs, Volney B., c ..... Hearne
Stuteville, Mahlon V., c ..... Hooks
Sullivan, F. B., c ..... Woodville
Sullivan, James G., cc ..... Corpus Christi
Sullivan, Walter W., c ..... Ft. Worth
Surovik, Wm. L., c ..... Caldwell
Swallow, Fred W., c ..... Ft. Worth
Swarthout, Edward W., c ..... Bryan
Sweeten, Donald W., c ..... Lott
Swift, Harvey G., c ..... Zavalla
Synnott, Wilbur H., c ..... Houston
Syptak, Raymond A., c ..... Bryan
Takacs, Joseph E., c ..... Houston
Tamargo, Emilio M., c ..... Saltillo, Mex.
Tarter, James B., c ..... College Station
Tarver, Jack H., c ..... Shreveport, La.
Tate, Herbert C., c ..... Kingsland
Tatsuo, Daiko, cc ..... Dallas
Tatum, Robert M., c ..... Bryan
Taylor, Donald F. Jr., c .....Dallas
Taylor, Harold E., c ..... San Augustine
Taylor, James E., c ..... North Zulch
Taylor, James W., c ..... Taylor
Taylor, William H., c ..... Milano
Teal, Royal F., c ..... Jacksonville
Teer, Howard L., cc ..... McAllen
Terrell, Lopaz H., c ..... College Station
Thaxton, John H., c ..... College Station
Thaxton, Tom, c ..... Cherokee
Thieme, Clarence M., c ..... San Benito
Thomas, Clifton, c ..... De Leon
Thomas, E. R., c ..... Thornton
Thomas, Edwin W., c ..... Gainesville
Thomas, Kessler O., c ..... Cisco
Thomas, O. Pendleton, c ..... Forney
Thomas, William I., c ..... Tuscon, Arizona
Thompson, Frank L., c ..... La Porte
Thompson, George T., c ..... La Feria
Thompson, Herman L., c ..... Sweetwater
Thompson, Irvin, c ..... Silsbee
Thompson, Lowell E., c ..... Saginaw
Thompson, Ralph F., c ..... San Antonio
Thorburn, George W., c ..... Wichita Falls
Tiemann, Erwin F., c ..... La Grange
Tillson, George W., c ..... Mission
Timm, Henry O., c ..... Hallettsville
Tims, Nathaniel J. Jr., c ..... Abilene
Tinney, Jack R., c ..... Bowie
Tinney, Roger T., c ..... Winnsboro
Todd, Francis E., c ..... Quanah
Todd, James A. D., c ..... Ft. Worth
Todd, Walker P., c ..... Crowell
Tolbirt, R. C., c ..... Columbus
Tomaso, Leo, c ..... Dallas
Tomberlin, M. P., c ..... Atlanta
Tooraen, Emeric W., c ..... College Station
Torrance, Roy E., c ..... Swenson
Torrence, Richard H., c ..... Waco
Towery, Pat, c ..... Crockett
Townsend, George, c ..... College Station
Trail, Charles D., c ..... Kaufman
Trant, Robert C., c ..... Bryan
Trapolino, S. L., c ..... Houston
Tucker, Boyd B., c ..... Ft. Worth
Tumlinson, Victor P., c ..... San Perlita
Turk, Richard D., c ..... Bryan
Turner, J. E., c ..... Manor
Turner, Joe G., c ..... Ft. Davis
Turner, John W., c ..... Anahuac
Uhr, Clinton W., c ..... San Antonio
Urbanovsky, Alvin T., c ..... Caldwell
Urbanovsky, Fred, c ..... Caldwell
Valls, Mike, c ..... Laredo
Varisco, Tony A., c ..... Bryan
Varnell, John R., c ..... Rosebud
Vaughn, Finis W., c ..... Plainview
Velasco, R. E. c ..... Philippine Islands
Venner, Ralph C., c ..... Wolfe City
Vick, Clarence C., c ..... Bryan
Vick, E. L., c ..... Woodlake
Vick, H. G., c ..... Lewisville
Vick, William D., c ..... Bryan
Vines, Weldon B., c ..... Comanche
Vogelman, Leo, c ..... College Station
Vogt, Charles A., cc ..... Schulenburg
Voss, Harry C., c ..... Gatesville
Voss, Herman C., c ..... Houston
Waddell, Thomas C., c ..... Odessa
Wade, Robert C., c ..... Brownsville
Wagner, Frank L., c ..... Temple
Waidhofer, Joe J., c ..... Galveston
Waldrep, Nadine, c ..... Pottsville
Walker, Chester C., c ..... College Station
Walker, Chas. W., c ..... Henderson
Walker, G. H., c ..... Gladewater
Walker, James M., c ..... Brownsville
Walker, Kirby H., c ..... Laredo
Walker, Margaret A., c ..... Bryan
Walker, W. P. Jr., c ..... Crosbyton
Wall, James E., c ..... Grapevine
Wallace, Eugene J., c ..... Kilgore
Wallace, James B., c ..... Goose Creek
Wallis, Robert P., c ..... Gainesville
Wallis, William R., c ..... Houston
Ward, Jeremiah III, c ..... Poteet
Ward, Margaret, c ..... Caldwell
Warden, Onis C., c ..... Ranger
Ware, James N., c ..... Houston
Warner, Edgar B., c ..... Waco
Warner, James, c ..... Waco
Warren, Alex G., c ..... Ft. Worth
Warren, William J. Jr., c ..... Marshall

Waters, Philip G., c ..... Houston
Watkins, Loy E., c .... Bartlesville, Okla.
Watkins, Newt R. Jr., c ..... Rosebud
Watson, Wm. A., c ..... Kirbyville
Watts, Amanda J., c ..... Bryan
Watts, Charlie O., c ..... Gainesville
Watts, George H., c ..... Chester
Weaver, Lem, c ..... Silverton
Weaver, Lonnie H., c ..... College Station
Weaver, Percy A. Jr., c ..... Dallas
Webb, Dorothy I., c ..... Bryan
Webb, Irving H., c ..... Houston
Webb, Linden A., c ..... Farmersville
Weddington, Mary A., c ..... Bryan
Wedel, William L., c ..... Heidenheimer
Weiner, Max, c ..... Houston
Weisent, Anne, c ..... Pittsburg
Welch, Harold C., c ..... Sabine Pass
Welhansen, Jack R., c ..... Kingsville
Wells, James D., c ..... Houston
Wells, Robert A., c ..... Longstreet, La.
Wells, R. W., c ..... Quitman
Wenmohs, Max J., c ..... College Station
Wentworth, Earl Jr., c ..... Von Ormy
Werntz, Omar G., c ..... College Station
West, John R., c ..... Dallas
West, Mary B., c ..... Calvert
Westerman, Marl A., c .... Valley Springs
Weston, Ralph S., c ..... Bryan
White, Billy, c ..... Ft. Worth
White, Clarence M., c ..... Beaumont
White, Grover C. Jr., c ..... Bryan
White, Geo. N., c ..... Leona
White, Richard R., c ..... San Antonio
White, William C., c ..... Gladewater
White, Willard F., c ..... Dublin
White, Wade W., c ..... Winters
Whitehead, Ollie C., c ..... Leander
Whitehurst, William C., c ..... Mesquite
Whiteley, Thad E., c ..... Bryan
Whitley, Ruth V., c ..... Conroe
Whitson, James W., c ..... Milford
Whitt, William C., c ..... Houston
Whitle, Gilbert C., c ..... Lawn
Whorton, Edgar H., c ..... Bryan
Wiley, Willam H., c ..... College Station
Wilk, Jake L., c ..... Houston
Wilkins, Charlie S., c ..... Stephenville
Wilkinson, Albert L., c ..... Sour Lake
Wilkinson, Mary (Mrs.), c ..... Katy
Wilks, Foy E., c ..... Taylor
Williams, Charles B. Jr., c ..... Comanche
Williams, C. C., c ..... Georgetown
Williams, David G., c ..... Commerce
Williams, Hugh R., c ..... Smithville
Williams, James A. Jr., c .... College Station
Williams, John S., c ..... Brownwood
Williams, J. T., c ..... College Station
Williams, Kenneth G., c .... College Station
Williams, K. R., c ..... Clint
Williams, Morris E., c .... Sulphur Springs
Williams, Mick G., c ..... Amarillo
Williams, Richard D., c ..... Mexia
Williams, Robert H., c .... Carrizo Springs
Williamson, Marion N. Jr., c .... Rochelle
Willrich, Leslie H., c ..... Port Arthur
Wilson, Houston C., c ..... Cotulla
Wilson, Dan C., c ..... Chillicothe
Wilson, Herbert C., c ..... Bowie
Wilson, Royce L., c ..... Douglass
Wilson, Sidney, c ..... Ft. Worth
Wilson, William B., c ..... Waco
Winder, Norman G., c ..... Dallas
Windrow, D. A., c ..... Hondo
Windham, James T., c ..... Abilene
Winkel, Raymond F., c ..... Llano
Winkler, Chas. H., Jr., c .... College Station
Winkler, Mrs. C. H. Jr., c ..... College Station
Winkler, Max C., c ..... New Braunfels
Winn, Robert K., c ..... San Antonio
Winstead, Chas. D., c ..... Weatherford
Wise, Whitby F., c ..... Dallas
Wisenbaker, Royce E., c ..... Mineola
Witchell, Arthur S., c ..... San Antonio
Wofford, John T., c ..... Cuero
Wood, Mary D., c ..... Hearne
Wood, Seth S., c ..... Bryan
Wood, V. D., c ..... Texarkana
Woodbridge, Robert E., c .....San Jose, Costa Rica
Woods, Valton B., c ..... Marquez
Woodward, Walter K., c ..... Nacogdoches
Worthington, Robert I., c ..... Caldwell
Wrenn, George M., c ..... College Station
Wright, Charles A., c ..... Dallas
Wright, Roy M., c ..... Eddy
Wright, William C., c ..... Pleasanton
Wurzbach, R. K., c ..... San Antonio
Yarbrough, Durward B., c ..... Bryan
Yarling, Noel B., c .... Rosenberg
Yeary, Walter R., Jr., c ..... Denton
Young, Coy D., c ..... Godley
Young, Roy, c ..... Port Arthur
Young, Thomas C., c ..... Lubbock
Young, Wilburn, cc ..... Florence
Young, W. C., c ..... Palestine
Yust, Robert L., c ..... Batson
Zabcik, Edwin J., c ..... Rogers
Zeiss, Lawrence M., c ..... Brenham
Zellers, E. G., c ..... College Station
Zemanek, Antone P., c ..... Stockdale
Zercher, John C., c ..... Dallas
Zlotnick, Albert M., c ..... College Station
Zuehl, Edgar H., c ..... La Vernia

SUMMARY OF ENROLLMENT, SESSION 1938-39

(June 1, 1938 to May 1, 1939)

Regular Session 1938-39:

Course	Graduate	5th Year	Senior	Junior	Sophomore	Freshman	Special	Total
Agr. Administration	27	–	123	127	182	288	1	748
Agricultural Education	2	–	63	67	41	62	–	235
Agricultural Engineering	5	–	31	22	38	34	–	130
Agriculture	45	–	147	185	199	316	3	895
Landscape Art	4	–	8	4	6	12	–	34
Liberal Arts	–	–	41	52	90	161	1	345
Science	68	–	33	26	53	94	3	277
Arch. Engineering	–	–	4	3	13	22	–	42
Architecture	2	6	14	15	22	42	1	102
Chemical Engineering	5	–	41	56	87	152	–	341
Civil Engineering	8	–	35	42	78	91	2	256
Elec. Engineering	10	–	45	63	89	168	–	375
Eng. Administration	–	–	22	21	–	–	–	43
Geol. Engineering	–	–	8	9	–	–	–	17
Industrial Education	4	–	7	10	20	27	–	68
Mech. Engineering	11	–	66	137	222	355	1	792
Petroleum Engineering	1	2	80	136	202	323	1	745
Textile Engineering	1	–	2	–	3	–	–	6
Cotton Marketing	–	–	–	–	18	21	2	41
Veterinary Medicine	2	2	85	87	112	81	1	370
Total	195	10	855	1062	1475	2249	16	5862

Extension Course in Agricultural Economics 18

Extension Courses in Agricultural Education 16

Total Regular Session, 1938-39 5896

Summer Session, 1938: 1. College 1875

2. Cotton Classing 25

Total Summer Session, 1938 1900

Grand Total 7796

Less Names Repeated 1183

Net Total Regular Session 1938-39 and Summer Session 1938 6613

SHORT COURSES

Summer Session, 1938 and Regular Session, 1938-39:

Agrostology Short Course (July 18 to August 1, 1938)	8
Beef Cattle Short Course (February 22, 1939)	175
County Superintendents' Conference (August 8-11, 1938)	124
Dairy Manufacturing Short Course (January 16-20, 1939)	65
Dairy Herdsmen and Cow Tester Short Course (November 28 to December 1, 1938)	49
Farmer's Short Course (July 6-15, 1938)	3456
Firemans' Short Course (July 18-22, 1938)	540
Ginners' Short Course (June 7 to July 19, 1938)	20
Highway Short Course (April 5-7, 1939)	387
Physical Education Short Course (August 14-20, 1938)	112
Rural Scout Leaders (November 2, 1938)	35
Texas Institute for Cooperatives (July 13-14, 1938)	75
Texas School Administration Conference (August 9-12, 1938)	88
Vocational Teachers' Short Course for General Professional Men (August 22-26, 1938)	578
Water Works Short Course (February 13-17, 1939)	274
Total, Short Courses	5983

DEGREES CONFERRED FEBRUARY 4, 1938

Master of Science (4)

Walter Richard Minzner, B. S., Northwestern University, 1936.
Major Study—Electrical Engineering
Thesis: "A study of Capacitor-Type Induction Motors."

William McCray Simpson, B. S., University of Oklahoma, 1936.
Major Study—Civil Engineering
Thesis: "Effect of Joint Slip on Secondary Stresses."

Heber Thomas Stewart, B. S., Agricultural and Mechanical College of Texas, 1931.
Major Study—Agricultural Engineering
Thesis: "A Study of the Snapping Qualities of Cotton Bolls."

Kwei Wu Wang, B. S., National Central University (China), 1933.
Major Study—Agronomy
Thesis: "The Effect of Various Seed Treatments on the Viability of Cotton Seed and Their Relationship to Seedling Diseases."

Bachelor of Arts

In Liberal Arts (4)

Helmuth A. Bischoff
Alfred Pete Dowling
Albert Alexander Haegelin
Joe Potter

Bachelor of Science

In Agricultural Administration (10)

Wallis Hendricks Airhart
Reginald H. Finney, Jr.
Eddie Walsh Hogan
Joe L. McCreary
Samuel Augustus McMillan, Jr.
James B. Ramsey
Joe E. Routt
Raymond C. Till
Ralph L. Tipton
Clarence A. Walker

In Agricultural Education (4)

Thomas Leonard Edmondson
Seth Maurice Ford
Faron Marion Larner
Robert William Simmans, Jr.

In Agricultural Engineering (3)

Joseph H. Batjer
Thomas Grayson Campbell, Jr.
Hugh Curlee Carpenter

In Agriculture (11)

Jimmie Madison Blanks
Joe Weldon Bradley
C. W. Carter
William A. Cozart
Edward S. Hyman
Joe Beck Jackson
Charles Edgar Johnson
Morris S. Jones
Seiichi Sakamoto
O. B. Schwertner
Homer Lee Sears

In Civil Engineering (2)

Arthur Allen Briggs
Richard King

In Electrical Engineering (1)

Charles Adolphus Williams

In Industrial Education (1)

Joseph John Tapal, Jr.

In Landscape Art (2)

M. P. Payne
Harry Chester White

In Mechanical Engineering (1)

Harold Edmond Rose

In Petroleum Engineering (2)

Herbert Calaway
Thomas Joel Moore

In Physical Education (1)

William Edward Stages

In Science (1)

George N. Johnson

Doctor of Veterinary Medicine (1)

Paul M. Moore

DEGREES CONFERRED AT THE

SIXTY-SECOND ANNUAL COMMENCEMENT

June 3, 1938

Master of Science (25)

Rollin Harold Baker, B. A., University of Texas, 1937.
Major Study—Entomology
Thesis: "A Preliminary Investigation of the Insects of the Proposed Big Bend National Park, Brewster County, Texas."

Henry Tilden Bass, B. S., Agricultural and Mechanical College of Texas, 1936.
Major Study—Animal Husbandry
Thesis: "The Effect of Degree of Fatness and Length of Storage in Cooler on the Tenderness of Meat."

Stewart Bevan, B. S., Texas College of Mines and Metallurgy, 1933.
Major Study—Geology
Thesis: "The Stratigraphy, Composition, and Origin of the Tesnus Formation."

Albert Asa Blumberg, B. A., University of Texas, 1929.
Major Study—Mathematics
Thesis: "Certain Theorems Concerning the Measure of Linear Point Sets."

Louis Linden Carpenter, B. S., Agricultural and Mechanical College of Texas, 1933.
Major Study—Chemical Engineering
Thesis: "A Study of the Condensation of Propene and Isobutene with Benzene in the Presence of Anhydrous Ferric Chloride."

Tandy Prewitt Chenault, B. S., Morehead State Teachers College, 1936.
Major Study—Biology
Thesis: "A Phenological Study of Some Quail Food and Cover Plants in Brazos County, Texas."

Donald Christy, B. S., Kansas State Agricultural College, 1933.
Major Study—Agricultural Engineering
Thesis: "Effects of Soil Types on Practice in Spacing and on Maximum Length of Terraces."

Hollis Lee Cook, B. S., Stephen F. Austin State Teachers College, 1933.
Major Study—Education
Thesis: "A Study of Some Factors Which Migh Indicate Success in Freshman Mathematics."

Alvin Earl Covey, B. S., East Texas State Teachers College, 1928.
Major Study—Industrial Education
Thesis: "A Study of Safety in the Industrial Arts Woodworking Departments of the Public Schools of Texas."

George A. Derryberry, B. S., Agricultural and Mechanical College of Texas, 1937.
Major Study—Poultry Husbandry
Thesis: "A Comparison of the Feeding Value of Yellow Corn, Milo, Kafir, and Hegari in a Ration for Growing Chicks."

Woodrow W. Gandy, B. S., Agricultural and Mechanical College of Texas, 1936.
Major Study—Mathematics
Thesis: "Certain Problems in Conformal Mapping."

Phil D. Goodrum, B. S., Sam Houston State Teachers College, 1929.
Major Study—Wild Game
Thesis: "A Population Study of the Gray Squirrel, Sciurus Carolinensis Carolinensis, in Eastern Texas."

William Raymond Griffin, A. B., Baylor University, 1936.
Major Study—Mathematics
Thesis: "Overconvergence of a Sub-Sequence of a Power Series."

Lanoy Nelson Hazel, B. S., Texas Technological College, 1933.
Major Study—Genetics
Thesis: "A Statistical Study of the Accuracy of Swine Weights."

Thomas Aldon Hiett, B. S., North Texas State Teachers College, 1933.
Major Study—Chemistry
Thesis: "A Comparison of Methods of Bleaching Cottonseed Oil."

Daniel Wayne Lay, B. S., Agricultural and Mechanical College of Texas, 1936.
Major Study—Wild Game
Thesis: "Relations of Bobwhite Quail to Second-Growth Pine Woodland in Walker County, Texas.

Roger Valentine McGee, B. S., Agricultural and Mechanical College of Texas, 1922.
Major Study—Mathematics
Thesis: "Certain Theorems Concerning the Riemann and the Lebesgue Integrals."

Clarence Edward Manly, Jr., B. S., Agricultural and Mechanical College of Texas, 1936.
Major Study—Agricultural Economics
Thesis: "An Analysis of Farm Leases in the United States."

Lucian Minor Morgan, B. S., Agricultural and Mechanical College of Texas, 1935.
Major Study—Agricultural Economics
Thesis: "History of the Farmers' Consumer Cooperative Movement in the United States."

Chester Allen Price, B. S., Louisiana State University, 1936.
Major Study—Agronomy
Thesis: "The Effect of Hairy Vetch as a Green-Manure Crop on the Soil and on the Yield of Cotton."

Thomas Rollin Richmond, B. S., Agricultural and Mechanical College of Texas, 1931.
Major Study—Genetics
Thesis: "The Inheritance of Brown and Green Color in the Lint and Seed Fuzz of Upland Cotton."

Ralph Harold Sharpe, B. S., Pennsylvania State College, 1934.
Major Study—Horticulture
Thesis: "A Study of Certain Growth and Fruiting Responses of the Pecan."

Lee Price Thompson, B. A., University of Indiana, 1936.
Major Study—Physics
Thesis: "An Accoustical Survey of Guion Hall."

James McCall Ward, B. S., Agricultural and Mechanical College of Texas, 1924.
Major Study—Agricultural Economics
Thesis: "A Study of Farm Tenancy in the Black Waxy Belt of Texas with Particular Reference to Leasing Problems."

Kirk Deen Willingham, B. S., Sam Houston State Teachers College, 1927.
Major Study—Agricultural Education
Thesis: "An Analysis of Texas Experiment Station Investigations on Corn."

For the Professional Degree of Chemical Engineer (1)

Charles Wallis McMath, B. S., Agricultural and Mechanical College of Texas, 1929.
Thesis: "A Biological, Clinical and Chemical Study of a Flour Prepared from Cottonseed."

For the Professional Degree of Electrical Engineer (1)

Pierre Marcel Honnell, B. S., Agricultural and Mechanical College of Texas, 1930.
Thesis: "The Rectifier Method of Measuring Radio-Frequency Power."

For the Professional Degree of Mechanical Engineer (2)

Thomas Calhoun Bain, B. S., Agricultural and Mechanical College of Texas, 1927.
Thesis: "National Gas Installations in High Pressure Steam Boilers, Under 50 Horsepower, for Maximum Efficiency and Safety."

Hubert Francis Goodenough, B. S., Agricultural and Mechanical College of Texas, 1925.
Thesis: "A Study of the Development and Design of Certain Testing Instruments Pertaining to Orifice Meter Measurement of Gases."

Bachelor of Architecture

In Architecture (4)

John Wilson Floore
Thaddeus Edgar Harden, Jr.
Robert Edward Gustav Hucker
Paul Kenneth Walker

Bachelor of Arts

In Liberal Arts (35)

William Alvin Beinhorn, Jr.
Joseph Searcy Bracewell, Jr.
Wilbert Adair Calvert
Benard Gaston Christian
Edward Donald Coulson
Cecil Warner Crow
Lawrence M. Crow, Jr.
Robert Leonard Dalby
Charles F. Dibrell
H. Norman Duncan
Robert Andrew Murray Fasken
Thomas Champe Fitzhugh, Jr.
Paul Reginald Hable
John Binford Keeling
J. Frank Keeton
S. Thomas Keim, Jr.
John I. Kercheville, Jr.
Frederick Maedgen Knapp
Dana Buckley McInerney
James Corbett Miles
Donald Keith Morris
Thomas A. Murrah
James O. Nesrsta
Clarence Calvin Parker
Roger Adrian Pendery
Charles Leffler Rich
Joseph Guy Rollins, Jr.
Lee Joseph Shudde
Jack Ralston Singleton
Roy E. Smith
Sidney Burton Smith
James Elliott Thomas
William A. Thompson
L. G. Warren
C. B. Williams, Jr.

Bachelor of Science

In Agricultural Administration (92)

G. W. Adkisson, Jr.
Johnnie Lee Aldrich
Bellvin Jay Anthis
Richard Lewis Baggett
James Wilson Bennett
Reinhardt Bruno Boettcher, Jr.
John H. Bone
Wilton H. Bremer
Paul Denis Broussard, Jr.
Robert Gerald Cameron, Jr.
James C. Clary
Dale Powell Cleveland
Joe Jay Clonts, Jr.
Chester R. Cloudt
Julius Walker Cook
Barton W. D. Cordell
William Madison Counts
James Francis Crump
Brownrigg Hefferron Dewey, Jr.
Earl Douglass, Jr.
Charles Neely Draper, Jr.
John Ed Drinkard
Clarence Orville Drollinger
Burnie Galbraith Duke, Jr.
W. S. Edmonds
Ramon Conrado Estrada
Franklyn Thomas Fields
J. Herbert Finley
Edwin C. Garner
Charles Edward Gregory
Alton Arthur Hansen
Ledyard Gwin Harris
Addie Joss Hogan
Ralph C. Holmes
James Frank House
Wheeler Houston Hunt
Clifford C. Hyatt
De Harold Jackson
Clarence Joseph Jamail
Charles Williford Johnson
W. D. Claiborne Jones, Jr.
Jack C. Knox
J. C. LaGrone, Jr.
Jack Benton Lesh
Dan Vilas Litteer
Oscar Symms Long, Jr.
Sidney Tucker Lynch
George Robert McCulloch
Alfred H. McCutcheon
Harden Bryant McGrady
Arlis Dalton McKnight
William Gowin McNeill
Robert Charles Mackey
Charles Rufus Manning
Homer Clint Martin
Glenn R. Miller
John Clark Myers
Carl E. Patton, Jr.
Herbert L. Peavy
Gustavo Jose Pena
Harry Victor Pearcy
Anthony Johnson Phillips, Jr.
Lyndsay Graves Phillips
Wylie Robertson Phillips
Elmer Troxell Poutra
Alfred Lafayette Raney
Thomas Lee Redden
Allen Glenn Riley
James F. Roark
Joe Martin Robinson
James William Robison
William Tipton Roddy
Jack M. Rogers
Elbert B. Sale
Clarence John Schier
Arthur W. Schroeter
Frank William Schultz
Francis Mack Sherrill
Chester Arthur Slimp, Jr.
Lloyd Newton Smith
Cyril Mansell Statum
Paul Lamar Stephen
Henry Walter Stern
James Earl Thompson
Eugene Dunwood Tilley
Jack Wilson Tucker
Richard D. Vitek
Victor Manson Wallace
Daniel E. West
Howard Sigman White
Don Wesley Williams
Paul Russell Young

In Agricultural Education (55)

Gayle Darwin Adams
John Gilbert Allen
Charles Henry Bell
J. K. Bradshaw
Robert R. P. Brauchle
Orval Lee Burk
Winford W. Carter
Thos. B. Coe, Jr.
Arthur Henry Courtade
William Bryant Cowan, Jr.
Guy Melvin Dansby
Jess Eldridge Evans
Truman Earnest Fambrough
Harold Max Fitzhugh
Charles Vinto Gage
Thomas H. Gaither
Leslie Charles Gates
W. Raymond Gorman
Lyngle K. Gregory
Paul T. Hanes
Harold Hart
James Howard Horn
John Raliegh Jackson
Dennis Young Jarratt
Leroy Edgar Joyner, Jr.
Medford Earl Keath
Joe Thomas Locke, Jr.
Lewis Hickerson Marshall
Frank W. Mitchell
Richard David Mitchell
T. A. Parker, Jr.
Edwin L. Pierson
Robert C. Pope
J. C. Porter
D. G. Preston
R. J. Redford
Lelmer C. Reynolds
Walter L. Robert
Charles Scott Russell
Marion Alexander Shields
Paul C. Shillingburg
Henry Leon Slaughter
Malcolm Godfrey Slay
Jack Stinson

H. Gordon Swift
John Rutherford Stough
Uel Dee Thompson
Daniel Jackson Wallin
William Henry Walters
William Charles Wedemeyer
Morris C. Williams
James Hobson Williford
Lillard G. Wilmeth
Reece M. Wilson
Glenn Edwin Womack

In Agricultural Engineering (20)

John Charles Adams
Robert A. Betanzo
Elwin DeWitt Butler
Ben Ro Day
James T. Farquhar
Robert Jordan Finlay
Roy Curtis Garrett
Wayne H. Garrett
Frank Ross Gentry
Robert W. Gillespie, Jr.
Donald L. Grant
Jack A. Griffin
Raymond A. Higginbotham
Price Hobgood
Ernest L. Kerr
Robert L. McElroy
Jerry Regmund
Dave Termin, Jr.
Carol H. Thomas
Vernon C. Wiley

In Agriculture (93)

Woodrow Radford Allen
Theodore H. Andrews
Donald Elmo Armstrong
W. C. Askew
William R. Baggett, Jr.
Andrea Pernie Bailey
Joel R. Barton, Jr.
William Archie Bosse
Michael A. Boyd
James Edward Brewster, III
Nathaniel Britton
John Bryan
Wilson Bane Buckley
Edgard Beaumont Burgess
Eugene R. Carter
James D. Carter
Andrew Roy Cheek
Warren Elan Church
James Elmer Clark, Jr.
Frank Otis Cloudt
Thomas Elijah Cole
Jess Wilton Collier
J. C. Crutchfield
Joe Ray Cuffman
William Oliver Culbertson, Jr.
Seth Rogers Davenport
Floyd Basil Davis
Jack G. Davis
Franklin Honeycutt Dennis
James E. Dickinson
I. B. Duck, Jr.
Hubert Tom Duke
Wayne Oral Duncan
Rawleigh Smyth Elliott
Eldred L. Foster
James Harrison Francis
Noel Christie Fry
Ceaborn Harvey Goodwin, Jr.
Hugh Graham
Charles Vernon Griffin, Jr.
Joe Benjamin Guerra
Edwin Jay Gunn
William Arthur Gwin
Valton Hall
Garlon A. Harper
Edward B. Hawkins
Joseph Couch Hickerson
D. Walton Hicks
Ralph H. Hill
Wyatt Wade Hodges
Wesley E. Jacoby
Thomas Paxton Johnson
Robert Lee Jones
Appleton Doyle Justice
Perier A. Koenig
Jasper F. Koontz
Don Lee Lanford
Wayne Lee Little
Tot Milburn Love
Sidney L. Loveless
Charles Cooper McGill
H. Blevins McKenzie
Levi Jordan McNeill, Jr.
Curtis F. Maynard
William Joseph Moore
A. D. Morrow, Jr.
Louis Nagy
Alfred Lloyd Pace
Aubrey Basil Patterson
Cletus Ewing Peeler, Jr.
Wayman W. Percifull
Doyle M. Ranson
Bill Nat Rector
Lelmer C. Reynolds
John Sinclair Rogers
August Max Schmidt, Jr.
Ray Scruggs
Oscar A. Seward, III
Niley Judson Smith
Arnold Holle Spitzer, Jr.
Terrell H. Stewart
James Ceaphus Thompson, Jr.
John Wm. Tompkins
Roland S. Torn
Otto Gurvas Tumlinson
Lewis Dowe Vieman
George Laird von Roeder
Troy Parten Wakefield
Howard C. Ward
Clyde Henley Wells
Sanford Huey Whitehurst, Jr.
Durward Bundy Yarbrough
Herman Robert Yezak

In Architectural Engineering (4)

Archie Vivian Benner, Jr.
Guy H. Kissinger, Jr.
Doyle E. Miller
Paul Whitten Stephens

In Chemical Engineering (30)

William Hamblen Aiken
Harry Robert Arcularius
Robert Frederick Brockschmidt
Carroll O. Buttrill
Nugent Francis Chamberlain
Truman Frederick Cook
Lloyd Inge Crews
John Mitchell Dieb
Robert E. Fix
William Augustus Gaither
Roy Lee Gaskell, Jr.
James Hilton Griffin
Raymond Helpert
Bergen Brokaw Hovell
Monte Kaplan
Harvin Louis Landua
Albert Franklin Lay
Samuel W. Levine
Jack F. McCanne
Hermon W. McCoy
Wayne Elisha Meisenheimer
Oliver Osborn
Francis MacInerney Pate
James E. Pinney
Miguel Saldana Garcia
Jack Allen Skaggs
Alfred John Lawrence Toombs
Lloyd Donald Upshaw
John D. Whitesides
Jim Quinn Wood

In Civil Engineering (25)

George Barton Adams
Edwin Park Arneson, Jr.
Geo. W. Barnes, Jr.
Jack K. Cabaniss
Everett Cleveland Clark, Jr.
Paul Henderson Coleman
Robert Monroe Collie
Henry Wisdom Curington
John Edward Dershimer
John Russell Eidson, Jr.
Charles Bradford Foster, Jr.
Warren Alwin Grasso
Bennett Barron Hamner
Glen Hugh Harris
Noble David Jones, Jr.
Carroll King
Malcolm M. Long
John Otto McLeroy, Jr.
Lorenz E. Morris
Richard Leigh Powell
Malford C. Schraub
R. Marvin Shipman
Willard E. Simpson, Jr.
Jack A. Staley
George William West

In Education (3)

Kenneth Chambers
Louis Dale Freiberger
C. P. James

In Electrical Engineering (32)

Harry Guiden Austin, Jr.
A. Lester Betts
John Charles Conly
Paul Clendenen Davis
William Vincent Doyle
Merrill Kiellin Eriksen
Walter Frederick Gerdes
Bernard W. Giesen
Daniel Paul Green
Lanier C. Harris, Jr.
Thomas Kleberg Hughes
Homer H. Huskey
Enoch Gerald Jones
Jack R. Keeling
Jeptha Monroe Kent
Floyd Aubrey Lambert
Melvin M. Lawson
Robert Allan McElroy, Jr.
James F. Macphearson
Thomas Wesley Metz
A. B. Norton
Alonzo Wesley Oakley, Jr.
Earl G. Odell
Reginald Brown Pearce
John Riley Ridgway, Jr.
Bell Sample, Jr.
Harris W. Swan, Jr.
Lawrence Everett Twining
Donald McKee Vestal, Jr.
Ralph Folkert Vogt
George H. Wessler, Jr.
James Barclay Whitley

In Engineering Administration (3)

Henry J. Graeser, Jr.
Paul Manning Wiley
Clarence A. Wilson

In Geological Engineering (2)

James Ernest Wilson, Jr.
P. C. Schoenfeld

In Industrial Education (2)

Robert Eugene Mitchell
Tom Billie Strother

In Landscape Art (4)

Raymond F. Bean
Lee Curry, Jr.
Robert Henry Rucker
Louis Albert Shone, II

In Mechanical Engineering (32)

Albert Coleman Barker
John M. Bastion
Lothar Edward Berg
William Phillip Brennan, Jr.
James Griffis Brown
Chester Leroy Bugh
Bruce Burnet Campbell, Jr.
Landis Edward Cervenka
Nathan Ray Clark
Clem Brandon Connally
David Andrew Cook
Doyle Truitt Davis
Alden C. Dudley, Jr.
James Christopher Griffin, Jr.
Richard A. Grimmer, Jr.
Paul John, Jr.
Ricardo Kessler
Roy O. Klossner
Simeon T. Lake, Jr.
Gareld Eugene Marsh
Chester Felix Meyer
J. C. Morriss, Jr.
Thomas Ervin Sembera
Marion Wilson Sims
Robert Carl Smith
Yale E. Thompson
Thomas T. Turner, Jr.
Donald McKee Vestal, Jr.
Roy Stanley Weaver, Jr.
Richard Edison White
James T. Yardley
Charles Sanborn Yust

In Petroleum Engineering (23)

Benny Altman
Woodrow Morris Bell
Earl Everett Bowman
Arthur King Brown
Rufe S. Bynum, Jr.
Darrell E. Chandler
Orvil Wayne Crisman
Ezra Wilbur Drake
Walter Harlan Echols
Lawrence M. Eldridge, Jr.
William Allen French, Jr.
Virgil Byron Harris
Don M. Meabon
Olvin Frank Sebesta
Austen M. Shook
Carl Gerlach Sory
JoAlan Spears
E. A. Staples
William E. Stiles
John Rosser Van Slyke
Robert A. Wiley
Robert M. Williams
McGehee Word, Jr.

In Physical Education (1)

Chas. DeWare

In Rural Education (1)

L. B. T. Sikes

In Science (23)

Dan Wood Amsler
W. Kermit Anderson
R. H. Ballersedt
Martin Burow
Charles B. Calvin
Prentice Alvin Caraway
J. Harold Castleberry
Frederick Wilkins Dodson, Jr.
Frank Gensberg
Walter William Glass, Jr.
Ernest Moore Kimbrough
William Rozelle Knight, Jr.
Sidney L. Loveless
Walter S. McGregor, Jr.
Jack F. McKemie
Thomas Orval McMillan
Clarence Herbert Martin
Richard Irby Preuit
Pope Clayton Sapp
Fred L. Smith, Jr.
Fred Purnell Thomas
William Trabue
John E. Trott

Doctor of Veterinary Medicine (34)

Dan James Anderson
Willis William Armistead
Jamie Wilson Barton
Edwin A. Beckcom
William T. Bell
Paul Boren Blunt
George R. Burch, Jr.
Charles William Chadwick
Vernon Davis Chadwick
Russell R. Davis
John W. Evans
Carl Fink
Robert Dean Franks
Hardin Edward Gouge
Raymond T. Hander
Robert Henry Hartman
James Walter Heaton, Jr.
Doyle W. Hennessee
James E. Hill
William Warren Judson
John Tom Kirby
William Thomas Kirk
Abe Levy
Henry Keller Maier
George Bernard Meyer
Andrew A. Moore
Harry B. Naylor
William Dan Roberts
Darrell Bernard Sprott
Charles W. Tate
John Wilkey Taylor
George Oliver Thomas, Jr.
Paul M. Turman
Asa L. Walker

Certificate in Two Year Course, Cotton Marketing and Classing (5)

James C. Clary
William Gowin McNeill
George Robert McCulloch
Gustavo Jose Pena
Richard Robert Prewitt

DEGREES CONFERRED AUGUST 27, 1938

Master of Science (36)

John Carl Adams, B. S., Sam Houston State Teachers College, 1927.
Major Study—Education
Thesis: "A comparison of Problems and Costs in Transportation of School Children in Five East Texas Counties; Jasper, Newton, Tyler, Sabine, and Angelina."

Clarence Ashby, B. S., West Texas State Teachers College, 1931.
Major Study—Education
Thesis: "The Local Burden of School Support in the Public Schools of Grimes County, Texas, as shown by an Analysis of Income and Expenditures for 1936-37."

Victor Leo Ayres, B. S., Mississippi State College, 1935.
Major Study—Genetics
Thesis: "Hybrid Vigor in Gossypium Species."

Johnnie Hubert Barr, B. S., North Texas State Teachers College, 1928.
Major Study—Industrial Education
Thesis: "The Per Capita Cost of General Metal Materials in the Houston Junior High Schools."

Edward E. Bravenec, B. S., Agricultural and Mechanical College of Texas, 1936.
Major Study—Horticulture
Thesis: "An Attempt to Encourage Parthenocarpy in the Watermelon by Hermone Treatment."

Preston Earl Chaney, B. S., Agricultural and Mechanical College of Texas, 1936.
Major Study—Chemical Engineering
Thesis: "The Determination of Vapor Composition Curves by Means of the Photo-Electric Cell."

Tah Chang, B. A., University of Nanking, 1931; B. S., Nantung Agricultural College, 1935.
Major Study—Agronomy
Thesis: "A Study of the Development of Cotton Variety Testing Technique and a Statistical Analysis of Three Years Data from the Main Experiment Station Tests, College Station, Texas."

Thomas D. Cherry, B. S., Sam Houston State Teachers College, 1932.
Major Study—Agricultural Economics
Thesis: "A Study of the Financing of Cooperative Cotton Gin Association in Texas."

Howard Keith Dodgen, B. S., East Texas State Teachers College, 1933.
Major Study—Industrial Education
Thesis: "A Recommended Program in Industrial Arts for the Temple Public School System."

George Tyson Edds, B. S., Agricultural and Mechanical College of Texas, 1936, D. V. M., Agricultural and Mechanical College of Texas, 1936.
Major Study—Veterinary Physiology and Pharmacology
Thesis: "A Study of the Composition of the Alveolar Air of the Domestic Animals."

Jesse Earle Fox, B. S., Sam Houston State Teachers College, 1929.
Major Study—Agricu tural Education
Thesis: "Occupational Selections of Former Students of Vocational Agriculture in Ten Schools Where Vocational Agriculture Has been Taught Eight Years or Longer."

Verne Rey Glazener, B. S., Agricultural and Mechanical College of Texas, 1922.
Major Study—Poultry Husbandry
Thesis: "A Comparative Study of Two Systems of Feeding Baby Chicks in Battery Brooders."

Fred Gremmel, B. S., Agricultural and Mechanical College of Texas, 1934.
Major Study—Animal Husbandry
Thesis: "A Study of Coat Colors in Horses."

Charles Alexander Hall, B. S., University of Houston, 1935.
Major Study—Industrial Education
Thesis: "The Need for an Occupational Guidance Program for the Boys of the Sam Houston Senior High School, Houston, Texas."

Carl Cameron Johnston, B. S., Agricultural and Mechanical College of Texas, 1933.
Major Study—Electrical Engineering
Thesis: "Portable Seven Day Automatic Traffic Counter."

Henry Edward Kallina, B. S., North Texas State Teachers College, 1928.
Major Study—Industrial Education
Thesis: "A Proposed Vocational Education Program for the City of Victoria, Texas."

Herbert Weldon Leach, B. S., Agricultural and Mechanical College of Texas, 1934.
Major Study—Electrical Engineering
Thesis: "The Use of Visual Aid in Presenting the Theory of Travelling Waves."

Joseph Thurman Long, B. S., Agricultural and Mechanical College of Texas, 1923.
Major Study—Education
Thesis: "A Study of the Influence of Certain Broadening and Finding Courses on the Success of Students Graduated from Milby High School of Houston in 1937 and 1938."

Edwin Devere Luke, B. S., Agricultural and Mechanical College of Texas, 1937.
Major Study—Mechanical Engineering
Thesis: "The Effect of Carbon Content Upon the Cohesion and Angle of Limiting Friction of Low-Carbon Steels under an Applied Tensile Load."

Samuel Joseph Makeever, B. S., University of Illinois, 1930.
Major Study—Education
Thesis: "A Comparison of Expenditures of Large and Small Affiliated Public School Systems in Ten South Texas Counties for the year of 1935-36."

John Townsend Hinton Mize, B. S., Baylor University, 1934.
Major Study—Education
Thesis: "A Study of the Relation of General Intelligence to Musical Aptitude."

Homer Nicholas Morrow, B. S., Agricultural and Mechanical College of Texas, 1934.
Major Study—Chemical Engineering
Thesis: "The Isolation and Identification of Trimethylhydroquinone from a Petroleum Product."

Max Abe Mosesman, B. S., Agricultural and Mechanical College of Texas, 1936.
Major Study—Chemical Engineering
Thesis: "A Study of the Determination of the End-Point in Volumetric Analysis by Means of the Dielectric Constant."

Leo Charles Novak, B. S., Iowa State College, 1934.
Major Study—Civil Engineering
Thesis: "A Model Code for Wind Pressure on Structures."

J. R. Osborn, B. S. C. E., Purdue University, 1930.
Major Study—Civil Engineering
Thesis: "Methods of Stabilizing Road Soils."

Wayne T. Pratt, A. B., Baylor University, 1936.
Major Study—Rural Sociology
Thesis: "A Study of Changing Conditions Among the White-mountain Apache Indians."

Neal Malcolm Randolph, B. S., Agricultural and Mechanical College of Texas, 1934.
Major Study—Entomology
Thesis: "Life History and Habits of Nezara Viridula Linne."

Lewis Melvin Roberts, B. S., Agricultural and Mechanical College of Texas, 1936.
Major Study—Genetics
Thesis: "A Genetic and Histological Study of a Defective Endosperm Character in Maize."

Dwane Carson Rogers, B. S., East Texas State Teachers College, 1931.
Major Study—Industrial Education
Thesis: "A Study of the Types of Home Mechanics That Would Be of Benefit to High School Girls."

Willie Calvin Royle, B. S., Sam Houston State Teachers College, 1929.
Major Study—Horticulture
Thesis: "Methods of Propagating the Young Dewberry."

Oscar Theodore Ryan, B. S., Sam Houston State Teachers College, 1926.
Major Study—Agricultural Education
Thesis: "The Relationship Between Courses in Vocational Agriculture, Preparation of Teachers of Agriculture, and Types of Farming in the Three Types-of-Farming Areas in Northwest Texas."

Clifford Max Simmang, B. S., Agricultural and Mechanical College of Texas, 1936.
Major Study—Mechanical Engineering
Thesis: "The Effect of Heat Treatment on the Property of Cohesion in Plain Carbon Mild Steels."

Robert Morris Sowers, B. S., Sam Houston State Teachers College, 1933.
Major Study—Education
Thesis: "A Comparison of the Current Cost of the Different Types of Public Schools in Houston County for the School Year 1936-37."

George Townsend, B. S., Texas Technological College, 1936.
Major Study—Agricultural Economics
Thesis: "A Study of the Competitive Status of Four Texas Cotton Producing Regions."

Kenneth Gilmer Williams, A. B., Austin College, 1936.
Major Study—Physics
Thesis: "The Design and Testing of a Pneumatic Pyrometer."

Charles Herman Winkler, Jr., B. S., Agricultural and Mechanical College of Texas, 1934.
Major Study—Biology
Thesis: "A Survey of Two Hundred-Fifty College Students for Intestinal Helminths."

Bachelor of Arts

In Liberal Arts (4)

Arthur C. Decker, Jr.
Joe Noel Howard
Cecil Columbus Rockwell, Jr.
Marion Wilson Sims

Bachelor of Science

In Agricultural Administration (11)

J. Harry Bryant
Joe Riley Campbell
Robert Earl Dickson
Neil Bledsoe Harrison
William M. Holland
Harry C. Igo
Glenn Garland Null
William C. Ramsay
Tom M. Ruckman
Jacob C. Shockey
Horold E. Taylor, Jr.

In Agricultural Education (13)

George M. Crook
Fred C. Gibbs
Daniel Woodrow Graham
John Samuel Kuykendall
John V. Laird
Jesse H. Legett, Jr.
Marvin L. Myers
William McCoy Oliver
Walter Elzie O'Neal
Arvid V. Peterson
George Leroy Seitz
Thomas Stokes
R. I. Worthington

In Agricultural Engineering (6)

Humboldt Casad, Jr.
Charlie Harmon Case
Doyle F. Hammack
Herschel Voit Jones
Bob Shuler Smith
Edwin J. Zabcik

In Agriculture (15)

Wallace F. Basse
Robert Pogue Boswell
William Knight Boyd
William Gibbs Campbell
John Pierce Higginbotham
James T. Jones
George A. Kelt
Billy Meador
Roy C. Morrison
Robert R. Nelson
Fred T. Ross
Walter White Sadler
Johnny Fred Spreen
Clarence C. Vick, Jr.
Ollie Carlile Whitehead

In Civil Engineering (3)

Marvin M. Henry
Elton Philip Myers
Thomas Branch Skrla

In Education (1)

Wm. Grady Payne

In Electrical Engineering (7)

Charles Robert Baugh
Fred W. Clark, Jr.
Walter Ernest Fischer
Burton Randolph Frazier
Carl V. Green
John Peter Lorenz, Jr.
Billy Birk Rogers

In Engineering Administration (1)

Charles W. Walker

In Industrial Education (1)

Thomas McCauley Maxwell

In Mechanical Engineering (2)

Elmo E. Nachlinger
James S. Russell

In Petroleum Engineering (10)

William Clayton Best
Frank Bewley
Walter Joseph Bielstein
Walker Atwood Brooks
Thomas Markham Brown, Jr.
Leslie L. Cummings
Carl Basse Mueller
Richard Clay Slack
Everett L. Smith
Herbert Clay Wilson

In Physical Education (1)

Weldon Bailey Drennan

In Rural Education (2)

James Hulen Bills
Robert Eldon Caruthers

In Science (4)

L. P. Bristley, Jr.
Charles Russell Hillier
Kenneth O. Smith
Roy Young

Doctor of Veterinary Medicine (4)

Emmanuel Francis Coyle
Herschel Dodd Dorman
Charles Haggar
Joe G. Turner

Certificate in Two Year Course, Cotton Marketing and Classing (1)

Hugh Robert Primm

SUMMARY OF DEGREES CONFERRED

	1938 (Feb. 4, 1938 to Aug. 27, 1938)	Grand Total (1876-1938)
Advanced Degrees:		
M. S.	65	561
A. E.	—	1
Ch. E.	1	6
C. E.	—	17
E. E.	1	16
M. E.	2	16
Baccaluareate Degrees:		
School of Agriculture:		
B. S. A.	—	45
B. S. H.	—	5
B. S. in Horticulture	—	17
B. S. (Agriculture)	119	1,651
B. S. (Agri. Administration)	113	748
B. S. (Agri. Education)	72	374
B. S. (Agri. Engineering)	27	124
B. S. (Landscape Art)	6	48
Graduates (No Degrees)	—	9
School of Arts and Sciences:		
B. A.	43	304
B. S. (Education)	4	6
B. S. (Physical Education)	3	3
B. S. (Rural Education)	3	84
B. S. (Science)	28	195
Graduates (No Degrees)	—	32
School of Engineering:		
B. C. E.	—	71
B. M. E.	—	40
B. S. (Architecture)	—	225
B. A.	4	18
B. S. (Arch. Engineering)	4	43
B. S. (Chem. Engineering)	30	445
B. S. (Civil Engineering)	30	905
B. S. (Elec. Engineering)	40	937
B. S. (Eng. Administration)	4	4
B. S. (General Engineering)	—	1
B. S. (Geol. Engineering)	2	2
B. S. (Ind. Arts Education	—	36
B. S. (Industrial Education)	4	121
B. S. (Mech. Engineering)	35	701
B. S. (Pet. Engineering)	35	164
B. S. (Textile Engineering)	—	109
Graduates (No Degrees)	—	57
School of Veterinary Medicine:		
D. V. M.	39	146
Honorary Degrees:		
L. L. D.	—	2
TOTAL	716	8,289

DISTINGUISHED STUDENTS

Session 1937-38

At the end of each semester, students registered for sixteen hours or more who have a grade point ratio of 2.25 or higher and no grade below "C" are designated at "Distinguished Students". The numerals "1" and "2" designate the semester that the student was distinguished.

Freshman Class

Anderson, G. D., 2
Appelt, L. L., 1, 2
Becker, Wm. A., 1, 2
Bentinck, Geo. F., 1
Bissett, E. W., 2
Bloodworth, J. V., 2
Blum, Irwin P., 2
Bocquet, Philip E., 1
Bolding, A. P., 2
Browne, Ed P., 1, 2
Burney, Chas., 2
Byrd, Edwin E., 2
Cain, Joe H., 1
Carpenter, James M., 1
Chappell, Roy J., Jr., 1, 2
Childress, Jim B., 1
Christian, Averill L., 1
Cottle, John E., 1
Dahl, Keith W., 1, 2
Davis, Romie M., 1
Davis, T. C., 2
DeArmond, Geo. W., 1, 2
Dismukes, I. B., 2
Duce, Thomas E., 1
Elliott, Benton H., 1, 2
Evans, Joe E., 1
Fagin, Karl W., 1, 2
Ferguson, P. L., 2
Flynn, R. M., 2
Galt, Robert B., 1
Gentry, John B., 1
Giles, James P., 1, 2
Gillespie, H. W., 1
Grasshoff, L. H., 1, 2
Hamilton, A. V., 1, 2
Hausman, H. L., 1
Henderson, Randall, 1, 2
Higgins, T. P., 2
Hill, Richard G., 1
Hill, T. D., 1
Hoff, R. S., 1, 2
Holm, Emil G., 1
Humphrey, J. R., 1, 2
Hunter, Wm. M., 1
Hutchins, B. S., 1, 2
Innes, Jas. R., 1, 2
Isensee, C. T., 1
Ivey, E. H., Jr., 1
Janes, J. G., 1, 2
Kielman, F. S., 1, 2
Laird, J. V., 2
Landua, O. H., 2
Lewis, George R., 2
Lilly, C. A., 1
Loving, Frank A., 1, 2
Lynch, Robt. A., 1, 2
McCrary, J. W., 1, 2
McIntyre, Robert J., 1, 2
Marcia, A. F., 1, 2
Martin, A. M., 1, 2
Matchett, Chris R., 1, 2
Miller, Bryant W., 1
Minnock, Jack E., 1
Montgomery, Wm. J., 1, 2
Nassauer, Geo., Jr., 1
Nelson, Wm. R., 1
Nichols, Fred K., 1
Nisbet, R. E., 2
Odom, Malcolm W., 1
Oliver, Wm. M., 1
Padget, Alvin D., 1
Parker, Ralph W., 1
Pasche, Albert T., 1
Penrod, Boyce, Jr., 2
Phelan, Frank, 1, 2
Phillips. David, 1
Potts, Phil S., 1
Rafalsky, Lloyd, 1
Reynolds, G. H., 1, 2
Robertson, Lake, Jr., 1
Robinson, Ammon J., 1
Roesner, Earl H., 1
Rominger, James C., 1
Shea, Howard W., 1, 2
Shelton, James H., 1
Shiels, Earle A., 1
Shiels, Eugene F., 1
Shirley, William L., 1
Shoultz, J. C., Jr., 2
Smith, James C., 1
Snyder, Nate H., Jr., 1
Steed, Netum A., 1
Stitt, Ira B., 1
Talbot, H. G., 1, 2
Taylor, G. C., 1, 2
Tobias, Aubrey L., 1, 2
Tonkin, R. G., 1, 2
Townsend, George P., 1, 2
Walker, J. J., 1
Wehner, E. L., 1, 2
Weldon, C. L., 1
Wheeler, E. B., 1, 2
Williams, C. B., 2
Wilson, C. L., 1
Winsor, J. K., 1
Wood, G. F., 1
Zerr, John L., 2

Sophomore Class

Adams, Albert K., 1, 2
Adams, C. B., 1, 2
Adams, G. B., 1
Adams, L. J., 2
Allen, H. B., 2
Anderson, Mads C., 1, 2
Barron, H. T., 1
Bogan, Sidney, 2
Borer, M. H., 1
Bounds, W. A., Jr., 1
Browns, Joseph C., 1, 2
Burkett, A. L., 2

Buster, W. B., Jr., 1, 2
Butler, W. J., 1, 2
Caldwell, Roy, Jr., 1, 2
Cariker, George E., 2
Christian, Lavelle J., 1
Clay, J. A., Jr., 2
Colbath, D. L., 1, 2
Davidson, Roy H., 1
Davis, R. H., 1, 2
Doss, R. L., 2
Douglass, Ralph J., 1
Drolesky, E. A., 2
Dwyer, C. F., 2
Edwards, LeRoy W., 1
Feinstein, Matthew, 1
Fletcher, S. H., 2
Garrett, Edward G., 1
Gerlich, R. W., 1
Gillaspy, James E., 1, 2
Guy, W. T., 1, 2
Hamlett, E. H., 1
Hamorsky, K. R., 2
Harris, Tom D., 1, 2
Hearn, R. L., 1, 2
Helfand, Max, 1, 2
Herzing, D. J., 1, 2
Hingle, A. T., 1, 2
Inman, M. L., 1
Johnson, Chas. M., 2
Jones, Francis P., 1
Jones, H. A., 1, 2
Keller, W. O., 1
Kirvin, P. E., 2
Kluender, E. C., 1
Kyle, Charles R., 1
Lefkotsky, L. J., 1, 2
Lepon, E. L., 1, 2
Lewis, Elton, 1
Liebhofsky, H. H., 1, 2
Lingold, John C., 1
McFarland, Archie M., 1
Martin, Roy G., 2
Miller, Buck J., 1, 2
Miller, Howell D., 1, 2
More, Wm. R., 2
Motheral, J. R., 1, 2
Murray, Wm. H., 1, 2
Muska, F. R., Jr., 2
Muston, Claude G., 1
Osborn, Marshall L., 1
Packer, R. E., 2
Park, John D., 2
Patterson, W. B., 1, 2
Pepper, G. R., 2
Peterson, D. W., 2
Petty, Herman L., 1
Pool, F. M., 2
Puckett, J. R., 1, 2
Radeloff, R. D., 2
Reagor, A., Jr., 2
Rucker, H. L., 1, 2
Sanders, O. M., 2
Sandlin, Fred C., 1, 2
Schmidt, H. J., 1, 2
Schneider, C. C., 1, 2
Seitz, George L., 1, 2
Shanzer, Harold, 1, 2
Sharp, J. M., 2
Shiels, Robert T., 1
Sibeck, L. G., 2
Simels, N. G., 2
Slovick, Walter A., 1
Smith, William P., 1
Sparks, R. E., 1, 2
Stalheim, O. H., 1, 2
Stambaugh, C. K., 2
Thomson, F. C., 1, 2
Varner, D. B., 1, 2
Vittetoe, R. C., 1, 2
Wall, James E., 1, 2
Warner, A. M., 1
Watkins, R. R., 1
Wenmohs, M. J., 1
Williams, R. D., 1
Zahn, C. W., 2

Junior Class

Aughtry, James D., 1, 2
Bailey, John A., 1, 2
Baird, R. E., 2
Barnes, R. D., 2
Barnett, W. H., 1, 2
Barton, W. D., 1, 2
Bennett, Joe F., 1
Bennett, M. G., 2
Brown, Chas. W., 2
Butler, O D., 1, 2
Butler, Wm. J., 1, 2
Cajka, D. L., 1, 2
Campbell, Ed R., 1, 2
Carpenter, H. D., 1, 2
Carson, Floyd K., 1, 2
Cowley, W. R., 1, 2
Cravens, G. M., 1, 2
Curts, K. M., 2
Ehrke, R. H., 1, 2
Evans, Joe E., 2
French, E. C., 1, 2
Garrison, Otis L., 1
Glenn, J. C., 2
Goodloe, H. F., 1, 2
Graves, R. Wm., Jr., 1
Gregory, L. W., 2
Hagan, E. E., 2
Hargrove, B. D., 1
Helms, H. A., 2
Hoffman, H. J., 1, 2
Jackson, Joe B., 1
Jenson, J. G., 2
Jones, Bob R., 1, 2
Kaplowitz, S. R., 1
Kelly, J. L., 2
Keit, G. A., 2
Kluener, E. C., 2
Lewis, C. F., 1, 2
McCorquodale, D. B., 2
McCrory, Dorsey E., 1, 2
McNiece, R. V., 2
Magee, F. L., 2
Martin, D. F., 1, 2
Mathieu, L. G., 2
Maurer, John J., 1
Mazzagatti, R. P., 2
Payne, Herschel H., 1
Peeler, C. E., 1, 2
Pinchback, Rube T., 1
Price, M. A., 2
Prugel, J. A., 2
Quarles, Norman K., 1
Rice, J. C., 2
Rich, Charles L., 1
Rivers, E. D., 1, 2
Rogers, John S., 1
Rollins, A. P., 1, 2
Rutherford, J. A., 2
Sample, Ernest L., 1, 2
Sherrod, A. J., 1, 2

Spreen, John F., 2
Staples, George W., 1
Stephenson, W. W., 1, 2
Stern, Lonnie H., 1
Thompson, R. F., 1
Thrift, David B., 1
Thomas, Edwin W., 1
Tierstein, Victor, 1
Tiner, E. L., 1, 2
Wallace, M. D., 1
Ward, D. S., 1
Wells, R. A., 2
Wendler, C. C., 1, 2
White, E. M., 1

Senior Class

Armistead, W. W., 1, 2
Ballerstedt, R. H., 2
Baptista, F. G., 2
Barker, A. C., 1, 2
Beinhorn, W. A., 1
Black, J. J., 1
Bremer, W. H., 2
Brewster, J. E., 2
Britton, Nathaniel, 2
Brockschmidt, R. F., 2
Burrow, Martin, 2
Butler, E. D., 1, 2
Cameron, R. G., 1, 2
Campbell, J. R., 1
Caraway, Prentice A., 1
Carter, Claude W., 1
Castleberry, 1
Chamberlain, N. F., 1, 2
Clark, N. R., 2
Clearman, Hugh L., 1
Cleveland, D. P., 2
Cloudt, F. O., 2
Collie, Robert M., 1, 2
Conly, John C., 2
Cook, David A., 2
Coulson, E. D., 1, 2
Cowan, W. B., Jr., 1, 2
Crow, Cecil W., 1
Day, Ben R., 1, 2
Dieb, J. M., 2
Drollinger, C. O., 2
Echols, W. H., 2
Edmondson, T. L., 1
Fields, F. T., 1, 2
Fink, Carl, 1, 2
Fitzhugh, H. M., 2
Ford, Seth M., 1
Foster, Eldred L., 1
Francis, J. H., 2
Garrett, Roy C., 1
Gates, Leslie C., 2
Gentry, Frank R., 1, 2
Gerdes, W. F., 1, 2
Gibbs, Fred C., 1, 2
Gilchrist, F. U., 2
Glass, W. W., 1, 2
Graham, Hugh, 2
Grasso, W. A., 1, 2
Gregory, L. K., 1, 2
Griffin, J. A., 2
Gunn, E. J., 1
Hughes, T. K., 2
Hyatt, C. C., 2
Jarratt, D. Y., 1, 2
John, Paul, 1, 2
Jones, Noble D., 1, 2
Joyner, L. E., 1, 2
Judson, Wm. W., 2
Kaplan, Monte, 1, 2
Keeling, Jack R., 1, 2
King, Richard, 1
Landua, H. L., 1
Levy, Abe, 1, 2
McGregor, Walter S., 1, 2
McNeill, L. G., 2
Martin, H. C., 1, 2
Meyer, G. B., 2
Miller, Doyle E., 2
Moore, Wm. J., 1, 2
Morris, L. E., 2
Murrah, T. A., 1, 2
Naylor, H. B., 1, 2
Parker, T. A., 2
Pena, Gustavo J., 1
Pendery, R. A., 2
Phillips, Anthony J., 1
Porter, J. C., 1, 2
Potter, Joe, 1
Raney, A. L., 2
Ridgway, J. R., Jr., 2
Roark, J. F., 1, 2
Roberts, Wm. D., 2
Sakamoto, Seiichi, 1
Sample, Bell, Jr., 2
Sembera, T. E., 2
Shipman, R. M., 2
Sims, M. W., 1, 2
Skaggs, J. A., 2
Smith, B. S., 2
Smith, Roy E., 1, 2
Smith, S. B., 2
Thomas, F. P., 2
Thomas, J. E., 1, 2
Van Slyke, J. R., 1, 2
Von Roeder, G. L., 2
White, R. E., 1, 2
Wiley, R. A., 2
Wood, J. Q., 1
Yezak, H. R., 1, 2

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Harden, T. E., 2
Hucker, R. E., 2
Walker, P. K., 2

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