

Texas Technological College

BULLETIN

S I X T E E N T H

ANNUAL CATALOGUE

I 9 4 0 - I 9 4 I

ANNOUNCEMENTS 1941-1942

L U B B O C K , T E X A S

Information

The announcements, courses of instruction, and the teaching staff announced in this bulletin are subject to such changes as may be deemed necessary or advisable by the Administration.

Requests for bulletins, the college catalogue, or other information concerning college courses may be addressed to the Registrar, Texas Technological College, Lubbock, Texas; or requests may be directed to the President or respective deans of the divisions of the College as shown herein.

Inquiries concerning reservation of rooms in the College dormitories should be addressed to the Manager of Dormitories, Texas Technological College, Lubbock, Texas. Inquiries regarding room reservations with families in Lubbock should be addressed to the Chairman of the Student Housing Committee.

Additional publications available:

Engineering Bulletin

Bulletin on Graduate Study

Summer Session Bulletin

Bulletin on Correspondence Courses

Bulletin on Educational Motion Pictures

Bulletin on Textile Engineering

Bulletin on College Schedule of Classes (available
one week before classes begin)

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of the
Texas Technological College

Published Monthly

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with

Announcements For 1941-1942

TEXAS TECHNOLOGICAL COLLEGE

Lubbock, Texas

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August 24, 1912.

1941

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1942

JANUARY

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FEBRUARY

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SEPTEMBER

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OCTOBER

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NOVEMBER

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DECEMBER

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COLLEGE CALENDAR

SEVENTEENTH ANNUAL SESSION

1941-42

First Semester

1941		
Sept. 6	Saturday	Entering freshmen and transfer students submitting transcripts later than this date may be delayed in registration.
Sept. 8	Monday 10:00 A. M.	General Faculty Meeting.
Sept. 8-10	Monday-Wednesday	Preregistration consultations for all students.
Sept. 8-12	Monday-Friday	Payment of fees.
Sept. 9	Tuesday	Divisional Faculty Meetings.
Sept. 9-10	Tuesday-Wednesday	Entrance examinations for students not meeting the regular admission requirements. Those taking such examinations after these dates may do so only by paying a late fee of \$2.50.
Sept. 10	Wednesday	Departmental Staff Meetings.
Sept. 10	Wednesday 8:00 A. M.	College year begins. Dormitories open. First meal at noon.
Sept. 11-12	Thursday-Friday 8:00 A. M.	Registration. Fees must be paid before scheduling classes.
Sept. 13	Saturday 8:00 A. M.	Classes begin.
Sept. 14	Sunday 11:00 A. M.	Special sermon for students in Lubbock churches.
Sept. 16	Tuesday 5:00 P. M.	Late registration fee required after this time.
Sept. 17	Wednesday 10:00 A. M.	Opening Convocation for all faculty and students. Annual address of the president.
Sept. 17	Wednesday 11:00 A. M.	Student election of class officers for the year.
Sept. 19	Friday 8:00 P. M.	Open House for all students by the churches of Lubbock.
Sept. 19	Friday	Last day a student may register or add courses in first semester.
Sept. 20	Saturday 8:00 P. M.	Annual reception for all students and faculty by President and Administrative Council.
Oct. 4	Saturday	Last day for filing with Dean of Division requests to make up examinations missed or postponed, or to remove conditions incurred during the preceding spring semester if not already taken or made up.
Oct. 11	Saturday	Date for taking examinations referred to in preceding item.
Oct. 23	Thursday 5:00 P. M.	Progress reports for all freshman classes due in Registrar's office.
Oct. 25	Saturday	Parents' Day.
Nov. 8	Saturday	Annual Homecoming.
Nov. 11	Tuesday	Armistice Day. Members of College Band and R.O.T.C. Unit dismissed 10-12 A. M.

Nov. 13	Thursday 5:00 P. M.	Mid-semester reports on all students due in Registrar's office.
Nov. 20-24	Thursday-Sunday	Thanksgiving Holidays.
Dec. 20	Saturday 5:00 P. M.	Christmas Holidays begin.
1942		
Jan. 2	Friday 8:00 A. M.	Classes resumed.
Jan. 16-22	Friday-Thursday	Final examinations for first semester.
Jan. 21-27	Wednesday-Tuesday	Payment of fees for second semester.
Jan. 23-24	Friday-Saturday	Entrance examinations for students not meeting the regular admission requirements. Those taking such examinations after these dates may do so only by paying a late fee of \$2.50.
Jan. 26	Monday 8:00 A. M.	First semester ends.

Second Semester

Jan. 26	Monday 8:00 A. M.	Second semester begins.
Jan. 26-27	Monday-Tuesday	Registration. Fees must be paid before scheduling classes.
Jan. 28	Wednesday 8:00 A. M.	Classes begin.
Jan. 30	Friday 5:00 P. M.	Late registration fee required after this time.
Feb. 4	Wednesday	Last day a student may register or add courses in second semester.
Mar. 2-9	Monday-Sunday	Religious Emphasis Week
Mar. 4	Wednesday 10:00 A. M.	Student Religious Convocation
Mar. 27	Friday 5:00 P. M.	Mid-semester reports on all students due in Registrar's office.
Mar. 31	Tuesday 8:00 P. M.	Annual presentation of "The Seven Last Words of Christ" (by Dubois), oratorio conducted by Julien Blitz.
April 1	Wednesday 6:00 P. M.	Easter Holidays begin.
April 7	Tuesday 8:00 A. M.	Classes resumed.
April 23	Thursday 11:00 A. M.	Convocation for nomination of officers of the student body.
May 1	Friday	Last day for approval of thesis outline for June candidates.
May 11	Monday	First copy of thesis due.
May 12	Tuesday 5:30 P. M.	Women's Recognition Service.
May 22-28	Friday-Thursday	Final examinations for second semester.
May 29	Friday	Last day for submission of thesis for binding.
May 29	Friday 8:00 P. M.	Annual reception to graduating class and faculty by President and Mrs. Jones, President's home.
May 30	Saturday	General Faculty Meeting.
May 30	Saturday	Annual Alumni Banquet.
May 31	Sunday 8:00 P. M.	Baccalaureate Sermon.
June 1	Monday	Commencement Day. Long session ends.
June 3	Wednesday	Summer School begins.

OFFICIAL DIRECTORY

COLLEGE YEAR 1940-41

BOARD OF DIRECTORS

OFFICERS OF THE BOARD

*Joe T. Sneed, Jr., Chairman	Amarillo
**James M. West, Chairman	Houston
Spencer A. Wells, Vice-Chairman	Lubbock
Charles C. Thompson, Treasurer	Colorado
W. T. Gaston, Secretary	Lubbock

MEMBERS OF THE BOARD

Term Expires 1941

Mrs. W. R. Potter	Bowie
Tomas G. Pollard	Tyler
James M. West	Houston

Term Expires 1943

Mark McGee	Fort Worth
Spencer A. Wells	Lubbock
L. L. Steele	Mexia

Term Expires 1945

Milburn McCarty	Eastland
Charles C. Thompson	Colorado
*Joe T. Sneed, Jr.	Amarillo

COMMITTEES OF THE BOARD

Executive Committee

Milburn McCarty	Spencer A. Wells, Chairman	Tomas G. Pollard
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Building Committee

Mark McGee	*Joe T. Sneed, Jr., Chairman	Spencer A. Wells
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Local Affairs Committee

Charles C. Thompson	Spencer A. Wells, Chairman	*Joe T. Sneed, Jr.
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Finance Committee

Mrs. W. R. Potter	James M. West, Chairman	Charles C. Thompson
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Legislative Committee

Mrs. W. R. Potter	Mark McGee, Chairman	Milburn McCarty
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*Deceased October 15, 1940.

**Effective December 6, 1940.

OFFICERS OF ADMINISTRATION

The first date after the title indicates the year of first appointment to any position in the institution; the last, the year of appointment to present rank.

CLIFFORD B. JONES, LL. D., President, 1923, 1939.

Office, 215 Administration Building.

ARTHUR HENRY LEIDIGH, B. S., M. S., Dean of Division of Agriculture, 1925.

Office, 102 Agriculture Building.

OTTO VINCENT ADAMS, B. S. in C. and I. E., M. S. E., Dean of Division of Engineering, 1927, 1932.

Office, 202 Engineering Building.

MARGARET WATSON WEEKS, B. S., M. S., Dean of Division of Home Economics, 1925.

Office, 101 Home Economics Building.

JAMES MARCUS GORDON, B. A., M. A., LL. D., Dean of Division of Arts and Sciences; Director of Summer Session, 1925, 1939.

Office, 211 Administration Building.

ROBERT CABANISS GOODWIN, B. A., M. A., Ph. D., Dean of Division of Graduate Studies and Director of Scientific Research, 1930, 1938.

Office, 104 Chemistry Building.

WILLIAM CURRY HOLDEN, B. A., M. A., Ph. D., Dean and Director of Anthropological, Historical, and Social Science Research, and Curator of the West Texas Museum, 1929, 1938.

Office, 110 Administration Building.

MARY WOODWARD DOAK, B. A., M. A., Dean of Women, 1925.

Office, 107 Administration Building.

JAMES GEORGE ALLEN, B. A., M. A., Dean of Men, 1927, 1940.

Office, 114 Administration Building.

WILLIAM THOMAS GASTON, Business Manager and Secretary of Board of Directors, 1929.

Office, 102 Administration Building.

WARREN PERRY CLEMENT, B. A., M. A., Registrar, 1926, 1933.

Office, 111 Administration Building.

ELIZABETH HOWARD WEST, B. A., M. A., Librarian, 1925.

Office, 209 Library Building.

*FRANK ANDREW PETTIT, B. S., Captain, Corps of Engineers, United States Army; Professor of Military Science and Tactics, 1936.

Office, Military Science Building.

**BRUCE DOUGLAS RINDLAUB, B. S., B. S. in C. E., M. S., Captain, Corps of Engineers, United States Army; Professor of Military Science and Tactics, 1940.

Office, Military Science Building.

JULIUS FLAKE McDONALD, B. A., M. A., Director of Extension, 1926, 1940.

Office, 315 Administration Building.

HARRY LLEWELLYN KENT, A. B., B. S., M. S., LL. D., Administrative Assistant, 1937, 1939.

Office, 217 Administration Building.

*Transferred by War Department to duty with the Twenty-ninth Engineers, Portland, Oregon, October 29, 1940.

**Effective October 30, 1940.

OFFICERS AND ASSISTANTS IN THE COLLEGE

Names are arranged by departments of instruction in order of seniority. The first date after the title indicates the year of first appointment to any position in the institution; the last date, the year of appointment to present rank.

OFFICE OF THE PRESIDENT

CLIFFORD B. JONES, President, 1923, 1939.

LL. D., McMurry; LL. D., Texas Technological College.

HARRY LLEWELLYN KENT, Administrative Assistant, 1937, 1939.

A. B., Kansas State Teachers College, Emporia; B. S., M. S., LL. D., Kansas State College; LL. D., New Mexico.

EDITH LUCILE ROBINSON, Secretary to the President, 1924, 1937.

B. A., Simmons; M. A., Colorado.

RUBY JO POPEJOY, Assistant Secretary to the President, 1933, 1939.

B. A., Texas Technological College.

Division Of Agriculture

OFFICE OF THE DEAN

ARTHUR HENRY LEIDIGH, Dean of Agriculture and Professor of Agronomy, 1925.

B. S., Kansas State College; M. S., Agricultural and Mechanical College of Texas.

RUTH MAY CRAIG, Secretary to Dean of Agriculture, 1929, 1935.

AGRICULTURAL ECONOMICS, FARM MANAGEMENT AND RURAL SOCIOLOGY

ELMER LEON McBRIDE, Professor and Head Department of Agricultural Economics, Farm Management, and Rural Sociology, 1935, 1937.

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

MARSHALL BENTON HARRISON, Assistant Professor of Agricultural Economics, and Farm Management, 1936.

B.S.A., New Mexico Agricultural and Mechanical College; M. S., Kansas State College.

AGRICULTURAL EDUCATION

RAY LEON CHAPPELLE, Professor and Head Department of Agricultural Education, 1936, 1937.

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

T. L. LEACH, Associate Professor of Agricultural Education and Itinerant Teacher Trainer, 1937, 1939.

B. S., M. S., Texas Technological College.

OSCAR T. RYAN, Assistant Professor of Agricultural Education and Teacher Trainer, 1936.

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

L. JEANNE WINN, Secretary, Agricultural Education Department, 1926, 1935.

ANIMAL HUSBANDRY

WENZEL LOUIS STANGEL, Professor and Head Department of Animal Husbandry, 1925.

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

RAY CLIFFORD MOWERY, Professor of Animal Husbandry, 1926, 1935.

B. S., Agricultural and Mechanical College of Texas; M. S., Iowa State College.

FRED GEORGE HARBAUGH, Associate Professor of Animal Husbandry and Veterinarian, 1927, 1935.

B. S., D. V. M., Iowa State College.

NEIL CASEY FINE, Assistant Professor of Animal Husbandry, 1935, 1937.

B. S., Texas Technological College; M. S., Iowa State College.

J. D. STRICKLAND, Assistant Professor of Animal Husbandry, 1939.

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

DOLLIE CLEMENTS HARRIS, Secretary, Animal Husbandry Department, 1936.

B. S., M. A., Texas Technological College.

DAIRY MANUFACTURES

KENNETH MILLER RENNER, Professor and Head Department of Dairy Manufactures, 1927, 1931.

B. S., Iowa State College; M. S., Kansas State College.

MART G. PEDERSON, Associate Professor of Dairy Manufactures, 1932, 1939.

B. S., Texas Technological College; M. S., Kansas State College.

LAURENCE G. HARMON, Instructor in Dairy Manufactures and Creamery Superintendent, 1936.

B. S., Kansas State College; M. S., Texas Technological College.

BESSIE BAKER, Stenographer and Chief Clerk, Dairy Manufactures Department, 1940.

PLANT INDUSTRY

ARTHUR W. YOUNG, Professor of Agronomy and Head Department of Plant Industry, 1935, 1938.

B. S., M. S., Ph. D., Iowa State College.

ORVILLE BRACKETT HOWELL, Professor of Horticulture, 1935, 1937.

B. S., M. S., Michigan State College.

ARTHUR HENRY LEIDIGH, Professor of Agronomy, 1925.

B. S., Kansas State College; M. S., Agricultural and Mechanical College of Texas.

WARREN WATSON YOCUM, Associate Professor of Horticulture, 1937.

B. S., State Teachers College, Kirksville, Missouri; M. A., Missouri; Ph. D., Nebraska.

HENRY PENNOCK CLAY, Assistant Professor of Agricultural Engineering, 1935.

B. S., Michigan State College.

EARL TAYLOR DUKE, Assistant Professor of Agronomy, 1937, 1939.

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

ERNEST MADER, Instructor in Agronomy and Research Assistant, 1939, 1940.

B. S., Oklahoma Agricultural and Mechanical College.

GEORGE O. ELLE, Instructor in Horticulture, 1938, 1940.

B. S., Oregon State College.

Division Of Engineering

OFFICE OF THE DEAN

OTTO VINCENT ADAMS, Dean of Engineering and Professor of Civil Engineering 1927, 1932.

B. S. in C. and I. E., Colorado State College; M. S. E., Michigan.

GEORGINA CONNER, Secretary to the Dean of Engineering, 1931, 1932.

B. A., New Mexico.

DOROTHY JANE RYLANDER, Librarian of Engineering Division and Secretary to Engineering Faculty, 1932.

B. A., M. A., Texas Technological College.

ARCHITECTURE AND ALLIED ARTS

FLORIAN ARTHUR KLEINSCHMIDT, Professor and Head Department of Architecture and Allied Arts, 1928.

B. S. in Arch., Minnesota; M. in Arch., Harvard; Diplome d'Architecture Ecole des Beaux Arts Americaine, Fontainebleau, France.

WELDON LEROY BRADSHAW, Associate Professor of Architectural Engineering, 1938.

B. S. in Architecture, Agricultural and Mechanical College of Texas.

ROBERT IVAN LOCKARD, Assistant Professor of Architecture and Allied Arts, 1935.

B. S. in Arch., M. S. in Arch., Kansas State College.

EDNA HOUGHTON, Instructor in Architecture and Allied Arts, 1932, 1933.

B. S. in A. E., Texas Technological College.

RAMOND HENDRY WILLIAMS, Instructor in Architecture and Allied Arts, 1938, 1939.

B. S., Utah; M. S., Wisconsin.

CHEMICAL ENGINEERING

ROBERT CABANISS GOODWIN, Professor and Head Department of Chemical Engineering, 1930, 1938.

B. A., Howard Payne; M. A., Texas; Ph. D., Harvard.

VALERIE SCHNEIDER, Associate Professor of Chemical Engineering, 1934.

B. S. in Ch. E., M. S. in Ch. E., Texas; Sc. D., Massachusetts Institute of Technology.

AARON GUSTAF OBERG, Assistant Professor of Chemical Engineering, 1936, 1939.

B. S. in Ch. E., M. S., Ph. D., Colorado.

CIVIL ENGINEERING

JAMES HAROLD MURDOUGH, Professor and Head Department of Civil Engineering, 1925, 1927.

S. B. in C. E., Massachusetts Institute of Technology; M. S. E., Michigan.

OTTO VINCENT ADAMS, Professor of Civil Engineering, 1927, 1932.

B. S. in C. and I. E., Colorado State College; M. S. E., Michigan.

FITZHUGH LEE McREE, Associate Professor of Civil Engineering, 1927, 1935.

B. S. in C. E., M. S. in C. E., Texas.

GORDON WIGHT PARKHILL, Associate Professor of Civil Engineering, 1932, 1935.

B. S. in C. E., Agricultural and Mechanical College of Texas.

***EWEL VENARD MIDDLETON**, Assistant Professor of Civil Engineering, 1937, 1939.

B. S. in C. E., Texas Technological College.

CHARLES GARFIELD DECKER, Instructor in Civil Engineering, 1938.

B. S., M. S. in C. E., Michigan.

J. FENTON HARDING, Instructor in Civil Engineering, 1939.

B. S., in C. E., Texas Technological College; M. S. in C. E., Armour Institute of Technology.

****LEO V. NOTHSTINE**, Instructor in Civil Engineering, 1940.

B. S. in C. E., Michigan State College; M. S., Engr., Kansas State College.

ELECTRICAL ENGINEERING

CHARLES VICTOR BULLEN, Professor and Head Department of Electrical Engineering, 1932.

B. S. in E. E., Texas; M. S. in E. E., Massachusetts Institute of Technology.

*On leave 1940-41 Long Session.

**Temporary Appointment, 1940-41.

WILLIAM FRANK HELWIG, Professor of Electrical Engineering 1928, 1935.
B. S. in E. E., Minnesota; M. S. in E. E., Texas; E. E., Minnesota.

WILLARD FRANKLIN GRAY, Assistant Professor of Electrical Engineering, 1937, 1939.

B. S. in E. E., Texas Technological College; M. S. in E. E., Agricultural and Mechanical College of Texas.

INDUSTRIAL ENGINEERING AND ENGINEERING DRAWING

OSCAR ALLEN ST. CLAIR, Professor and Head Department of Industrial Engineering and Engineering Drawing, 1934.

B. S. in E. E., Armour Institute of Technology.

WILLIAM EZRA STREET, Associate Professor of Engineering Drawing, 1928, 1939.

B. S. in E. E., M. A., Texas Technological College.

CONNER COLUMBUS PERRYMAN, Associate Professor of Engineering Drawing, 1929, 1940.

B. S., North Texas State Teachers College.

MARGARET BRASHEARS ATKINSON, Instructor in Engineering Drawing, 1934.

B. S., Texas State College for Women.

***EUGENE F. HEBRANK**, Instructor in Industrial Engineering, 1940.

B. S. in M. E., Stevens Institute of Technology.

****CECIL S. J. PHILLIPS**, Special Instructor for Engineering Defense Training in Production Engineering, 1941.

B. S., Cincinnati; M. S., Columbia.

MECHANICAL ENGINEERING

HARRY FREDERICK GODEKE, Professor and Head Department of Mechanical Engineering, 1930.

B. S. in M. E., M. E., M. S., Illinois.

HAROLD L. KIPP, Associate Professor of Mechanical Engineering, 1938.

B. S. in M. E., M. S. in M. E., Nebraska.

JOHN COYNE HARDGRAVE, Associate Professor of Mechanical Engineering, 1926, 1939.

ROBERT P. VAIL, Assistant Professor of Mechanical Engineering, 1937, 1939.

B. M. E., M. S. in M. E., Minnesota.

*****CLOVIS GREEN**, Instructor in Mechanical Engineering, 1936, 1939.

B. A., B. S. in M. E., Texas Technological College.

******AUDRA WOOD REGER**, Instructor in Mechanical Engineering, 1940.

B. S. in M. E., West Virginia.

*******JAMES RICHARD VAN DYKE**, Special Instructor in Ground School Advanced Civil Aeronautics, 1941.

B. S. in M. E., M. E., Pennsylvania State College.

PETROLEUM ENGINEERING

LEROY THOMPSON PATTON, Professor and Head Department of Petroleum Engineering, 1925.

B. A., Muskingum; B. S., Chicago; M. S., Ph. D., Iowa.

CLIFFORD R. HORN, Instructor in Petroleum Production Engineering, 1940.

Pet. Engr., Colorado School of Mines; M. S., Pennsylvania State College.

*Effective October 3, 1940.

**Effective February 17, 1941.

***On Leave Long Session 1940-41.

****Temporary Appointment, Long Session 1940-41.

*****Effective February 17, 1941.

TEXTILE ENGINEERING

ROLAND L. LEE, JR., Professor and Head Department of Textile Engineering, 1940.

B. S., Clemson; M. S., North Carolina State College.

CASSIUS MILLER STANLEY, JR., Assistant Professor of Textile Engineering, 1937.

B. S. in T. E., Alabama Polytechnic Institute.

LEWIS B. THOMAS, Instructor and Mechanician, 1940.

B. S. in T. E., Alabama Polytechnic Institute.

Division Of Home Economics**OFFICE OF THE DEAN**

MARGARET WATSON WEEKS, Dean of Home Economics and Professor of Nutrition, 1925.

B. S., M. S., Columbia.

ANNA BURT GIBSON, Secretary to the Dean of Home Economics, 1933.

APPLIED ARTS

MARTYE POINDEXTER, Professor and Head Department of Applied Arts, 1935.

Ph. B., Chicago; M. A., Texas State College for Women.

ELIZABETH HAWLEY, Assistant Professor of Applied Arts, 1934, 1937.

B. A., Oberlin; M. A., Columbia.

HELEN TROY ALLEN LOCKARD, Instructor in Applied Arts, 1937.

B. S., M. A., Texas State College for Women.

CLOTHING AND TEXTILES

MABEL DEANE ERWIN, Professor and Head Department of Clothing and Textiles, 1926.

B. S., Purdue; M. A., Columbia.

EDNA WALKER BUSTER, Associate Professor of Clothing and Textiles, 1927, 1937.

B. S., Texas State College for Women; M. A., Columbia.

EDNA A. LYLES HEINEMAN, Assistant Professor of Clothing and Textiles, 1937.

B. S., Iowa State College.

JOSEPHINE LOONEY, Assistant Professor of Clothing and Textiles, 1933, 1940.

B. S., Minnesota; M. A., Columbia.

LILA ALLRED, Instructor in Clothing and Textiles, 1939.

B. S., M. S., Texas Technological College.

FOODS AND NUTRITION

JONNIE HEMPHILL McCRERY, Professor and Head Department of Foods and Nutrition, 1925.

B. S., M. A., Columbia.

MARGARET WATSON WEEKS, Professor of Nutrition, 1925.

B. S., M. S., Columbia.

MAYME LUCINDA TWYFORD, Associate Professor of Foods and Nutrition, 1928.

B. S., West Virginia; M. A., Columbia.

MINA MARIE WOLF, Assistant Professor of Foods and Nutrition, 1940.

B. A., M. S., Texas Technological College.

ELLEN KLEPPE, Instructor in Foods and Nutrition, 1936.

B. A., St. Olaf College; M. S., Iowa State College.

HOME ECONOMICS EDUCATION

ADA VIVIAN JOHNSON, Professor and Head Department of Home Economics Education, 1928, 1937.

B. S., Southwest Texas State Teachers College; M. A., Columbia.

***GERALDINE CLEWELL**, Assistant Professor of Home Economics Education, 1935, 1940.

B. S., Texas Technological College; M. S., Iowa State College.

****ILSE HILDEGARDE WOLF**, Itinerant Teacher Trainer, 1939.

B. S., Texas Technological College; M. Ed. in H. E. Ed., Texas.

JOHNE BOWLES, Instructor in Home Economics Education, 1940.

B. A., Louisiana State Normal College; M. S., Iowa State College.

VERNA CRUMP, Secretary, Home Economics Education Department, 1937.

B. S., Texas Technological College.

HOME MANAGEMENT

MARGARET WATSON WEEKS, Professor and Head Department of Home Management, 1925.

B. S., M. S., Columbia.

DORIS HITTLE, Assistant Professor of Home Management, 1940.

B. A., Iowa; Dietetic Diploma, Indiana; M. A., Columbia.

INSTITUTIONAL MANAGEMENT

MOZELLE EUGENIA CRADDOCK, Manager and Dietitian of the Dormitories; Professor and Head Department of Institutional Management, 1934.

B. S., Texas; M. A., Chicago.

CHILD DEVELOPMENT AND FAMILY RELATIONS

SANNIE CALLAN, Professor and Head Department of Child Development and Family Relations, 1936, 1937.

B. S., Pittsburgh; M. A., Columbia.

Division Of Arts And Sciences**OFFICE OF THE DEAN**

JAMES MARCUS GORDON, Dean of Arts and Sciences, Acting Head Department of Philosophy and Sociology, Director of Summer Session, 1925, 1939.

B. A., Trinity; M. A., Chicago; LL. D., Trinity.

ALBERT BARNETT, Assistant Dean of Arts and Sciences, Professor of Education and Psychology, 1933, 1939.

B. S., M. A., Ph. D., Peabody College.

PEARL HARRISON SMITH, Secretary to the Dean of Arts and Sciences, 1927, 1938.

*****LALLA D'SPAIN**, Assistant Secretary to the Dean of Arts and Sciences, 1937.

B. A., North Texas State Teachers College; M. A., Texas Technological College.

******MARGARET YOUNG GRAY**, Assistant Secretary to the Dean of Arts and Sciences, 1940.

BIOLOGY

RICHARD ARTHUR STUDHALTER, Professor and Head Department of Biology, 1925.

B. A., Texas; M. A., Washington University; Ph. D., Chicago.

*Resigned, Effective March 1, 1941.

**Assistant Professor of Home Economics Education after March 1, 1941.

***Resigned, Effective November 5, 1940

****Effective November 12, 1940.

EDWARD LOOMAN REED, Professor of Botany, 1926, 1929.

B. A., Oklahoma Baptist College; M. S., Ph. D., Chicago.

MILTON FREDERIC LANDWER, Associate Professor of Zoology, 1927.

B. S., Northwestern; M. A., Nebraska; Ph. D., Michigan.

BESSIE BEAKLEY LEAGUE, Associate Professor of Zoology, 1926, 1927.

B. A., M. A., Ph. D., Texas.

JESSIE Q. SEALEY, Assistant Professor of Bacteriology, 1928.

B. A., M. A., Texas.

HAROLD M. HEFLEY, Instructor in Biology, 1939.

B. S., M. S., Ph. D., Oklahoma.

DEAN ROBERTS PARKER, Instructor in Biology, 1939.

B. A., Ph. D., Texas.

ARLO I. SMITH, Instructor in Biology, 1940.

A. B., Hendrix College; M. S., Northwestern; Ph. D., Washington.

CHEMISTRY

ROBERT CABANISS GOODWIN, Professor and Head Department of Chemistry, 1930, 1938.

B. A., Howard Payne; M. A., Texas; Ph. D., Harvard.

WILLIAM MOORE CRAIG, Professor of Chemistry, 1926.

B. A., M. A., Southwestern; M. A., Texas; Ph. D., Harvard.

WILLIAM MACKEY SLAGLE, Associate Professor of Chemistry, 1926, 1937.

B. A., Southwestern; M. A., Texas.

HULDA WILD MARSHALL, Assistant Professor, 1925, 1937.

B. A., Texas; M. A., Texas Technological College.

CHARLES CHRISTOPHER GALBRAITH, Instructor in Chemistry, 1929, 1934.

B. S., Trinity.

FREDERICK WILLIAM ROLF, Instructor in Chemistry, 1937.

B. A., Augustana College; M. S., Ph. D., Iowa.

JOE DENNIS, Instructor in Chemistry, 1938.

B. A., Austin College; M. A., Texas.

ROBERT ROWAN, JR., Instructor in Chemistry, 1940.

B. S., West Texas State Teachers College; Ph. D., Illinois.

ECONOMICS AND BUSINESS ADMINISTRATION

JOHN ORVAL ELLSWORTH, Professor and Head Department of Economics and Business Administration, 1928, 1937.

B. S., Utah State Agricultural College; M. S., Ph. D., Cornell.

TRENT CAMPBELL ROOT, Professor of Economics and Business Administration, 1926, 1937.

B. A., Baylor; M. B. A., Harvard.

ELLSWORTH HARVEY PLANK, Professor of Economics and Business Administration, 1933, 1934.

B. S., M. S., Oregon; Ph. D., Stanford.

JAMES I. KILPATRICK, Part-time Professor of Business Law, 1938.

LL. B., Texas; Member, Board of Directors of Texas State Bar Association.

THOMAS F. WIESEN, Associate Professor of Economics and Business Administration, 1940.

B. S., Agricultural and Mechanical College of Texas; M. B. A., Pennsylvania.

MAMIE WOLFFARTH JACKSON, Assistant Professor of Typewriting and Stenography, 1928, 1938.

B. A., M. A., Texas Technological College.

REGINALD RUSHING, Assistant Professor of Economics and Business Administration, 1939, 1940.

B. A., Southwestern; M. B. A., Texas.

MAURICE JACK ERICKSON, Assistant Professor of Economics and Business Administration, 1936, 1940.

B. A., Kansas; M. A., Nebraska.

HASKELL GRANT TAYLOR, Instructor in Economics and Business Administration, 1937.

B. B. A., M. A., Texas Technological College.

HUGH ALLEN ANDERSON, Instructor in Economics and Business Administration, 1939.

B. A., M. A., Simmons University.

MARY LOUISE MIDDLETON, Instructor in Typewriting and Stenography, 1936.

B. A., Texas Technological College.

JOHN ELZIE HARDING, Instructor in Economics and Business Administration, 1937.

B. A., Howard Payne; M. A., Texas Technological College.

EDUCATION AND PSYCHOLOGY

ARTHUR WILSON EVANS, Professor and Head Department of Education and Psychology, 1925.

B. A., Oxford College; M. A., Ph. D., Texas.

RAYMOND ERNEST GARLIN, Professor of Education, 1927.

B. A., M. A., Ph. D., Texas.

ALBERT BARNETT, Professor of Education and Psychology, 1933, 1939.

B. S., M. A., Ph. D., Peabody College.

BONNIE KATHERINE DYSART, Associate Professor of Education and Psychology, 1927, 1928.

B. S., M. A., Texas.

JAMES THOMAS SHAVER, Associate Professor of Education, 1927.

B. S., Sam Houston State Teachers College; M. A., Columbia.

DOYLE D. JACKSON, Associate Professor of Education, 1934.

B. A., M. A., Texas; Ph. D., Arizona.

AGNES ANN TRUE, Associate Professor of Education and Psychology, 1934, 1940.

B. A., M. A., Ph. D., Michigan.

LEWIS B. COOPER, Associate Professor of Education and Psychology, 1938.

B. S., North Texas State Teachers College; M. A., Texas; Ph. D., Cincinnati.

ENGLISH

WILLIAM BRYAN GATES, Professor of English, Chairman of Committee-in-Charge, 1925, 1940.

B. S., Millsaps; M. A., Vanderbilt; M. A., Michigan; Ph. D., Pennsylvania.

RUFUS ARTHUR MILLS, Professor of English, Member of Committee-in-Charge, 1926, 1939.

B. A., M. A., Texas.

ALBERT BENJAMIN CUNNINGHAM, Professor of English, Member of Committee-in-Charge, 1929, 1939.

B. A., Muskingum; B. D., Drew; M. A., Ph. D., New York; Litt. D., Lebanon.

GEORGE SMALLWOOD, Professor of English, 1925.

B. A., Southwestern; M. A., Southern Methodist University.

ALAN LANG STROUT, Professor of English, 1928, 1937.

B. A., Dartmouth; M. A., Chicago; M. A., Wisconsin; Ph. D., Yale.

MARY WOODWARD DOAK, Professor of English, 1925.

B. A., Texas; M. A., Texas Technological College.

JAMES GEORGE ALLEN, Professor of English, 1927, 1940.

B. A., Southern Methodist University; M. A., Harvard.

DONALD VAN DALE MURPHY, Associate Professor of English, 1926, 1935.

B. A., Tulsa; M. A., Columbia.

ALAN MURRAY FINLAY GUNN, Associate Professor of English, 1939.

A. B., Huron College; M. A., Denver; Ph. D., Princeton.

GUSSIE LEE TEAGUE, Assistant Professor of English, 1926, 1937.

B. A., Oklahoma; M. A., Colorado.

LUCILE AVO POWELL GILL, Assistant Professor of English, 1926, 1937.

B. A., M. A., Texas.

TRUMAN WILDES CAMP, Assistant Professor of English, 1935, 1939.

B. A., Ph. D., Yale.

RUTH HORN, Assistant Professor of English, 1932, 1939.

B. A., M. A., Texas Technological College.

ONEIDA KENNEDY, Instructor in English, 1937.

B. A., Baylor; M. A., Columbia.

FRED GRIFFIN, Instructor in English, 1937, 1938.

B. A., M. A., Texas Technological College.

JOHN ARNOLD WALTER, Instructor in English, 1938.

B. A., M. A., Texas Technological College.

OLGA M. CARTER, Instructor in English, 1939.

B. A., Dickinson College; M. A., Chicago.

L. MOFFITT CECIL, Instructor in English, 1940.

A. B., Wofford College; M. A., Duke.

FOREIGN LANGUAGES

CHARLES BLAISE QUALIA, Professor and Head Department of Foreign Languages, 1925, 1937.

B. A., M. A., Ph. D., Texas.

*FRANCES WHATLEY, Associate Professor of Spanish, 1925.

B. A., M. A., Texas.

CARL HENNINGER, Associate Professor of German, 1926, 1929.

B. A., Indiana; M. A., Illinois.

EUNICE JOINER GATES, Associate Professor of Spanish, 1925, 1937.

B. A., M. A., Southwestern; M. A., Michigan; Ph. D., Pennsylvania.

ALFRED BELL STREHLI, Assistant Professor of Spanish, 1928.

B. A., B. S., M. A., Ohio State.

GEORGIA WILSON DINGUS, Assistant Professor of Latin, 1929, 1931.

B. A., Texas; M. A., Texas Technological College.

DOUGLAS WILLIAM ALDEN, Instructor in French, 1938.

A. B., Dartmouth; A. M., Ph. D., Brown.

**T. EARLE HAMILTON, Instructor in Spanish, 1940.

A. B., A. M., Southern Methodist University; Ph. D., Texas.

GEOLOGY

LEROY THOMPSON PATTON, Professor and Head Department of Geology, 1925.

B. A., Muskingum; B. S., Chicago; M. S., Ph. D., Iowa.

*On Leave Long Session 1940-1941.

**Temporary Appointment.

MERRILL ADDISON STAINBROOK, Professor of Geology, 1927, 1937.
B. A., M. S., Ph. D., Iowa.

WILBUR IRVING ROBINSON, Associate Professor of Geology, 1928.
B. S., M. S., Michigan; Ph. D., Yale.

RAYMOND GILBERT SIDWELL, Associate Professor of Geology, 1928, 1939.
B. A., M. A., Ph. D., Iowa.

WALDO S. GLOCK, Assistant Professor of Geology, 1938, 1939.
B. A., Iowa; Ph. D., Yale.

GOVERNMENT

HARDISON CECIL PENDER, Professor and Acting Head Department of Government, 1926, 1938.
B. A., North Texas State Teachers College; M. A., Baylor.

***MONTELL ERNEST OGDEN**, Professor of Government, 1929, 1938.
B. A., Illinois; M. A., Ph. D., Columbia.

J. W. JACKSON, Associate Professor of Government, 1929, 1939.
B. A., M. A., Texas Technological College.

JAMES WILLIAM DAVIS, Instructor in Government, 1938.
B. A., Agricultural and Mechanical College of Texas; M. A., Ph. D., Texas.

L. C. RIETHMAYER, Instructor in Government, 1938.
B. A., M. A., Texas Technological College.

****EUGENE BENTON**, Instructor in Government, 1940.
B. A., M. A., Texas Technological College.

****BENJAMIN BOCK**, Instructor in Government, 1940.
B. S., College of the City of New York; M. A., George Washington University; Ph. D., Stanford.

****LLOYD CROSLIN**, Part-time Instructor in Government, 1940.
B. A., M. A., Texas Technological College; LL. B., Georgetown University.

HISTORY AND ANTHROPOLOGY

WILLIAM CURRY HOLDEN, Professor and Head Department of History and Anthropology, Member, Committee-in-Charge, 1929, 1938.
B. A., M. A., Ph. D., Texas.

SETH SHEPARD McKAY, Professor of History, Chairman, Committee-in-Charge, 1928, 1940.
B. A., M. A., Texas; Ph. D., Pennsylvania.

CHARLES DUDLEY EAVES, Professor of History, Member, Committee-in-Charge, 1925, 1940.
B. A., Texas; M. A., Chicago.

OSCAR ARVLE KINCHEN, Professor of History, 1929, 1939.
B. A., M. A., Oklahoma; Ph. D., Iowa.

ERNEST WALLACE, Instructor in History, 1936.
B. S., East Texas State Teachers College; M. A., Texas Technological College.

WILLIAM M. PEARCE, Instructor in History, 1938.
B. A., Southern Methodist University; M. A., Texas Technological College.

JOURNALISM

CECIL HORNE, Professor and Head Department of Journalism, 1926, 1937.
B. A., Baylor; B. A., Yale.

LOUISE CRAWFORD ALLEN, Instructor in Journalism, 1927, 1937.
B. A., Southern Methodist University; M. A., Missouri.

*On Leave Long Session 1940-1941.

**Temporary Appointment.

*JOSEPH B. COWAN, Instructor in Journalism, 1938.
B. J., M. A., Missouri.

**DAVID BERGIN, Instructor in Journalism, 1940.
B. A., Southwestern; M. A., Texas.

***CULVER HILL, Part-time Instructor in Journalism, 1941.
B. A., Texas Technological College.

MATHEMATICS

JAMES NEWTON MICHIE, Professor and Head Department of Mathematics, 1925.

B. S. in Engineering, Virginia; M. A., Michigan.

FRED WINCHELL SPARKS, Professor of Mathematics, 1926, 1928.
B. S., M. A., Southwestern; M. S., Ph. D., Chicago.

RALPH SYLVESTER UNDERWOOD, Professor of Mathematics, 1927, 1931.
B. A., M. A., Minnesota; Ph. D., Chicago.

EARL L. THOMPSON, Professor of Mathematics, 1928, 1939.
B. A., Kansas State Teachers College; M. A., Kansas; Ph. D., Chicago.

ELLIS RICHARD HEINEMAN, Associate Professor of Mathematics, 1928, 1939.
B. A., M. A., Wisconsin.

EMMETT ALLEN HAZLEWOOD, Assistant Professor of Mathematics, 1939.
B. S., West Texas State Teachers College; M. A., Ph. D., Cornell.

LLOYD CLINE CHRISTIANSON, Instructor in Mathematics, 1928, 1931.
B. A., Westminster; M. A., Missouri.

OPAL LAWLEY MILLER, Instructor in Mathematics, 1937.
B. A., M. A., Texas Technological College.

PAUL W. GILBERT, Instructor in Mathematics, 1940.
A. B., A. M., University of Rochester; Ph. D., Duke.

HORACE EUGENE WOODWARD, Instructor in Mathematics, 1937.
B. A., M. A., Texas Technological College.

LIDA B. MAY, Instructor in Mathematics, 1938.
B. A., Alabama; M. A., Texas.

RAYMOND KORNELIUS WAKERLING, Instructor in Mathematics, 1939.
A. B., Ph. D., California.

FRED D. RIGBY, Instructor in Mathematics, 1940.
B. A., Reed College; M. S., Ph. D., Iowa.

MUSIC

JULIEN PAUL BLITZ, Professor and Head Department of Music, 1934.
Laureate cum Laude, Royal Government Conservatory, Ghent, Belgium; D. Mus., Austin College.

DEWEY O. WILEY, Associate Professor of Music and Director of Band, 1934.
B. Mus., Simmons; Pupil of Carl Venth, E. Clyde Whitlock, Jacques Gordon.

ANN ALDEN TROTTER, Part-time Instructor in Music, 1939.
A. B., Central State Teachers College, Oklahoma; Horner Conservatory.

PHILOSOPHY AND SOCIOLOGY

JAMES MARCUS GORDON, Acting Head Department of Philosophy and Sociology, 1925, 1939.

B. A., Trinity; M. A., Chicago; LL. D., Trinity.

*On Leave Long Session 1940-1941.

**Temporary Appointment, Long Session 1940-1941.

***Temporary Appointment, Second Semester 1940-1941.

ARCHIE J. BAHM, Assistant Professor of Philosophy and Sociology, 1934, 1937.

B. A., Albion; M. A., Ph. D., Michigan.

PHYSICAL EDUCATION

For Men

*PETER WILLIS CAWTHON, Professor and Head Department of Physical Education for Men, 1930.
Southwestern.

**WILLIAM MORLEY JENNINGS, Professor and Head Department of Physical Education for Men, Director of Athletics, 1941.
B. A., Mississippi Agricultural and Mechanical College.

***RUSSELL T. SMITH, Professor of Physical Education for Men, 1930.
B. A., Austin College.

****JOHN ODELL MORGAN, Professor of Physical Education, Head Football Coach, 1930, 1941.
B. A., Austin College.

GEORGE BERL HUFFMAN, Assistant Professor of Physical Education for Men, 1935.

B. A., Trinity.

PHYSICAL EDUCATION

For Women

JOHNNYE GILKERSON LANGFORD, Associate Professor and Head Department of Physical Education for Women, 1925, 1934.
B. B. A., Texas; M. A., Southern California.

ZELLA RIEGEL HUFFMAN, Assistant Professor of Physical Education for Women, 1928.
B. A., Central College.

MARGARET BASKIN, Instructor in Physical Education for Women, 1935.
B. A., Texas Technological College.

PHYSICS

ENOCH FRANKLIN GEORGE, Professor and Head Department of Physics, 1925.

B. S., Valparaiso University; B. A., M. A., West Virginia; Ph. D., Ohio State.

WILLIAM HENRY ABBITT, Professor of Physics, 1926.

B. A., Virginia; Ph. D., Chicago.

CLARENCE CARL SCHMIDT, Associate Professor of Physics, 1927.

B. A., Cornell College; M. A., Ph. D., Illinois.

HARRY HILL, Associate Professor of Physics, 1926.

B. A., M. S., West Virginia; Ph. D., Chicago.

JAMES HOLLIE CROSS, Instructor in Physics, 1936.

B. A., M. A., Texas Technological College.

SPEECH

RUTH PIRTLE, Professor and Head Department of Speech, 1925, 1928.

B. S., M. A., and Diploma as Teacher of Speech Education, Columbia; Hickman School of Speech Arts; Lyceum Arts Conservatory; Colorado; California; Curry School of Expression, Boston.

*Resigned, Effective March 1, 1941.

**Effective June 1, 1941.

***Resigned, Effective April 1, 1941.

****Effective March 1, 1941.

ANNAH JO PENDLETON, Professor of Speech, 1927.

B. A., Diploma in Oratory, Texas Christian University; Diploma, School of Speech, Northwestern; M. A., Iowa.

JOHN NEAL WATSON, Instructor in Speech, 1939.

B. S., North Texas State Teachers College; M. A., Southern California.

Division Of Military Science And Tactics

***FRANK ANDREW PETTIT**, Captain, Corps of Engineers, United States Army; Professor and Head Division Military Science and Tactics, 1936.
B. S., United States Military Academy; B. S., California.

****BRUCE DOUGLAS RINDLAUB**, Captain, Corps of Engineers, United States Army; Professor and Head Division of Military Science and Tactics, 1940.

B. S., United States Military Academy; B. S. in C. E., M. S. in C. E., California.

*****HENRY DALE WESTON**, First Lieutenant, United States Army, Assistant Professor of Military Science and Tactics, 1940.

B. S., Oklahoma Agricultural and Mechanical College.

******WILLIAM BAXTER RICHARDS**, Staff Sergeant, United States Army, Assistant Instructor in Military Science and Tactics and Assistant to Military Property Custodian, 1936.

*******ALBERT LONZO RAMSEY**, Staff Sergeant, United States Army, Assistant Instructor in Military Science and Tactics and Assistant to Military Property Custodian, 1940.

*******LEONARD RUSSLYN DAY**, Sergeant, United States Army, Assistant Instructor in Military Science and Tactics, 1937.

Division Of Graduate Studies

OFFICE OF THE DEAN

ROBERT CABANISS GOODWIN, Dean of the Division of Graduate Studies and Director of Scientific Research, 1930, 1938.

B. A., Howard Payne; M. A., Texas; Ph. D., Harvard.

BETTY LINDSEY HUFFMAN, Secretary to the Dean of the Division of Graduate Studies, 1939.

B. A., Texas Technological College.

Division Of Extension

JULIUS FLAKE McDONALD, Director of Extension, 1926.

B. A., Baylor; B. A., Yale; M. A., Chicago.

HOMER MILLIKIN, Secretary for Extension and Correspondence Courses, 1938.

B. A., Baylor.

JANET M. McDONALD, Librarian, Visual Instruction, 1938.

Instructors In Special Departments

(Available to students, but not paid from College Funds.)

INSTRUCTORS IN MUSIC

H. A. ANDERSON, Reeds.

B. A., M. A., Simmons University; Instructor in Economics and Business Administration, Texas Technological College.

*Transferred by War Department to duty with the Twenty-ninth Engineers, Portland, Oregon, effective October 29, 1940.

**Effective October 30, 1940.

***Effective September 17, 1940.

****Transferred to Fort Crockett, Texas, November 19, 1940.

*****Effective November 20, 1940

*****Transferred by War Department November 8, 1940.

FLORA BRIGGS BLITZ, Piano Accompaniment.

Pupil of Marcian Thalberg, Cincinnati Conservatory; John Steinfeldt, San Antonio College of Music.

JULIAN PAUL BLITZ, Cello.

Laureate cum Laude, Royal Government Conservatory, Ghent, Belgium; D. Mus., Austin College; Professor and Head Department of Music, Texas Technological College.

BEULAH DUNN, Violin and Cello.

B. Mus., Chicago Musical College; Pupil of Max Fischel, Samuel Gardner, Rudolph Ganz, Andrea Ulbrich, and Ottaker Sevcik.

MYRTLE DUNN, Voice and Piano.

B. Mus., Chicago Musical College; Pupil of Herbert Witherspoon, Graham Reed, and Frank Webster in voice; Guest Teacher, Chicago Musical College, summers of 1929, 1930, and 1931; Pupil of Emil Liebling, Lillian Powers, and Alexander Raab, in piano.

ESTELLE GEORGE, Piano.

B. Mus., Cincinnati Conservatory.

MARGARET JOHNSON HUFF, Piano, Organ, and Voice.

B. Mus., American Conservatory; Pupil of Lucille Tewksbury and Alice Monerief in voice; Charles W. Landon, Mrs. J. M. Cassidy, and Mann of Egypt in Organ.

MRS. CARL SCOGGIN, Voice.

B. Mus., Ottawa University.

DEWEY O. WILEY, Violin.

B. Mus., Simmons University; pupil of Carl Venth, E. Clyde Whitlock, Jacques Gordon; Associate Professor of Music and Director of Band, Texas Technological College.

INSTRUCTORS IN BIBLICAL LITERATURE**WILLIAM FRANCIS FRY, Biblical Literature, under the auspices of the Baptist General Convention of Texas.**

B. A., M. A., Wake Forest; D. D., Simmons University.

DWIGHT LYMAN MCCREE, Biblical Literature, under the auspices of the Northwest Texas Conference of the Methodist Church.

A. B., Southern Methodist University; B. D., Yale.

OTHER OFFICERS AND ASSISTANTS**LIBRARY STAFF****ELIZABETH HOWARD WEST, Librarian, 1925.**

B. A., Mississippi State College for Women; B. A., M. A., Texas.

EMMA LILLIAN MAIN, Assistant Librarian and Cataloguer, 1926.

B. A., North Texas State Teachers College.

LULU STINE, Cataloguer, 1930.

B. A., Texas; M. A., Texas Technological College.

VIOLET M. MATTSON BAIRD, Reference Librarian, 1935.

B. A., M. A., Rice; B. S. in L. S., Louisiana.

LUELLA SYBIL RYSTROM, Loan Librarian, 1937.

B. S. in Ed., M. A., Nebraska.

RUTH SPALDING, Assistant Loan and Reference Librarian, 1938.

A. B., Mary Hardin-Baylor; B. S. in L. S., Illinois.

GERTRUDE BRANDES, Assistant Loan and Reference Librarian, 1939.

A. B., Baylor; B. S. in L. S., Columbia.

CORA FOX NEILL, Stenographer, 1937.

B. A., Texas State College for Women.

OFFICE OF THE REGISTRAR**WARREN PERRY CLEMENT, Registrar, 1926, 1933.**

B. A., M. A., Baylor.

FLORENCE EVELYN CLEWELL, Assistant Registrar, 1929, 1933.
B. A., Oklahoma.

JEAN A. JENKINS, Secretary to the Registrar, 1935, 1938.
B. A., Texas Technological College.

LOUCILLE M. THOMPSON, Director of Transcript Service, 1938.
B. A., West Texas State Teachers College.

ELEANOR JUNGMAN EARNEST, Information Clerk, 1937, 1938.
B. A., Texas Technological College.

GENEVIEVE BRAGG CALDWELL, Records Clerk, 1938.
B. A., Texas Technological College.

SARA BASS BOGAN, Clerk, 1940.

OFFICE OF THE DEAN OF MEN

JAMES GEORGE ALLEN, Dean of Men, 1927, 1940.
B. A., Southern Methodist University; M. A., Harvard.

LORENE CHILDERS HARDING, Secretary to the Dean of Men, 1937.
B. A., Texas Technological College.

ELVA BAKER, Assistant to Dean of Men, 1939, 1940.
B. S., Texas Technological College.

OFFICE OF THE DEAN OF WOMEN

MARY WOODWARD DOAK, Dean of Women, 1925.
B. A., Texas; M. A., Texas Technological College.

ELEANOR M. CHITWOOD, Assistant Dean of Women, 1927, 1939.

JUANITA PRICE, Secretary to the Dean of Women, 1937.
B. A., Texas Technological College.

DORMITORY STAFF

MOZELLE EUGENIA CRADDOCK, Manager and Dietitian of the Dormitories, 1934.
B. S., Texas; M. A., Chicago.

*MRS. DOROTHY RUSSELL GOETZKE, Assistant Dietitian, 1939.
B. S., Texas State College for Women.

**GEORGIA MAE SMITH, Assistant Dietitian, 1939.
B. S., Texas Technological College.

MR. AND MRS. WILLIAM N. BOBBITT, Social Directors, Men's Dormitory Number One, 1940.

***MR. AND MRS. RALPH C. FAVER, Social Directors, Men's Dormitory Number Two, 1939.

MRS. ELIZABETH YOUNG, Social Director, Women's Dormitory, 1934.

MRS. DOUGLAS ADAMS, Stenographer to the Manager of the Dormitories, 1940.
B. B. A., Texas Technological College.

****MRS. ORVILLE ROLLEFSON, Dietitian, Men's Dormitory Number One, 1941.
B. S., Minnesota.

*Resigned, Effective January 28, 1941.

**Resigned, Effective February 26, 1941.

***Resigned, Effective March 20, 1941.

****Effective March 3, 1941.

WEST TEXAS MUSEUM STAFF

WILLIAM CURRY HOLDEN, Dean and Director of Anthropological, Historical, and Social Science Research, and Curator, 1929, 1938.
B. A., M. A., Ph. D., Texas.

J. DOYLE SETTLE, Field Representative, 1938.
B. A., Texas Technological College.

***MRS. STELLA KNAPP**, Assistant Custodian, 1939.

BUSINESS OFFICE

W. T. GASTON, Business Manager and Secretary to Board of Directors, 1929.

SETH THOMAS CUMMINGS, Purchasing Agent, 1927.

GUS WOOD McCLEARY, Auditor, 1931, 1940.

HUBERT L. BURGESS, Cashier and Bookkeeper, 1934.

FLOSSIE BURKHOLDER, Cashier and Bookkeeper, 1932, 1937.
B. A., Texas Technological College.

****MERCEDES E. COLLINS**, Secretary to the Business Manager, 1937.

******LOUISE DOUGLAS**, Secretary to Auditor, 1936.
B. B. A., Texas Technological College.

MARY JO COLE, Secretary to Purchasing Agent, 1928.

*****MRS. VERNA ALDER**, Secretary to the Business Manager, 1941.

OTHER EMPLOYEES

RALEIGH C. MIDDLETON, Superintendent of Farms, 1929, 1935.
B. S., Texas Technological College.

WILLIAM CONNER COLE, Manager of College Bookstore, 1927.

WILMOT EATON, Superintendent of Tech Press, 1937.
B. A., Texas Technological College.

JAMES H. GRIMSLEY, Superintendent of Buildings and Grounds, 1928.

WILLIAM PARKER, Assistant Director of Publicity, 1939, 1940.

JAMES W. HUFFMAN, Assistant Creamery Superintendent, 1939.
B. S., Texas Technological College.

GWYN CLARK DOWELL, Athletic Manager, 1939.

*******ALLENE ATKINSON**, Secretary YMCA-YWCA, 1938, 1939.
B. A., Texas.

MARY LEDA McADAMS, Director of Casa Linda, 1940.
B. S., Texas Technological College.

*Deceased March 18, 1941.

**Resigned, Effective March 15, 1941.

***Effective March 17, 1941.

****Resigned, Effective March 31, 1941.

*****Resigned, Effective February 15, 1941.

FACULTY COMMITTEES

(The President is an ex-officio member of all Committees)

THE COLLEGE ADMINISTRATIVE COUNCIL

The President; Deans of the undergraduate Divisions; Dean of Division of Graduate Studies; Dean of Anthropological, Historical, and Social Science Research; Dean of Men; Dean of Women; Professor of Military Science and Tactics; the Registrar; the Librarian; the Business Manager of the College; the Director of Extension; the Administrative Assistant as Secretary of the Council. The Administrative Council has general charge of all administrative policies and may consider appeals from other Committees. It deals with scholarship, courses of study, standards of admission, the calendar, and similar matters.

DAILY SCHEDULE

Schmidt, Murdough, Harrison, Erwin, Underwood, Gates.

STUDENT HOUSING

Dean of Men, Dean of Women, Gordon, Leidigh, Adams, Weeks, Chitwood, Baker.

STUDENT EMPLOYMENT

Dean of Men, Dean of Women, Assistant to Dean of Men, Assistant Dean of Women, Administrative Assistant. The Deans of the undergraduate Divisions are ex-officio advisory members.

SOCIAL ACTIVITIES

Dean of Women, Dean of Men, Twyford, Langford, Mowery, McRee.

STUDENT PUBLICATIONS

Mills, Horne, Root, Street, Chappelle, Poindexter, and student members to be announced later. (Committee elects its own chairman.)

SCHOLARSHIP AWARDS

Patton, McCrery, Harbaugh, Michie, Kleinschmidt.

STUDENT RELIGIOUS LIFE

Bahm, Dingus, McCrery, Bullen, Qualia, Williams, McKay.

CATALOGUE

Leidigh, Gordon, Adams, Weeks, Goodwin, Clement.

ARTISTS COURSE

Mills, Murphy, Blitz, St. Clair, Pirtle, Looney, and an equal number of students appointed by the Student Council.

SUMMER SCHOOL

Gordon, Adams, Leidigh, Weeks, Goodwin, Evans, Clement.

DISCIPLINE FOR MEN

Dean of Men, Gordon, Adams, Leidigh.

DISCIPLINE FOR WOMEN

Dean of Women, Weeks, Pirtle.

ATHLETIC COUNCIL

Stangel, Godeke, Pender, and alumni representative, and a student representative.

MILITARY AFFAIRS

Rindlaub, Weston, Horne, Lee, Harbaugh.

GRADUATE WORK

Goodwin, Adams, Weeks, Leidigh, Ellsworth, Young, Murdough, McCrery, Holden, George, Qualia, Garlin.

REGISTRATION

Clement, Godéke, Sparks, Renner, Buster.

CONVOCATION

J. G. Allen, Horne, McBride, Bullen, Poindexter.

CAMPUS PLANNING

Murdough, Erwin, Howell, Smallwood, Holden, Gaston, Chitwood.

GRADUATE STUDENT GUIDANCE COMMITTEE

Goodwin, Mina Wolf, Plank, Yocum, J. W. Jackson, Gray.

COMMITTEE ON SPECIAL USE OF DORMITORIES

Doak, Gaston, Craddock, Kent, J. G. Allen. (The Committee elects its own chairman.)

GENERAL INFORMATION

The Texas Technological College at Lubbock was organized by authority of an act of the Thirty-Eighth Legislature of the State of Texas passed in 1923. This act authorized the establishment of a college west of the ninety-eighth meridian and north of the twenty-ninth parallel, which should be a coeducational college of the first-class, giving thorough instruction in technology, manufacturing, engineering branches, agriculture, home economics and also complete courses in "arts and sciences, physical, social, political, pure and applied, such as are taught in colleges of the first class leading to the degrees of Bachelor of Science, Bachelor of Arts, Bachelor of Literature, Bachelor of Technology, and any and all other degrees given by colleges of the first-class."

Pursuant to this act of the Legislature, The Texas Technological College was located at Lubbock, Texas, its buildings erected, and its doors opened to students for the first time on September 30, 1925.

The enrollment which was 1,379 students the first year, is now in excess of 7,000 students of all classifications annually. Practically all of these students are residents of Texas and come from all sections of the State.

LOCATION

The College is located in the South Plains area of the State of Texas, approximately two hundred miles from the northern line of the Panhandle and more than three hundred miles northwest of the State Capitol. The elevation is 3,200 feet above sea level. Lubbock is in the midst of one of the richest farming sections of Texas. Lubbock County was the second largest cotton producing county in Texas in the year 1932, and the first in 1937. In addition, this entire territory is a great livestock country with extensive feeding of beef cattle, sheep, hogs, and a considerable dairy and poultry industry in the process of development.

Lubbock is located on two railroad systems, the Fort Worth and Denver City and the Santa Fe, giving excellent connections and good time-schedules to most parts of the State. The state and national system of hard surfaced highways connects Lubbock with all sections. Bus transportation is available in every direction.

The territory in which the College is located has grown in population slightly more than one hundred per cent in the last eleven years. Lubbock is a rapidly growing city of approximately 37,000 people, exclusive of out-of-town college students. The city has excellent churches, hotels, shopping centers, and residences. In addition, it boasts pure water and natural gas. For the past eleven years, Lubbock has won the trophy awarded annually by the national Clean-up and Paint-Up Bureau of Washington, D. C., to the cleanest city in Texas. The public school system of Lubbock is one of the most progressive in the State of Texas and is supplied with adequate school-buildings and a capable teaching staff. These facts are of interest to parents who may wish to come to Lubbock with a family of children and who may wish to know the full educational advantages of this section. The relatively high altitude, abundant sunshine, freedom from dampness, and almost total absence of insect pests and mosquitoes make for genuinely healthful living conditions.

BUILDINGS AND GROUNDS

The Texas Technological College is supplied with modern buildings on an extensive campus with a large farm, all on one great body of land located just at the western edge of the City of Lubbock. The actual campus is comprised of approximately 320 acres, leaving 1,688 acres of excellent farm land for the use of the Division of Agriculture of the College.

The campus is permanently planned with a definite system of driveways and parking places, lawns, landscaping about the buildings, and a general

plan of beautification. Interest is taken in the growing of trees on the campus. All of the trees are young, but with the planting of shrubs and flowers the campus is a beautiful and attractive area.

The plans for the physical development of the institution were carefully drawn and approved by its Board of Directors so as to promote orderly and careful building as the College grows and as the territory which it serves increases in population. The architecture is of the Spanish Renaissance, a general type being used for all buildings.

The following are the principal buildings on the campus:

New Buildings, which will be ready for use when College opens in September, 1941 include:

Press Building, a two-story brick and stone structure 60 by 120 feet, which is situated directly north of the Library. It will provide classrooms and office space for the Department of Journalism, the News Bureau, the Photo Studio, the student semi-weekly newspaper (The Treador), the College Yearbook (La Ventana), the library and reading room for journalism students, and quarters for the Tech Press. Fluorescent lighting will be used throughout the building to facilitate evening work and to provide the same facilities as in a modern newspaper plant. The Press Building is a self-liquidating project and is not constructed from appropriated funds.

New Dormitory for Women, a three-story fireproof building, beautifully designed, which is situated south of the other women's dormitory, facing the east. This residence hall follows the same general floor plan as the other halls, providing adequate housing facilities for 320 women students. In addition to the attractively furnished lounge which serves as a social center for the student life of the dormitory, recreational facilities will be provided in the basement. A more thorough description of this building will be found, following, under **Residence Halls**. This building is a self-liquidating project and is not constructed from appropriated funds.

Administration Building, erected in 1924-25, is a three-story brick and stone structure 60 by 300 feet situated at the south side of the main quadrangle of the campus. At present there are located in this building the administrative offices of the College, including those of President, Business Manager, and the Registrar; other business offices; office of the Dean of Women; office of the Dean of the Division of Arts and Sciences; office of the Dean of Men; departmental offices; and classrooms of the Division of Arts and Sciences.

Engineering Building, erected in 1927-28, is a two-story brick and stone structure 54 by 278 feet with two wings 52 by 52 and 42 by 78, situated on the west side of the main quadrangle of the campus. In this building are located the office of the Dean of the Division of Engineering; offices of Engineering faculty members; laboratories; classrooms; a large lecture room; drafting rooms; Engineering Library; and equipment consisting of approximately \$70,000 worth of machinery, apparatus, and scientific instruments.

Textile Engineering Building, erected in 1924-25, is a two-story brick and stone structure 65 by 220 feet situated at the north end of the main quadrangle. It contains offices, classrooms, laboratories, and machine rooms of the Department of Textile Engineering. The textile equipment is modern. It consists of all the machinery necessary for spinning, weaving, dyeing, and finishing cotton, wool, silk, and rayon on an institutional or instructional basis, and the required scientific apparatus for the various tests of these substances. All machinery is electrically driven.

Chemistry Building, erected in 1928, is a three-story brick and stone structure 60 by 232 feet with one wing extending back 40 feet, situated northwest of the Administration Building. Although designed originally for the

Department of Chemistry, at the present time it houses the Departments of Chemistry, Biology, Geology and Petroleum Engineering, and Physics.

Library, erected in 1937-38, at a cost of \$275,000, is an L-shaped three-story brick and stone structure 60 by 232 feet with a wing 40 by 110 feet, situated north of the Chemistry Building which it faces and to which its exterior architecture approximately conforms. When it is fully equipped, it will seat 1000 students. It has a storage capacity of approximately 200,000 volumes.

West Texas Museum, of which only the first unit or ground floor has been completed and is now in use, is situated across the circle from, and northeast of, the Administration Building, directly west of the men's dormitories. The ultimate building will be two stories high, of handsome architecture, with a Memorial Hall dedicated to the pioneers of this section and with ample space for showing a large collection of historical, scientific, and artistic exhibits of interest to the people of this great western part of the State of Texas. The building is open regularly to visitors.

Agricultural Buildings, erected at intervals since the establishment of the College, are located southwest of the Administration Building. They consist of the Agricultural Building erected in 1927—a one-story stucco structure used as a temporary office and classroom building; the Annex to the Agricultural Building—a one-story frame structure 20 by 140 feet containing additional offices, classrooms, and space for a branch seed-laboratory of the State Department of Agriculture; a Livestock Judging Pavillion erected in 1924—a tile and stucco building containing a large arena with tiers of seats; a Dairy Manufactures Building erected in 1939—a small stucco building containing offices and laboratories for the Dairy Manufactures Department; and the Greenhouse, erected in 1927—a 25 by 75 foot structure with an independent heating plant—used for laboratory work in horticulture and propagation.

Home Economics Building, erected in 1924, is a two-story brick and stone structure 40 by 80 feet, situated east of the Administration Building. The present building supplemented by two annexes, representing only a portion of the ultimate plans for the Division of Home Economics, now contains the offices, classrooms, and laboratories for the Division of Home Economics.

The Nursery School Building, erected in 1938, is a four-room cottage-type building situated near the Home Economics Building. It serves as a laboratory for the Child Development classes in the Division of Home Economics.

Home Management House, erected in 1927, is a two-story brick residence, completely furnished and used as a laboratory for students in Home Management. It also serves as a social center for activities in the Division of Home Economics.

Gymnasium, erected in 1926, is a temporary frame structure with tile and stucco walls, situated near the north end of the campus. It is used not only as a gymnasium but as a general meeting place for students, and is the only building on the campus which will seat a representative portion of the student body and faculty. The seating capacity around the playing floor is approximately 1,400.

Mechanical Engineering Shop Building, erected in 1926, is a one-story tile and stucco building, 50 by 100 feet, situated north of the Textile Building. It contains pattern shops, wood shops, machine shops, foundry, sheet-metal shop, and other shops for the work of the Department of Mechanical Engineering.

Meats Laboratory, erected in 1937, is a one-story semi-permanent structure with refrigeration equipment, situated west of the Livestock Judging Pavillion. It contains facilities for killing, dressing, and cutting meat and is equipped for the work of the Department of Animal Husbandry having to do with farm meats.

Farm Shop, erected in 1934, is a one-story frame structure 40 by 100

feet, situated west of the campus. This building has an office and is provided with tools and equipment for work in Agricultural Engineering and Farm Shop and has storage space for a limited amount of farm machinery used for class instruction.

Farm Buildings, erected at intervals since the establishment of the College, are situated west of the campus. Among them are the Dairy Barns—erected in 1925—with stanchions for forty cows, with dressing rooms, feed rooms, and the milk house and dairy manufactures plant which are equipped with refrigeration. There are also a number of frame structures on the farm, including residences for the chief herdsman, livestock barns, sheds, poultry houses, and similar equipment.

Military Building, erected in 1936, is a one-story frame structure 20 by 160 feet with a basement gallery rifle range 12 by 100 feet—situated north of the Engineering Building and southwest of the Textile Building. This building was constructed for the housing of the Senior R. O. T. C. Unit initiated with the fall semester of 1936. It contains a classroom, offices for military personnel, and rooms for storage of military arms, clothing, and equipment.

Bookstore, erected in 1925, is a one-story stucco structure 40 by 60 feet, situated southeast of the Administration Building. The Bookstore is operated by the College for the purpose of supplying students with books, stationery, and other necessary supplies.

Heating Plant, erected in 1925 and enlarged in 1931, is situated north of the Textile Building. It supplies heat, water, and power for the entire campus.

Residence Halls, erected between 1934 and 1941, are three-story fireproof buildings attractively designed, and situated near the main entrance drives of the campus. The Residence Halls consist of two dormitories for men, completed in 1934 and in 1939; and two for women, one of which was completed in 1934; the other—at the present under construction—will be ready for occupancy in September, 1941. Each of these halls is built in the form of a letter E, the front section and two wings being used for student rooms, and the central wing for dining rooms, kitchen, and service rooms. In addition, there is in each hall an attractive and excellently furnished lounge which serves as the social center for the student life of the dormitory. Each of these buildings will house 320 students.

The student rooms are well furnished. The floor of each room is covered by a nine-by-twelve rug. A double study table with individual study lamps, two single beds with mattresses, chairs, and a dresser or chest-of-drawers complete the room furniture. In each room is a lavatory with hot and cold water. Adequate closet space is provided for necessary clothing. Board and room is furnished to students in these residence halls at very modest prices. The College and its friends are proud of these beautiful new buildings constructed under loan and grant from the Public Works Administration.

Casa Linda, erected in 1938, is a two-story stucco residence situated north of the Home Management House. It is completely furnished except for bedding and linens, which the students are expected to furnish. The seventeen girls whom this cooperative house accommodates do all the work and planning themselves under the direction of either a faculty member or a graduate student who in turn confers with members of the Home Economics faculty.

El Meson, erected in 1938, is a one-story frame structure 20 by 120 feet with two wings 20 by 50 feet, situated northwest of the Agricultural Building. El Meson is a dormitory originally constructed for a non-collegiate training project. In addition to residence accommodations for fifty men and the resident supervisor, it now contains recreation rooms, storage rooms, kitchen, and dining room.

FACILITIES

The College is provided with a sewer system; a pressure water distributing system supplied from its own well, water tower, and mains; a permanent lighting system; complete gas lines for the distribution of natural gas; and a complete series of electric circuits and telephone conduits. Heating tunnels of permanent construction connect the principal buildings with the power plant and contain the various distributing systems.

COLLEGE FARM

Of the College property, comprising approximately 2,008 acres, practically 1,688 acres lie west of the main campus and are used by the Division of Agriculture as a farm upon which to grow feed crops, cotton, forage crops, vegetables, and other crops necessary to supply the livestock with feed and to illustrate to students the various crops grown in this area. There are excellent herds of beef cattle, dairy cattle, horses, sheep, swine, and poultry. The entire farm is used for practical educational work. On the farm are pastures, barns, silos, and other equipment of the type and character to illustrate best the agriculture of this section.

ORGANIZATION

The government, control, and direction of the policies of the College are vested in a board of nine directors appointed by the Governor and approved by the Senate, each for a term of six years. The list of the Board of Directors may be found on page 6 of this Bulletin.

ADMINISTRATION

The administrative direction of the affairs of the College is in the hands of the President of the College, appointed by the Board of Directors, acting as the executive officer of the College. The College Administrative Council, faculty committees, divisional faculties, and general faculty have their special provinces in the handling of institutional matters.

DIVISIONAL ORGANIZATION

The College is divided into administrative divisions and departments of instruction, all closely correlated and interdependent. These divisions are as follows:

The Administrative Division:

- President
- The Deans and Heads of the Divisions
- Registrar
- Librarian
- Business Manager
- Purchasing Agent
- Manager and Dietitian of Dormitories
- Dean of Women
- Dean of Men

The Division of Agriculture:

- Dean
- Department of Agricultural Economics, Farm Management, and Rural Sociology
- Department of Agricultural Education
- Department of Animal Husbandry
- Department of Dairy Manufactures
- Department of Plant Industry

The Division of Engineering:

- Dean
- Department of Architecture and Allied Arts
- Department of Chemical Engineering
- Department of Civil Engineering
- Department of Electrical Engineering
- Department of Industrial Engineering and Engineering Drawing
- Department of Mechanical Engineering
- Department of Petroleum Engineering
- Department of Textile Engineering
- (Chemical Engineering and Petroleum Engineering are associated with the subject matter departments in the Division of Arts and Sciences.)

The Division of Home Economics:

Dean
 Department of Applied Arts
 Department of Child Development and Family Relations
 Department of Clothing and Textiles
 Department of Foods and Nutrition
 Department of Home Economics Education
 Department of Home Management
 Department of Institutional Management

The Division of Arts and Sciences:

Dean
 Department of Biology
 Department of Chemistry
 Department of Economics and Business Administration
 Department of Education and Psychology
 Department of English
 Department of Foreign Languages (French, German, Latin, Spanish)
 Department of Geology
 Department of Government
 Department of History and Anthropology
 Department of Journalism
 Department of Mathematics
 Department of Music
 Department of Philosophy and Sociology
 Department of Physical Education
 Department of Physics
 Department of Speech

The Division of Military Science and Tactics:

Professor of Military Science and Tactics

The Division of Graduate Studies:

Dean of Graduate Division

The Division of Extension:

Director of Extension
 Extension Classes
 Correspondence Study

The Division of Plant Operation:

Heat, Light, Water, and Power
 Building Maintenance
 Campus Maintenance

The West Texas Museum:

Curator

LIBRARY

The Library is housed in a building which is to be used ultimately for library purposes only. Reading rooms and staff offices are now on the first and second floors; there are also seminar rooms, which are now being used for offices and classrooms. In the tower are private study rooms for faculty members engaged in research. The ground floor is now being used mainly for classrooms, but is so constructed as to be readily convertible into rooms suitable for library use when necessary. There will be five stack-levels with a capacity of about 200,000 volumes when the shelving equipment is complete. When all rooms become available for strictly library use and are provided with suitable furniture, there will be a seating capacity of approximately 1,000.

The Library contains 71,417 volumes and approximately 25,000 uncatalogued pieces, comprising manuscripts, maps, and pamphlets. In gathering this material, emphasis has been laid on acquiring the nucleus of a basic reference collection. A substantial beginning has been made in the acquisition of a number of general encyclopedias, English and foreign, among which the *Encyclopedia Universal Illustrata Europea-Americana* and the *Europa* service are outstanding in their general usefulness; special encyclopedias, notable among which are the *Encyclopedia of the Social Sciences*, the *Dictionary of American History*, and the *Dictionary of American Biography*; dictionaries, English and foreign, notably the *Oxford Dictionary*, the *Dictionary of American English*, and *Littre's Dictionnaire*; atlases; English and foreign literature texts; treatises on subjects taught in the College; indexes; magazines of general and special interest—current and back numbers—many of which are bound; the nucleus of a fair working collection of Federal and State documents, especially of Texas.

Two growing collections—Texas history, and Indian life and history—are of especial importance for present and future students. Both comprise secondary and source material. Outstanding source material in the Texas collection is comprised of miscellaneous papers connected with the estate of James Bowie, the gift of the late Senator Arthur Duggan, Littlefield, Texas; a collection of records of the Matador Land and Cattle Company, the gift of Mr. Riley, Superintendent of the company; and a collection of records of the Spur Ranch, the gift of President Clifford B. Jones. Through the courtesy of the State and University libraries, copies and translations are being made for the Library of a small collection of papers connected with the Castro Colony, deposited in the Library by Mrs. Richard Holdsworth, Kerrville, Texas. The acquisition of source material for the Indian collection has been begun with transcripts of manuscript material bearing upon Indian trade in the late eighteenth and early nineteenth centuries lent to the Library by the Florida Historical Society and by Admiral John Greenslade of Washington, D. C., to be edited by the Librarian for the *Florida Historical Quarterly*.

Through the generosity of Dr. George W. Howard, a Dallas physician and private collector, we have received, in partnership with the West Texas Museum, a group of books and papers as an indefinite loan. These are comprised of documents, letters, portraits, and books—official and private—of officials and pioneers prominent in the history of Texas and Mexico. Of especial interest is the manuscript material of Father Fischer, a prominent Catholic priest of the Maximilian period in Mexico.

The art collection of the College has been notably enriched by the addition of "The Ring", an oil painting by Robert Vonnoh, N. A. generously placed in the Library by its owner, Mr. L. C. Harrison, of Lubbock.

In the field of bibliography, general and professional, a beginning has been made. In this section the acquisition of most far-reaching importance is the revised edition of the British Museum *General Catalogue of Printed Books*, now in progress.

On the periodical rack and stack shelves are about six hundred general and special magazines and twenty newspapers, some acquired by gift, some by purchase. An especially important part of the periodical equipment includes *The Reader's Guide*; *International Index*; *Agricultural Index*; *Industrial Arts Index*; *Education Index*; *Art Index*; *Index to Legal Periodicals*; *Book Review Digest*; *Motion Picture Digest*; *Bibliographic Index*; *Quarterly Cumulative Index Medicus*; *New York Times Index*; *Magazine Subject Index*; (annual cumulation of the *Bulletin of Bibliography*); *Poole's Index*; the *Dallas News* from 1905 to date; and a complete file of the *United States Daily* and its successor, the *United States News*, including the rag paper edition.

The Library is a designated depository for all federal documents. It is also a designated depository of the Carnegie Endowment for International Peace, whose gifts are going far in building up the International Law section, and of the Carnegie Institute of Washington, whose gifts are adding valuable material, especially in science and history.

The Library, in addition to its service to students and faculty members, lends books to individuals and study groups in Lubbock and neighboring communities.

The Library is open as follows: 7:30 a. m. to 10 p. m. Monday through Friday, 7:30 a. m. to 5 p. m. Saturday, 11 a. m. to 12 noon between sessions, and throughout the Christmas holidays excepting Christmas and New Year's Days. This exception applies to all national holidays.

WEST TEXAS MUSEUM ASSOCIATION

The Plains Museum Society which was originated in 1929, was changed to the West Texas Museum Association in 1936. The object of this Association is to foster, increase, and diffuse among the people of this section and of the state a knowledge and appreciation of history, science, and art. Membership

is open to any person actively interested in the work of the Association. A good beginning has been made in collecting objects of scientific, historic, and artistic value. These are now being stored and exhibited for the benefit of the public insofar as is possible in the first floor unit of the new Museum building constructed with funds from the Centennial appropriation. Plans are now underway to provide means for the construction of the second and third floor units, together with a Memorial Hall dedicated to twelve outstanding pioneers of West Texas. The Museum is under the supervision of Dean W. C. Holden, Curator.

THE COLLEGE BOOKSTORE

The College Bookstore, a self-supporting enterprise of the institution, is owned and operated on the campus by the College. It is maintained to enable students to purchase text books, books for extension courses, supplies, and other equipment needed for laboratory and class work. It also carries, for the convenience of students, an assortment of stationery and other supplies.

A lunch counter is maintained by the Bookstore serving light lunches, sandwiches, drinks, and pastries for the convenience of both students and faculty members.

The Bookstore also handles secondhand books, purchasing them at the end of the year from students who desire to dispose of such books. It gives prompt service on book orders. A complete book catalogue service available to everyone is maintained.

ATHLETICS

Since a part of a college education is to learn how to take care of one's physical needs, instruction is given not only in the routine of regular physical education classes, but also in the playing of various kinds of games.

Intercollegiate athletic contests are carefully supervised under the direction of a faculty committee—the Athletic Council. The supervisors are taken from the coaching staff and are trained in the art of coaching and supervising the physical training of the student body. There are grounds provided for football, basketball, tennis, and track. Intramural contests are sponsored in these sports.

MILITARY SCIENCE AND TACTICS

The charter authorizing the establishment of Texas Technological College directed that, "All male students attending this college shall be required to receive such instruction in military science and tactics as the board of directors may prescribe which shall, at all times, comply in full with the requirements of the United States Government". From the beginning of the College, the Board of Directors has maintained a Department of Military Science and Tactics on a voluntary basis. The active co-operation of the Federal Government was not obtained until the opening of school in the fall of 1936. Co-operation of the local detachment of the National Guard furnished the facilities for instruction in military science and tactics during the few years immediately preceding Federal participation.

In the spring of 1936, the War Department authorized the establishment of a Senior Engineer R. O. T. C. Unit, at Texas Technological College. This unit was initiated with the fall term of that year and has, at each of the annual inspections since its initiation, been awarded the rating of "Excellent". Participation in this unit is limited to eligible engineering students and enrollment is on a voluntary basis. The College is continuing its efforts with a view to the authorization of an additional R. O. T. C. Unit which shall be available to all eligible male students of the College. The graduates of the four-year course of the present Engineer Unit may receive commissions as Second Lieutenants in the Engineer Reserve Corps of the United States Army.

The Federal Government supplies the full complement of arms, equipment, scientific instruments and other facilities for instruction in this course of training. During the first two years of this course, the student is furnished the major portion of the prescribed uniform without cost. Those students selected for the third and fourth year of this training are required to purchase the uniform prescribed from funds supplied for this purpose.

It should be pointed out that this fits in educationally with the work of the Division of Engineering of the College. The work of an army engineer consists mainly of applied engineering. This unit, therefore, becomes a very fine laboratory for increasing the real education and training of students, particularly in engineering. The training in leadership, courtesy, behavior, and personal neatness is an essential part of the training in this division of work.

The work in Military Science and Tactics has been made a separate division of the institution on account of its relationship to all other divisions, the senior officer reporting directly to the President of the College.

CIVILIAN PILOT TRAINING PROGRAM

As a part of the Civilian Pilot Training Program inaugurated by the Civil Aeronautics Administration, the College offers work in vocational flight training. Ground-school work is given by the Department of Mechanical Engineering. There are two courses: preliminary, or private, for those who have had no training; and secondary, or restricted commercial, for those who have completed the preliminary course. The flight training, although not directly connected with the College, is given at the local airport by experienced pilots certified as instructors by the government and is under the supervision of a faculty member appointed as coordinator of the program. The number of registrants in this course is limited by the Federal Government.

THE ALUMNI AND EX-STUDENTS ASSOCIATION

The Alumni Association of the Texas Technological College was organized in 1927, immediately after the commencement exercises for the first graduating class. At the annual meeting in 1934, the Association became the Alumni and Ex-Students Association. At the present time the institution has 4,555 graduates and 35,000 ex-students.

All graduates and ex-students are urged to be members of the Alumni and Ex-Students Association. The Association holds two rallies each year—one at Home-Coming Day in the fall of the year and the other in the spring.

The association has as its official publication the TEXAS TECH MAGAZINE which each member of the organization receives monthly during the Long Session of the school year. A news magazine of college interest which gives the facts, feelings, and ideas of the administration, the students on the campus, and the former students over the nation—the publication ties together the strings of friendship for the alma mater, keeping the new and old abreast in the building of a greater Texas Tech.

Payments of annual dues of \$2.00 entitles members to a year's subscription to the magazine, and to the purchase of a season athletic ticket, which is good not only for varsity football but also for freshmen football games, basketball games, fun nights, and the Fiesta in the Spring, as well as activities of the Association.

An effort is made to keep a complete list of alumni with their addresses, positions held, progress in their life work, and other information. Members are urged to send their names and addresses yearly to the Executive Secretary of the Association, Texas Technological College, Lubbock, Texas.

COEDUCATION

The bill by which Texas Technological College was established provides that the College shall be coeducational. Consequently, from the day the doors first opened, young women and young men have been admitted on an equal basis.

MEMBERSHIP IN EDUCATIONAL ASSOCIATIONS

The Texas Technological College has membership in the following organizations: The Association of American Colleges; the Southern Association of Colleges and Secondary Schools; the Association of Texas Colleges; Texas Association of Music Schools; the National University Extension Association; and the American Council of Education.

DEMOCRACY OF SPIRIT

The Board of Directors and administrative staff of the Texas Technological College believe that part of a college education is the maintenance of a true American spirit of democracy. The College endeavors to promote a fine democratic spirit among all its students as a means of fostering attitudes of mind toward other individuals in a great democracy which will prepare a student for his true place as a citizen.

Hazing is forbidden by the laws of the State of Texas, and the College expects every student to obey the laws of the State. The practice is indefensible in every way even if the laws of the State of Texas did not make such provision.

The Board of Directors passed a rule forbidding Greek letter social fraternities. Every student in this institution is encouraged to make a place for himself in the student organizations which will be worthy of his own best interests and the best interests of the entire group. No organization among the students has any right to exist unless it promotes both the best interests of the membership of the organization itself and the best interests of the College as well. All student organizations on the campus are urged to maintain the spirit of democracy.

OFFICIAL PUBLICATIONS

The College maintains a series of publications in the form of official bulletins, one issue of which is this general catalogue of the College. Another issue is devoted to various activities of the institution, the needs of the institution as they appear from time to time, and such scientific and literary productions from those members of the faculty and student body as are worthy of preservation in permanent form. An official directory is published each semester. It contains the names and addresses of all students, employees, and faculty members of the College.

INFORMATION FOR STUDENTS

GENERAL PURPOSE OF THE CATALOGUE

The purposes of this catalogue are to give general information, to record the work of the year closing, and to make announcements regarding the coming year.

In the catalogues are published the official regulations for the next year. These are subject to change without notice each year, except as to the standards and requirements for degrees.

The courses of study here announced are those which will be offered during the ensuing year, but the College reserves the right to make changes in courses at any time. The College will offer, at the beginning of each semester, those courses listed for which there is adequate demand.

AIMS AND PURPOSES OF THE COLLEGE

The rules and regulations governing general student control and conduct, except as required by curricula announced in this catalogue are in full force and effect for government and control of the institution, faculty, and student body, beginning with the collegiate year for which the catalogue is published, and supersede rules and regulations announced in previous catalogues.

Texas Technological College has a definite task. It has been established by the State of Texas to make available to the young men and young women of the State instruction of college grade of a high rank, particularly in technological subjects leading to degrees such as are given by colleges of the first class.

It is the aim of Texas Technological College to afford the facilities of the College to those faculty members and students who may desire to carry on original research work leading to the development of the material resources of the State to their highest degree of usefulness. In addition, the College endeavors to maintain all agencies necessary to the physical, mental, and moral welfare of the students.

In all of the rules and regulations of the College and in all of the complete courses of instruction and curricula, care has been taken to provide each student with an opportunity to receive instruction which should promote good citizenship and sound thinking in addition to the technological instruction afforded.

The new student must make a decision as to the scientific and the vocational desires which will largely govern his selection of a curriculum to follow in the College.

Certain regulations have been set up by the College authorities for the purpose of assisting the student to secure the maximum benefit from his stay in college; likewise, there are certain definite methods of procedure which the student should follow and adhere to in his dealings with the College. In general these matters are discussed in the College Catalogue and should be read carefully by the student.

PROCEDURE FOR ADMISSION AND REGISTRATION

On arrival at the College September 8 to 12, the student desiring to register will receive a direction sheet. The new student desiring to register may do so by completing the following steps for registration. If these steps are completed in sequence as indicated, the student will avoid difficulties and delay.

1. Applying for Admission.

The new student should have furnished to the Registrar of the College a transcript of all of the applicant's credentials. See page 40.

2. Taking the Required Physical Examination. See page 66.
3. Establishing Local Residence. See pages 51-54.
4. Furnishing Record of Employment. See pages 46, 51.
5. Securing Permit to Register.
6. Paying Tuition and Fees, September 8 or later. See pages 41, 45.
7. Registering for Courses, September 11 and 12.

Registration is a matter of record and requires that the registration cards receive the signature of approval of the dean of the division. The cards are then filed with the Registrar with date of filing indicated on the card.

8. Completing Registration.

A student has completed registration and is regularly enrolled when he has completed the foregoing process.

Advisers, consisting mainly of the deans and the heads of the departments, have been appointed from the faculty for the purpose of counseling the students. The student should make use of this service from the beginning.

ADMISSION

The Registrar of Texas Technological College has charge of all matters relating to admission to any division of the College. All communications regarding admission requirements should be addressed to him.

REQUIREMENTS FOR ADMISSION

General Admission Requirements. Students—both men and women—who are of good moral character, who can meet the admission requirements herein set forth, including the college physical examination, and who are prepared and able to profit by college work will be admitted to the Texas Technological College.

Admission by High School Certificate. Graduation from an accredited high school or other accredited secondary school with a minimum of fifteen units of credit is required for admission to Texas Technological College. No credit may be obtained without graduation. Admission requirements are stated in terms of units. A unit represents nine months of study in a subject in a high school or other secondary school, constituting approximately one-fourth of a full year's work.

Divisional Requirements for Admission Without Condition. The following units, by groups, are required for unconditional admission to the Divisions of the College as listed:

Agriculture

- 3 units from Group A
- 2 units from Group B
- 4 units from Groups C, D, and E (2 units each from any two of these groups)
- 6 units from any combination of Groups A, B, C, D, E, F—not over 5 units from any one group.

Engineering

- 3 units from Group A
- 3 units from Group B (Algebra 2, Plane Geometry 1, or Algebra 1½, Plane Geometry 1, Solid Geometry or Trigonometry ½)
- 2 units from Group C (1 unit in physics required)*
- 2 units from Group D and E
- 5 units from any combination of Groups A, B, C, D, E, F, of which not more than 4 units will be accepted from Group F

*Students in the Division of Engineering who present fifteen accredited units which do not include the prescribed unit in physics may present one unit of chemistry and be admitted with condition, but will be required to take Physics 131-2 before scheduling sophomore physics. Physics is not required for admission to Commercial Art or Architecture, Design Option.

Home Economics

- 3 units from Group A
- 2 units from Group B
- 4 units from Groups C, D, and E (2 units each from any two of these Groups)
- 6 units from any combination of Groups A, B, C, D, E, F—not over 5 units from any one group.

Arts and Sciences

- 3 units from Group A
- 2 units from Group B
- 4 units from Groups C, D, and E (2 units each from any two of these Groups)
- 6 units from any combination of Groups A, B, C, D, E, F, of which not more than 4 units will be accepted from Group F

SUBJECTS ACCEPTED FOR ADMISSION

(The column under units shows the number which may be offered in each subject)

	Units		Units
Group A, English		Group D, Social Sciences (Cont'd)	
English	3-4	Contemporary Social and Economic Problems	$\frac{1}{2}$
Group B, Mathematics		Economics	$\frac{1}{2}$
Algebra	1-2	Sociology	$\frac{1}{2}$
Plane Geometry	1	Group E, Foreign Languages**	
Solid Geometry	$\frac{1}{2}$	French	2-4
Trigonometry	$\frac{1}{2}$	German	2-4
General Mathematics	1	Latin	2-4
Group C, Laboratory Sciences		Spanish	2-4
Applied Science	1	Czech	2-4
Biology	1	Group F, Vocational and	
Botany	1	Miscellaneous***	
Chemistry	1	Agriculture	$\frac{1}{2}$ -4
General Science	1	Advanced or Commercial	
Physics	1	Arithmetic	$\frac{1}{2}$
Physiography	$\frac{1}{2}$	Art	1-4
Physiology	$\frac{1}{2}$ -1	Bookkeeping	1-1 $\frac{1}{2}$
Zoology	1	Commercial Geography	$\frac{1}{2}$
Group D, Social Sciences		Commercial Law	$\frac{1}{2}$
Early European History	1	Drawing	1-4
Modern History	1	Home Economics	$\frac{1}{2}$ -4
English History	$\frac{1}{2}$ -1	Journalism	1
American History	$\frac{1}{2}$ -1	Music	1-4
World History	1	Public Speaking	$\frac{1}{2}$ -1
Texas History	$\frac{1}{2}$	Shop Work	$\frac{1}{2}$ -4
Civics	$\frac{1}{2}$ -1	Stenography	1-2
		Typewriting	$\frac{1}{2}$ -1

METHODS OF ADMISSION

High School Credentials. A student proposing to enter college should see that the high school principal forwards to the Registrar of the Texas Technological College, two weeks before the opening of the fall semester, or the spring semester, in which he is to be enrolled, a transcript of his work in high school or any other secondary school, showing that he is a graduate of an accredited high school.

Admission by Examination. In case a student is graduated from a high school which does not offer the full fifteen accredited units, he may enter the freshman class after passing such entrance examinations as will bring the total number of units up to the required fifteen. Such examinations may

**One unit in a foreign language may be offered as an elective unit.

***Units in Vocational Home Economics and in Vocational Agriculture may be substituted for units in Group C, except that this does not absolve the admission requirements of physics (or its substitute—chemistry) for admission to Engineering.

be taken at the regular designated periods, as set forth in the College Calendar. Under extreme necessity, at the discretion of the Registrar, these examinations may be given at other dates on the payment of a fee of \$2.50.

Admission by Teachers' Certificate. An applicant holding a teachers' certificate based on State examinations is requested to submit his report from the State Board of Examiners and he will be given high school credit for recognized subjects on which he has passed the State examinations.

Admission of Mature Students on Condition. On recommendation of the Registrar and at the discretion of the dean of the particular division, a mature student (twenty-one years of age or over) may be admitted on condition to college classes without having met the formal entrance requirements. A request for admission, accompanied by credentials including a transcript of all high school work, must be in the hands of the Registrar before the applicant presents himself. He must first apply for an interview at the Office of the Registrar two weeks before the opening of each semester, and then he may be directed to the dean of the particular division he wishes to enter for a personal interview. If the dean so advises, the applicant will then be given an examination which will determine his suitability for entrance.

Admission in this manner is allowed only in the case of an applicant who presents evidence that he has essentially completed the high school subjects required for regular admission, who shows by his record that he is above average in ability as a student, who has not recently attended school and therefore could not pass the entrance examinations.

Admission of a mature student on condition does not confer special privileges, but, on the contrary, puts the applicant under special obligations. Each applicant proceeds as follows:

1. He must make application on the official blank (to be obtained from the registrar), giving the information desired.
2. He must furnish evidence that he has substantially covered the work required for college entrance and that he has sufficient ability and seriousness of purpose to do the work desired with profit to himself and to the satisfaction of the College.
3. He must show by the writing of a composition that he has an adequate command of English.

Neglect of work or other evidence of lack of serious purpose on the part of a student thus admitted will cause the dean to withdraw approval, thus severing the student's connection with the College and preventing his re-admission until he has satisfied all admission requirements.

He cannot represent the College in any inter-collegiate activity or otherwise, or become a candidate for a degree until he has satisfied the admission requirements.

A student who is admitted as a mature student on condition, if he is assigned studies comprising a required curriculum and if he makes at least a grade point average of C in the first thirty hours to which he is assigned, thereby absolves all entrance requirements for that curriculum, which he has not otherwise met.

If this average is not made, then the prescribed units must be made up by entrance examinations or by extra college subjects before the beginning of the third semester in the College, or before assignment is made to any course which will raise the student's total number of credit hours in the College to more than thirty.

Admission with Conditions. To enroll regularly in the College, a student must present a certificate of graduation from an accredited high school with fifteen accredited units. These fifteen units must be distributed according to the pattern set forth under the admission requirements of the division in which the student plans to enroll. However, if he is able to present fifteen

accredited units, with graduation, which do not conform to the pattern of the requirements in mathematics, social sciences, natural science, or foreign language, he may be admitted to the freshman class on condition. (This does not include the English requirement for all divisions, nor the mathematics and physics requirements for the Division of Engineering.) Any conditioned first year freshman student who makes in his first long session or its equivalent, at least thirty semester hours with an average grade of C will thereby absolve his admission condition. Otherwise, the student must remove the condition: (1) by taking regular admission examinations in subjects not studied by this student in college; (2) by correspondence work taken in the Extension Department; (3) by transferring work done in college to high school credit. For the purpose of satisfying admission conditions, a course of six semester hours college credit counts as the equivalent of one and one-half high school entrance units. Courses used to absolve admission requirements will not count also toward a degree. Conditions may not be removed by taking admission examinations after the student has completed sixty semester hours of college work. They may then be removed only by transferring college work to high school credit.

Quality Provisions For Admission. Quality is more important than quantity in the matter of high school credits. Therefore, any applicant ranking in the highest quarter of his graduating class in any fully accredited secondary school may enter without admission conditions. (This does not exempt any student from the required three units in English, nor the usual mathematics or physics requirements in the Division of Engineering).

Applicants of Low Rank. As a rule, students who do poor work in high school do poor work in college. A student ranking in the lowest quarter of his graduating class is therefore strongly advised to complete an additional year of preparation before applying for admission to the college. If, however, after due deliberation, his parents still wish to have him enter at once, he will be admitted with a reduced load and given all the privileges accorded any other student, but will be placed on what is termed "special observation", and will be required to pass in at least two-thirds of his work. Otherwise he may not again register until after a lapse of one or more semesters.

Admission to Advanced Standing by Transcript of College Credits. A student who has made a satisfactory record in another college and can show honorable discharge from that college will be welcomed in Texas Technological College if he feels that his particular needs can be met better in this institution. In such case he should have the Registrar of the college last attended send a transcript of his college credits, including entrance units, to the Registrar of Texas Technological College. Such a transcript should certify honorable dismissal from the last institution attended and should be forwarded to the College at least five days before the date on which the student expects to enter. Transferring students are not allowed to register until the proper certificates are placed on file with the Registrar. Transferring students are cautioned not to disregard their attendance in another college and endeavor to enter Texas Technological College on their high school transcripts only. This is regarded as falsification of records. Cases of falsification of entrance records, or failure to present complete records made previous to coming to this institution, or attempts to evade records of attendance at other institutions are upon discovery referred to the Discipline Committee for action directly. A student transferring from another college will be expected to meet the requirements in his transferred work on the same basis as if he had had the work in this college; provided, however, any excess in transferred quality points will not be credited to his Tech requirement but any deficit will have to be made up before graduation from Tech. This College reserves the right to reject transfer credits carrying the lowest passing grade in the institution from which the student comes, particularly if the subject is a part of the student's major or if it is definitely foundation work for succeeding courses. All transferred credits are conditional and may be withdrawn if the work in Tech is of a low grade. Students whose grade record in another institution is consistently low or shows the failure of a considerable number of hours work may be refused admission or may be admitted on scholarship probation. Stu-

dents who for any reason are ineligible to continue in the school or institution last attended will not be admitted to this college.

Any transfer student who expects to be graduated from Texas Technological College must meet the regular requirements for graduation and must complete a minimum of thirty semester hours of credit in residence in this institution. This thirty hours must include a minimum of six hours in the major subject, which minimum may be increased to ten hours at the option of the dean.

As the College offers a number of degrees which require the fulfillment of widely different prescribed curricula, the acceptance by the Registrar of credits transferred from another institution does not guarantee that these credits and the subjects they cover entirely meet any given detailed part of any particular curriculum. Accepted transferred credits may be used to meet the requirements for graduation from this college only if the accepted credit is equivalent to required work in the curriculum the student elects to pursue in this College or is acceptable as an elective course. After the Registrar has accepted transferred credits, the student should consult with the dean of the division offering the curriculum he selects, to ascertain the suitability of his credits for meeting the requirement for any given curriculum offered in this catalogue. These consultations should be held before the date set for regular registration.

LATE ADMISSION

New students are cautioned to read the College Calendar in the front of this catalogue and to present themselves for admission on September 11 or 12 as provided therein. Late registration results in a reduction of the amount of work carried and in an additional fee.

EXPENSES

UNIFORM FEES AND DEPOSITS

Each state-supported educational institution in Texas is required by law to collect from all students tuition fees at certain specified rates. These fees are payable at the beginning of each semester and before the student's class cards are sent to the instructors. Under the law, the following charges are made each semester.*

Tuition. Tuition in all state institutions, including Texas Technological College is required by law of the State of Texas. For each student taking twelve or more semester credit hours, the statutory charge is \$25.00 per semester, or \$50.00 for the regular nine-months session. For students taking less than twelve hours, there is a reduction in the amount of tuition charged.

Registration and Tuition Fee for Non-residents.—The following is a law of the State of Texas:

Each non-resident student...shall be charged an amount equivalent to the amount charged students from Texas by similar schools in the state of which the said non-resident student shall be a resident, said amount to be determined and fixed by the governing boards of the several institutions in which said students may register, but in no event shall such amount be less than that charged to students resident in Texas. Provided, however, that if this paragraph shall be held to be unconstitutional or void from any cause, there shall be collected from each non-resident student the sum of one hundred dollars (\$100) for each semester. A non-resident student is hereby defined to be a student of less than twenty-one (21) 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 (12) months prior to the date of registration, or a student of twenty-one (21) years of age or over,

*Regular Session Forty-Third Legislature.

who resides out of the State or who has resided within the State for a period of less than twelve (12) months prior to the date of registration.**

These provisions will also apply to students coming from Alaska, Canada, Canal Zone, Cuba, Hawaiian Islands, Mexico, and the Philippine Islands. Students from any other country will pay a registration and tuition fee of \$100 per semester.

The burden of registering under proper residence is placed upon the student; it is the duty of each student, at or before registration, if there is any possible question of his right to legal residence in Texas under the State law and College rules, to raise the question with the Business Manager and have such question settled prior to registration. Attempt on the part of a non-resident to evade the non-resident fee will be taken seriously and may lead to expulsion.

A non-resident who applies for reclassification as a resident for fee purposes will be required to submit documentary evidence to show (1) that he has lived in Texas the required twelve months, and (2) that his intention to become a "legal resident" was formed at least twelve months prior to the date of such application. His evidence concerning item (2) must bear date at least twelve months prior to the date of application for reclassification. Evidence bearing date less than twelve months preceding the application will not be satisfactory.

Refund of the registration and tuition fee to non-residents will be made under the same conditions and in the same relative proportions as provided for resident students.

Non-resident fee for each semester, for residents of the various states, based on latest information but subject to change in accordance with changes made by the various states, is as follows:

Alabama, \$57.50. Arizona, graduate, \$25.00; all others \$100.00. Arkansas, \$33.00. California, \$100.00. Colorado, \$53.00. Connecticut, \$100.00. Delaware \$100.00. Florida, \$65.00. Georgia, \$100.00. Idaho, \$30.00. Illinois, \$62.50. Indiana, \$85.00; Engineering, \$100.00. Iowa, Engineering, \$79.00; Home Economics, \$64.00; Agriculture, \$65.00; Arts and Sciences, \$74.00; graduate, \$48.00. Kansas, \$75.00. Kentucky, \$60.00. Louisiana, \$50.00; graduate, \$30.00. Maine, \$100.00. Maryland, \$100.00. Massachusetts, \$100.00. Michigan, \$60.00; graduate, \$30.00. Minnesota, Engineering, \$65.00; all others, \$60.00. Mississippi, \$46.00. Missouri, \$83.00. Montana, \$45.00. Nebraska, Engineering, \$70.00; all others, \$52.00. Nevada, \$75.00. New Hampshire, \$100.00. New Jersey, \$100.00. New Mexico, \$50.00. New York, graduate \$92.50; all others, \$100.00; North Carolina, graduate, \$72.00; all others, \$90.50. North Dakota, \$46.50. Ohio, \$100.00. Oklahoma, \$25.00. Oregon, graduate, \$39.00; all others, \$100.00. Pennsylvania, graduate \$50.00; all others, \$100.00. Rhode Island, \$75.00. South Carolina, \$77.50. South Dakota, \$52.50. Tennessee, graduate, \$60.00; all others, \$100.00. Utah, Engineering, \$54.00; all others, \$48.00. Vermont, \$100.00. Virginia, graduate, \$25.00; all others, \$100.00. Washington, \$92.00. Washington, D. C., \$96.00. West Virginia, \$100.00. Wisconsin, \$100.00. Wyoming, \$30.00.

Non-resident fee for each semester, for residents of the United States possessions and foreign countries based on latest information, but subject to change in accordance with changes made by the various countries, is as follows:

**Sections of the non-resident fee law have been interpreted by the Attorney General of Texas to mean that: (1) a minor can not acquire a domicile of choice during his minority; (2) the residence of a minor follows that of the father, or if the father is dead, that of the mother; (3) if both parents are dead the residence of the minor follows that of the grandparent provided the minor lives with the grandparent; (4) the minor whose parents and grandparents are dead would not be assigned the domicile of any other relative with whom he lived; (5) a self-supporting minor who comes to Texas after the death of his parents who were residents of another state is a non-resident; (6) a person over twenty-one years of age must reside in Texas at least twelve months after attaining his majority in order to be classified as a resident student.

Provinces of Canada: Alberta, Law, \$55; Graduate, \$30; all others, \$42.50. British Columbia, consult business office. Manitoba, consult business office. Ontario, Arts and Sciences, \$50; Business Administration, \$67.50; Engineering and Law, \$100; Education and Graduate, \$25. Quebec, Engineering and Law, \$100; Business Administration, \$87.50; Graduate, \$35; all others, \$75. Saskatchewan, Law, \$60; Engineering, Pharmacy, Business Administration, \$87.50; Graduate, Arts and Sciences, \$45.

Alaska, consult business office. Cuba, consult business office. Hawaii, \$60. Republic of Mexico, \$25. Panama Canal Zone, \$25. Philippine Islands, \$25. All other foreign countries, \$100.00.

Uniform Breakage Deposit. The Breakage Deposit of \$7.50 for each semester is to cover breakage in all laboratory courses, library fines and losses of books, breakage or damage to property in Residence Halls and other State-owned buildings on the campus, and other charges for injury or loss of State property of the Texas Technological College. The unused portion of this deposit is returnable to the student on withdrawal or at the close of the college year. Should the student's laboratory breakage, library fines, or other charges mentioned at any time reduce the reserve on this deposit of any student below \$3.00, the student will be required, on notice from the Business Office and the dean of the division, to make an additional deposit to cover breakage for which the original deposit was made.

Medical Service Fee. The medical service fee is \$5 for the first semester of each scholastic year a student is in attendance and \$4 for the second semester of that scholastic year; if registration is for the second semester only, the fee is \$5. This fee is to cover physical examination and special tests, medical service in case of illness, and hospital, service as detailed under **Medical Service for Students**.

Student Activities Fee. The student activities fee for the first semester of each year is \$10.00 payable at the time of registration. The fee is divided as follows: \$6.00 to Athletics, entitling the student to admission to all games and contests played on the home grounds; \$0.44 to the Student Council; \$1.00 as a subscription to the Toreador, a semi-weekly publication; \$1.20 to the Matador Band; \$0.23 to Senior Livestock Judging Teams; \$0.125 to Dramatic Teams; \$0.20 to Intercollegiate Debate Teams; \$0.125 to Association of Women Students; \$0.265 to the Engineering Show; \$0.15 to Home Economics Club; \$0.10 to Plant Industry Judging Team; \$0.115 to Senior Dairy Products Judging Team; \$0.03 to Meats Judging Team; and \$0.02 to Y. M. C. A. and Y. W. C. A.

The fee for the second semester, for those students who did not pay it the first semester, is \$3.00 and is to be divided as follows: \$1.00 goes to Athletics and entitles the student to admission to all subsequent games and contests; \$0.30 to the Student Council; \$0.50 as subscription to the second semester issues of the Toreador; \$0.50 for the support of the Matador Band; \$0.175 to the Intercollegiate Debate Teams; \$0.175 to the Dramatic Teams; \$0.175 to the Senior Livestock Judging Team; and \$0.175 to the Association of Women Students.

Artist Course Fee. The Artist Course Fee of \$1.00, payable at the time of registration for each semester, entitles the purchaser to admission to all entertainment selected by the Artist Course Committee. This committee is composed of an equal number of students and faculty members. The Artist Course is a student enterprise sponsored by the Student Council.

Special Fee. A special fee required for typewriter rental in courses in typewriting. See courses in secretarial training, **Department of Economics and Business Administration**.

Visitor's Fee. A fee of \$5 for each course is required of a person visiting any course subject to the provisions under **Auditing Courses**.

Payment of Fees. Payment should be made in cash or by cashier's check or money order, payable to Texas Technological College. All checks, money orders, and drafts are accepted subject to final payment. If a check or draft

accepted by the fiscal office as cash is returned unpaid by the bank on which it is drawn, the person presenting it will be required to pay a service charge of fifty cents.

Any student failing to register and pay fees within three days from the regular registration period shall be required to pay an additional service charge of \$2.

The student activities fee and Artist Course fee are charges that have been voted by members of the student body themselves and entitle students to admission to all athletic events and all Artist Course numbers that are sponsored by the College. The faculty heartily endorses these fees, but the payment of them is not obligatory on the part of the students.

Exemption from Tuition by Reason of Enlistment. Men and women enlisted in the service during the World War, who are citizens of Texas, are exempted from State tuition. The discharge papers or service record of the student must be presented to the auditor or fee checker at the beginning of each semester. All deposits are required of ex-service students.

Return of Fees. Occasionally the student finds it necessary to change his plans, and consequently there are some requests for return of fees either just at the start of a semester or soon thereafter. Fees are not returned until two weeks after date of payment indicated on the receipt for payment of fees.

In the long session and after registration is completed, students may secure a return of a portion of fees as indicated below only by the regular procedure for withdrawal through the dean of the division in which the student is registered (see page 64). The refunds are permitted in the following amounts: (1) before the end of the first week of class work in a semester, eighty per cent of tuition fees; (2) during the second week of class work, sixty per cent; (3) during the third week, forty per cent; (4) during the fourth week, twenty per cent; (5) during the fifth week or thereafter, nothing. A student who enters the second semester not knowing his first semester grades, and whose second semester registration is canceled because of failure in his work in the first semester, will have all his tuition fees for the second semester refunded.

In the summer session any student withdrawing officially during the first week of classwork in either term will receive a refund of fifty per cent of his tuition fees. A student who withdraws after the first week of either term will receive no refund. In case of withdrawal during the first summer term, if second term fees have been paid, they will be refunded.

If application for refund of fees is made before the applicant has completed registration for any semester or summer term, fees will be refunded in full. The process is as follows: (1) returning the "Application for Registration" card to the dean of the division in which the student has planned to register; (2) securing the dean's endorsement of a notification to the Business Office that the applicant has surrendered the registration card and therefore cannot register; (3) returning to the Business Office the receipt of fees paid, together with the notification from the dean. The fees will then be refunded after proper time has elapsed.

No refund on unused balance of deposits will be made to any student until at least ten days after the student withdraws from college during a semester, or at least ten days after the end of a semester following which the student does not immediately re-register in the institution. In the latter case refund is made without an application.

No refund will be granted unless applied for within one year after official withdrawal. The date on which a student signs his application for withdrawal will be regarded as the date of official withdrawal. A refund is made to the student in person or on a properly attested written order accompanied by his receipt for tuition fees.

In no cases are fees refunded to a student suspended from College by the College authorities.

The medical service fee is not refunded either in long session or in the summer session.

TEXT BOOKS AND SUPPLIES

Text books and supplies may be purchased from the College Bookstore. The Bookstore also handles secondhand books, thus giving opportunity for students to reduce expense on these items. Adequate and efficient work cannot be done in college without the purchase of necessary text books and other equipment required in college courses. The College endeavors to keep these costs as low as possible.

SPECIAL COURSES IN MUSIC

By special arrangement and approval of the Board of Directors, specially approved artists and teachers offer credit courses in music and are authorized to charge fees for applied music covering a full range of instruction in voice, piano, violin, viola, cello, bass, and brass and reed instruments. Instruction is generally given at the rate of two lessons a week carrying college credit. This credit is not given, however, unless the student is duly enrolled in the applied music class held once each week and supervised by the head of the department. No extra tuition is charged for this class.

Pianos may be rented for practice purposes at reasonable rates. For further discussion of courses, and fees for special courses, see **Department of Music** in this bulletin.

BOARD AND ROOM

The average cost for board and room for the long session is about \$225 either in College dormitories or private homes. The cost will vary with the quality of accommodations and the distance from the College. Students are not permitted to room in privately owned houses until such houses have been inspected and approved. For details of cost of room and board in the dormitories and complete housing regulations, see pages 51-55.

Lists of approved rooms in private homes may be obtained from the Office of the Dean of Men or the Office of the Dean of Women.

ESTIMATE OF ANNUAL COST

An estimate of the annual expenses, by semesters, for one long session of nine months follows:

	First. Sem.	Second Sem.
Tuition fees	\$25.00	\$25.00
Breakage deposit*	7.50	7.50*
Medical service fee	5.00	4.00**
Student activities fee	10.00	***
Artists Course fee	1.00	1.00
Board and room in College residence halls	119.40	110.00
Books and incidentals (estimated)	25.00	25.00
Laundry and pressing (estimated)	15.00	15.00
Totals	\$207.90	\$187.50

For immediate costs, it will be estimated from the above statement that the new student should have available not less than \$100 at the time of enrollment.

*If no charges are made against the breakage deposit during the first semester, the deposit carries over and no additional deposit need be made for the second semester. The remainder at the close of the long session is refunded.

**For a student not in residence during the first semester, the medical service fee is \$5 for the second semester.

***The \$10 is for the long session. Students not in residence the first semester who desire to participate in the student activity benefits during the second semester pay \$3 activity fee.

This is a minimum. The maximum is governed by the amount expended on books and incidental expenses. The cost of books varies under the different curricula of the College from a minimum of \$10 to a maximum of \$25. Engineering students are required to purchase their own drawing equipment, costing approximately \$30.

STUDENT AIDS AND AWARDS

STUDENT EMPLOYMENT

A student will find it exceedingly difficult to earn sufficient money to pay all expenses of a college education during his residence in college. A limited number of students find it possible to earn sufficient money to pay for room and board while attending college; a few find it possible to earn all their expenses. These generally are students in the upper classes who have developed special skill or acquired certain knowledge making them eligible for the few jobs connected with the College and in Lubbock which pay enough money to cover their entire expenses.

The College has two student employment bureaus, the one for women students in the Office of the Dean of Women, and the one for men students in the Office of the Dean of Men. The function of these bureaus is to aid worthy students in finding employment of a nature and under conditions suitable for students. No student should come to Texas Technological College with the expectation of carrying a full course of study and of reserving many hours for outside employment, since this would leave the student insufficient time to do creditable classroom work and would not be conducive to good health. As far as possible, the student employment bureaus will aid worthy young men and women who are possessed of good health and character and a pleasing personality, combined with industry and reliability, in finding such jobs as may be available either at the College or in the City of Lubbock. No student should make application to the bureaus of student employment until his credits have been accepted and his application for entrance approved by the College.

High school graduates or former students of the College wishing to secure application blanks for N. Y. A. employment should write either to the Dean of Men or to the Dean of Women, June 1 to August 1, inclusive, for these blanks. At the present time, N. Y. A. regulations provide: that only those persons who cannot otherwise attend college are eligible for appointment; that they must be more than sixteen years of age but must not have reached their 25th birthday; that the minimum amount of earnings for which they may be assigned is \$10.00 per month and the maximum amount, \$15.00 per month. Owing to the great number of applications received, the applicant's potentialities for satisfactory college work must necessarily be considered.

A number of students are employed by various departments of the College. Preference is usually given to upperclassmen who have acquired skill and experience or are acquainted with the College routine, but some such jobs are available to newly entered students.

Students who are working for support while attending college must report such employment to the Dean of Men or the Dean of Women, and through one of those offices to the dean of the division in which the student is registered. The dean of the student's division may limit or reduce the assignment of students who are working to conform to the student's proved ability and to avoid failures, low grades, or overwork which might endanger the student's health.

LOAN FUNDS

Texas Technological College has a number of funds from which loans may be made to worthy students to assist them in paying the expenses of a college education at Texas Technological College. Some of these funds are small and are available only to certain groups of students. In case of others, the principal sum is invested, and only the income from the fund is available for loans to students.

LOAN FUNDS ADMINISTERED BY THE COLLEGE

George T. Morrow Loan Fund of \$20,000 was left to the College by the late George T. Morrow, a prominent businessman of Lubbock for a number of years. Application should be made to W. T. Gaston, Business Manager.

Will C. Hogg Loan Fund of \$25,000 was made available to the College by the will of the late Will C. Hogg of Houston, Texas. It is administered by the Board of Directors appointed in accordance with the directions of the will of Mr. Hogg. Application should be made to Dr. H. L. Kent, Secretary.

Dr. R. J. Hall Loan Fund was established as a bequest by Dr. R. J. Hall of Lubbock.

Freshman Loan Fund. There is a small loan fund available for freshmen made up from a portion of the proceeds of the sale of freshmen caps each year by a local business firm. Loans from this fund are limited to approximately \$25 and do not extend beyond the end of the current semester. Application should be made to Dean J. M. Gordon.

Twentieth Century Club Loan Fund amounts to \$500. At the interest rate of five per cent, loans are made either to men or to women, with preference being given to upper classmen. Applications should be made to Dr. H. L. Kent, Secretary.

LOAN FUNDS NOT ADMINISTERED BY THE COLLEGE

Anne Johnston Ford Student Loan Fund of the Nancy Anderson Chapter of the Daughters of the American Revolution is a small fund available to junior and senior students who meet requirements. Applications should be made to Mrs. O. V. Adams, 2909 20th Street, or Mrs. R. T. Bucy, 2219 17th Street, Lubbock, Texas.

The Paul Whitfield Horn Memorial Fund—established by the Quarterly Club, the Council of Women Graduates, and Las Leales Club—is a loan fund available only to graduate women: graduates of Texas Technological College who wish to do graduate work at Texas Technological College or another institution of higher rank; or women graduates of other colleges who may wish to avail themselves of the fund in order to do graduate work at Texas Technological College. Application forms for this loan fund may be obtained in the office of the Dean of Women.

The Lubbock Business and Professional Women's Club Loan Fund. The fund amounts to \$250. It is available to any unmarried woman student at ten per cent interest. The fund was started the year the College opened and is lent on the basis of scholarship and character, and upon recommendation of Dean Mary W. Doak. Application should be made to Mrs. J. J. Smelser, 1630 14th Street, Lubbock, Texas.

Athenaeum Club Loan Fund. This fund was started in 1926. It is available to any worthy woman student. Application should be made to Mrs. T. C. Delaney, 2303 10th Street, Lubbock, Texas.

Rotary Loan Fund. This fund was established by contributions of members of the Rotary Club of Lubbock. The principal of this fund now amounts to approximately \$8,000. Loans may be made in small amounts to upper-classmen who have attended the College a year or more and have demonstrated their worthiness and ability. Application should be made to Dean J. M. Gordon, Chairman, Rotary Loan Fund Committee.

The City Federation Loan Fund. This loan fund, established by the city Federation of Women's Clubs of Lubbock bears interest rate of four per cent. Application should be made to Mrs. Mary W. Doak, Dean of Women.

The Houston City Panhellenic Association Loan Fund. This association has an available fund from which loans may be made to junior or senior women students who are residents of Harris county. Students interested in applying for a loan should see Mrs. Mary W. Doak, Dean of Women.

Home Economics Club Loan Fund. This fund, known as the Margaret W. Weeks Loan Fund, was established during the first year of the College by the Home Economics Club of the College. This organization raises funds by means of a sale about Thanksgiving time each year. Money is lent on the recommendation of the Home Economics Club Council and with the approval of Dean Margaret W. Weeks. This fund is open to Home Economics students who have need of assistance. Five per cent interest is charged. Application should be made to Dean Margaret W. Weeks.

Engineering Society Loan Fund. The Engineering Society maintains a loan fund which is available to advanced engineering students. Application should be made to Prof. J. H. Murdough.

Agricultural Club Loan Fund. The Agricultural Club has founded a small loan fund. Loans from this fund are limited to use in emergencies among agricultural students and may not exceed \$25 or extend longer than four months. Application should be made to Prof. M. G. Pederson.

Lending Library for Women Students. A textbook loan service for women students has been established. By means of this service, a limited number of textbooks are available to women students needing financial assistance to attend college. Preference will be given applicants who are working for room and board. A fee of ten cents a semester is charged for use of the books, which have been placed in the Dean of Women's Office by members of women's social clubs. The student should make application for books through the Dean of Women's Office.

SCHOLARSHIPS, ASSISTANTSHIPS, AND FELLOWSHIPS

All scholarships offered for work done in the College are supported by funds paid to the College for that purpose. When a student has been awarded a scholarship, the disbursements are paid to him at the rate of fifty per cent for the fall semester and fifty per cent for the spring semester. Scholarships which are inactive, due to resignation or non-attendance of the holder in the next succeeding year, will be regarded as vacated and may be filled in the usual way.

SCHOLARSHIPS AND PRIZES

High School Honor Student Scholarships. Because the faculty and directors of Texas Technological College have always recognized the intrinsic value of high scholastic achievement, every means is taken to promote and to stimulate this ideal. The first Called Session of the Forty-third Legislature made it legal for the governing boards of State-supported colleges to confer scholarships on the honor students of accredited high schools. Such a scholarship entitles the student to tuition amounting to the sum of \$50 free for one year. This scholarship is available to a student for the year following graduation from high school, only.

By agreement between the State-supported colleges, one scholarship each year will be granted to the highest ranking graduate of the year preceding from each accredited high school in the State. Only one such scholarship is granted to each student, who may choose the State-supported college in Texas which he will attend and where he will use this scholarship.

It is necessary that the honor student's name be sent to the State Department of Education immediately after the close of the high school term in the Spring. The State Department of Education prepares the list of honor graduates for the regularly accredited high schools each year and furnishes this list to each of the State-supported colleges.

The LaVerne Noyes Scholarships. The LaVerne Noyes Foundation has approved Texas Technological College to participate in the funds of a foundation created by the late LaVerne Noyes of Chicago. The income allotted to the College may be used for the payment of tuition of veterans of the World War, or the sons or daughters of such veterans, provided need of assistance to attend college can be established.

These scholarships are for tuition only, amounting to \$25.00 each semester for the long session. Only a limited number of such scholarships are available. They are awarded on the basis of need and in the order in which applications are received. Applications for scholarships should be made to the President of the College, who will furnish forms to be filled out as formal applications. The applications are then examined by a committee, and the awards made either late in August or early in September, for the succeeding college year. Scholarships once awarded are good for four years, provided funds are available, and provided the holder of the scholarship maintains a satisfactory record, but they must be renewed by application each year.

Sears Roebuck and Company Scholarships. Sears Roebuck and Company has approved Texas Technological College to receive certain scholarships for the benefit of students in the Division of Agriculture. For the year 1941-42 there will be available twenty freshman scholarships of \$100 each and one sophomore scholarship of \$200. This latter scholarship will be given to one of the freshmen who received scholarships in the previous year. For the year 1940-41, Sears Roebuck and Company awarded one \$100 junior scholarship to the winner of the sophomore scholarship of the previous year. The scholarships are awarded for the long session, being renewed for the second semester provided the holder of the scholarship maintains a satisfactory record. The scholarships are for two semesters, and the funds are available one-half for the first semester and one-half for the second semester. Correspondence concerning this scholarship should be addressed to the Head of Department of Agricultural Education.

Roscoe Wilson Memorial Scholarship in Foreign Languages. A stipend of \$30 a month for nine months each year will be paid to a student majoring in foreign languages, from the income of a fund known as the "Roscoe Wilson Memorial Fund". The selection is made in the spring by the staff of the Department of Foreign Languages. Applications should be addressed to the Head of the Department of Foreign Languages.

Mrs. J. T. Hutchinson Scholarship. The sum of \$100 will be awarded annually to the journalism major of sophomore or junior standing with the highest scholastic average for the year. This money will be available for college expenses in the following college year.

Avalanche-Journal Scholarship. The sum of \$50 will be awarded annually to the journalism major of junior standing who does the best work in reporting in the fall semester. This money will be available for college expenses in the following college year.

Wilbur C. Hawk Memorial Scholarship. The sum of \$50 will be awarded annually to the journalism major of junior standing who does the best work in reporting for the spring semester. This money will be available for college expenses in the following college year.

Fellowships. A limited number of fellowships are available from time to time in certain departments. They are open to graduate students who qualify as candidates for the Master's Degree. Inquiries concerning these fellowships should be addressed to the head of the department in which the student desires to complete the major portion of his graduate work.

Assistantships and Graduate Assistantships. Practically all departments of the college use assistants. Preference is usually given to graduate students majoring in the particular department, though advanced undergraduate students are also employed. The character of the work and the stipend varies with the department and with the character of the work to be performed. For further details the student should address the head of the department in which his major work is to be done.

The Texas Cotton Seed Crushers' Graduate Fellowship (a research fellowship) of \$500, which has been awarded to a graduate student in animal husbandry for the past three years, was continued for the year 1940-41. Applications for appointments for future years should be addressed to the Head of the Department of Animal Husbandry.

PRIZES AND AWARDS

The following awards are offered annually:

Standefer-Canon Trophy to the student among the Varsity football let-termen making the highest scholastic standing for the year. That student's name is to be inscribed on the bronze football plaque in the athletic trophy room. In addition, he is to receive a very beautiful raised two-color gold foot-ball properly inscribed.

Lubbock Pan-Hellenic Society Prize of \$50 to the freshman student in the Division of Home Economics making the highest grades in all her work for the year.

Gargoyle Club Prize to the freshman student doing the best work either in architecture or commercial art.

Faculty of the Department of Architecture and Allied Arts Prize to the student doing the best work in architecture.

Mary Overton Craig Prize in Chemistry given by Dr. and Mrs. William M. Craig in memory of Mary Overton Craig to the young man of the sophomore class who shows the greatest promise as a future chemist. (For details of eligibility, apply to Head of Department of Chemistry.)

The West Texas Geological Society Award, at the June, 1941 Commencement, of a two-year, paid-up membership in the American Society of Geologists to the outstanding senior student (graduating either in June or in August) in the Department of Geology.

American Society of Mechanical Engineers Award of a book presented to the most valuable member of the local branch of the American Society of Mechanical Engineers for the past year's activities.

National Association of Cotton Manufacturers annual award to the highest ranking senior student in textile engineering.

Lubbock Chapter, Reserve Officers' Association Saber Award to the third year student registered for Military Science and Tactics making the highest composite rating in the following subjects: scholastic grade, appearance, rank held, attendance, interest, and proficiency in the cadet organization.

Allen Brothers Post No. 148, American Legion Medal Award to the first year student registered for Military Science and Tactics making the highest record score in gallery range rifle marksmanship.

Post. No. 2466, Veterans of Foreign Wars of the United States Medal Award to the first year student registered for Military Science and Tactics showing the greatest progress in this subject as the result of the first year's instruction.

HONORS

Honor Roll. At the close of each semester the Registrar's Office issues an honor roll which includes the names of all students who, during the semester, have been registered for not less than twelve semester hours of work and who have ranked in the upper five per cent of the student body in the quality of grades made in such work, without having received any failing, conditional, or incomplete grades.

Senior Honors. At the annual spring commencement, announcement is made of the name and grade point average of (a) that member of the graduating class who has made the highest grade point average in the class and (b) that graduate of each division who has made the highest grade point average among persons graduating from that division.

Graduation With Honors. Those members of the graduating class who complete their work with a grade point average of 2.8 or above are graduated with High Honors and those who complete their work with a grade point

average of 2.5 or above but less than 2.8 are graduated with Honors. Appropriate designation of this distinction is made on the commencement program.

Women's Recognition Service. A Recognition Day honoring women students who have done outstanding academic work and who have demonstrated their leadership and cooperation in extra-curricular activities is held annually on the second Tuesday in May. The awards are made by a joint faculty and student committee. The student representatives are the president of the Association of Women Students, the president of Phi Upsilon Omicron, the president of Forum, and the president of the Women's Self-Governing Association.

REGULATIONS FOR STUDENTS

SUPERVISION OF STUDENT LIFE

THE DEANS OF DIVISIONS

The Deans of the Divisions of the College have general executive responsibilities pertaining to the scholastic work, education, and training of the students registered in the respective divisions. They are specifically in charge of the students' academic work, study schedules, scholastic records, absences for any reason, withdrawal from college, curriculum requirements, registration approval, and other matters pertaining to the students' graduation requirements. They have general responsibility for student organizations within the division; they are also charged with the functioning of that division of the college work in an executive capacity. Students should understand that the office of their dean is the place where general counsel, advice, and direction may be sought in all matters pertaining to their relation to the College.

THE DEAN OF MEN

The Dean of Men is a member of the faculty committees on Student Housing, Student Employment, Social Activities, Convocation, and Discipline for Men. In some cases, he represents these committees in an executive capacity. Houses in which men students room or board are under his supervision as a member of the Student Housing Committee. Men students must secure his approval of their places of residence during their connection with the College and may not change their places of residence during the semester without his approval. Men students who work for self-maintenance report such employment to him as a member of the Student Employment Committee; they may secure guidance and help in obtaining employment and must supplement their employment reports as changes occur. He is available as an adviser for general organizations among the men and for consultation with students concerning matters of personal health and moral welfare, social affairs, work for self-support, and more personal problems. He also has general supervision of the conduct of men students on the campus and in the college dormitories.

THE DEAN OF WOMEN

The Dean of Women is a member of the faculty committees on Student Housing, Student Employment, Social Activities, and Discipline for Women. In some cases, she represents these committees in an executive capacity. Houses in which women students room and board are under her supervision as a member of the Student Housing Committee. Women students must secure her approval of their places of residence during their connection with the college and may not change places of residence during a semester without her approval. Women students who work for self-maintenance must report such employment to her as a member of the Student Employment Committee. They may secure her guidance and help in obtaining employment, and must supplement their employment report as changes occur. She is available as an adviser for general organizations among the women and for consultation with students concerning matters of personal health and moral welfare,

social affairs, work for self-support, and more personal problems. She also has general supervision of the conduct of women students on the campus and in the college dormitories.

SPONSORS

Texas Technological College requires that any student organization must be under the supervision of a faculty sponsor. The sponsor for a general organization must be approved by the Committee on Social Activities. The sponsor is charged with general supervision of the organization, its activities, and the conduct of the members in all of their relations with the organization. The sponsor of a student organization within the division is approved by the dean of that division.

HOUSING REGULATIONS FOR STUDENTS

BOARD AND ROOM IN THE DORMITORIES

Dormitories: The Texas Technological College has four residence halls for students, two for men and two for women. Each of these hall is fire-proof in construction, well furnished, fully equipped with adequate, modern facilities for furnishing meals, and includes also proper recreational rooms to minister to the social life of the students.

In order that the Texas Technological College may care for students properly, and particularly exercise good care and training for freshmen, the following regulations have been adopted concerning the living of students in the College residence halls:

All students who do not live in Lubbock are required to live in the College-owned dormitories, or cooperative houses to the full capacity of these residence halls. (The present capacity is less than one-third of the student body; hence early application for reservation is advised. Those who cannot secure reservations proceed in accordance with **Housing Regulations for Students Not Living on the Campus**. See the following paragraphs.

The College considers it a distinct advantage to the students to live in the dormitories on the College campus. These buildings will be used by the administrative authorities in charge to improve the social and educational life of those who occupy them.

These dormitories will be made the chief centers of social life of the students, and every effort will be put forth to make them a real means of education contributing to the social training of those who reside in them.

Payments for room and board may be made as follows:

- \$13.90 (regular double room) plus \$5 deposit, or total of \$18.90.
- \$27.50 (regular double room) on or before October 10.
- \$27.50 (regular double room) on or before November 10.
- *\$18.00 (regular double room) on or before December 10.
- **\$27.50 (regular double room) on or before January 10.
- \$27.50 (regular double room) on or before February 1.
- \$27.50 (regular double room) on or before March 10.
- \$27.50 (regular double room) on or before April 10.
- \$27.50 (regular double room) on or before May 10.
- Payments for corner double room will be \$28.50.
- Payments for single room with private bath will be \$34.50.
- There will be an extra charge if payments are not made when due.

Students who move out of the dormitories during a month for which

*Students will not be permitted to remain in the dormitories during the Christmas holidays.

**Students who do not register for the second semester must vacate rooms not later than January 28.

The student's regular breakage deposit, mentioned under Fees and Expenses, which covers breakage in laboratory courses, library fines, and injury or loss of State property, also covers breakage or injury to property in the dormitories, or to the dormitories.

board and room has been paid forfeit the room rent for the remainder of the month and three days board.

A small monthly fee will be charged for electrical equipment, such as radios, and irons, in student rooms.

Each student is required to furnish his own linens, bedding, pillow, and towels. All rooms are equipped with single beds, springs, and mattresses, tables, and other furniture, and large closets.

The College reserves the right to alter the charge for room and board in case there should be a material change in the cost of food or other services, making such a change necessary, but such change will not be made without due notice to all students. It is the aim of the College to conduct the dormitories as economically as possible and to furnish room and board at the lowest possible figure consistent with the service rendered and the proper use of the dormitories.

All applications for room reservations in the dormitories should be addressed to Miss Mozelle Craddock, Manager of Dormitories, Texas Technological College, Lubbock, Texas. Each application must be accompanied by a deposit of \$5 if the applicant expects a reservation to be made for him, or to be assigned a place on the waiting list. When the student takes up residence in the dormitory to which he is assigned, this deposit will be credited on the payment of the first month's room and board.

The \$5 deposit on a room for the regular session is refundable up to and including August 15. Failure to report late arrival, in writing or by wire before the opening of the school session, will forfeit the room and deposit. No one will be permitted to transfer a room deposit or reservation to another person.

Casa Linda. Cooperative House. The cooperative house is a two-story stucco residence, completely furnished except for bedding and linens which the students are expected to furnish. This house cares for seventeen women students under the direction of a graduate student. The work is done by the students themselves. A charge of \$17 a month is made. At the end of the month any excess of the cost is returned to the student. This cooperative house furnishes a fine opportunity for cooperative living in a dignified and pleasant environment. Application for residence in the cooperative house must be made through the office of the Dean of Women.

HOUSING REGULATIONS FOR STUDENTS NOT LIVING ON THE CAMPUS

For the benefit of students who are permitted to room in private boarding houses, when the full capacity of the residence halls on the campus has been reached, the College maintains a faculty committee on student housing. In case a student has first obtained from his dean written permission to room and board in some other place besides the regular College residence halls, this committee will designate certain approved rooming and boarding houses. The College retains the right to fix or to change any student's place of residence, should such a change become necessary for the best interest of the student. Any complaint regarding care of rooms, improper food, disorder, or any other condition making a house undesirable should be reported to the housing committee. Students who are permitted to room in private boarding houses should pay for room and board in advance; however, the College does not assume any responsibility for payment or collection of such bills.

Inspection and Approval. To be approved as a rooming house for students, the house must be inspected and approved by the committee and must meet the following conditions fully:

1. The house must be kept in a state of good repair and adequately provided with sewer connections, hot and cold running water, screens, heating and lighting facilities, and telephone.

2. The proprietor must be of good moral character and must agree to cooperate with the College in carrying out approved housing regulations.

3. The proprietor must live in the rooming house at all times and exercise supervision over the students therein.

4. Proprietors are required to report immediately all cases of serious illness of students both to the College physician and to the Dean of Women or Dean of Men.

5. The proprietor is required to report any unexplained absence of a student to the dean of the division in which the student is registered.

6. Proprietors are required to report immediately any serious misconduct of the students.

7. Proprietors are required to report immediately a prospective change of residence of students in their care.

8. Men and women students are not allowed to room at one place, and not more than two students are permitted to live in one room. Proprietors are held responsible for violations of these regulations.

9. Rooming house proprietors are required to see that proper conditions for study are maintained. During the usual study hours at night, quiet should be maintained and unnecessary visiting prohibited. Habitual failure to study on the part of any student should be reported to the Housing Committee and to the student's academic dean.

10. All reports concerning men students should be made to the Dean of Men, and reports concerning women students should be made to the Dean of Women. Failure to make such reports, or to cooperate fully with the College, will necessitate the withholding of approval of a rooming and boarding house.

11. No keeper of any boarding house or rooming house shall solicit students on the campus while such students are engaged in the process of registration.

12. The College reserves the right to dissolve the housing agreement with a proprietor at any time.

13. Additional housing regulations may be put into effect by the Housing Committee at any time during the year.

SPECIAL REGULATIONS APPLYING TO MEN STUDENTS NOT RESIDING WITH THEIR PARENTS

1. A student may change his place of residence during the semester only with the permission of the Dean of Men.

2. Moving from one house to another in violation of paragraph 1, without permission in advance, will subject the student to serious disciplinary measures.

3. During the usual study hours at night, in order that conditions for study may prevail, quiet is to be maintained and unnecessary visiting is prohibited.

4. The Housing Committee does not consider it desirable for students to live in bachelor quarters. Only in special cases will permission be granted to men students to live in garage or other apartments where they are not under the direction of some responsible person who has the approval of the committee. In such cases the student must secure the written permission of the Dean of Men and the dean of his division. Generally speaking this permission will not be given by the deans unless the student finds it necessary and proposes to prepare the major portion of his meals.

SPECIAL REGULATIONS APPLYING TO WOMEN STUDENTS NOT RESIDING WITH THEIR PARENTS

1. In accordance with a ruling of the Board of Directors, all woman students not residing in Lubbock, shall, to the full capacity of the dormitories, room and board in the women's residence halls. In event that the women's residence halls should prove inadequate to care for all out-of-town students, senior halls will be provided for senior women.

2. After consultation with the Dean of Women, graduate students will be permitted to make special arrangements for living quarters.

3. A student who engages room, or room with board, may not change

her place of residence during the semester except by request of the proprietor, or by permission of the Dean of Women. Two weeks notice is required before a change becomes operative.

4. A student who is sent to the hospital shall continue to pay her room rent in full for the month and shall pay board in full for the first three days.

5. Monday, Tuesday, Wednesday, and Thursday nights during the school session are definitely reserved as study periods. For this purpose quiet hours shall be maintained every night after 8 p. m. Friday and Saturday nights should be used for study by students in general, but engagements may be taken for such nights, holidays, and nights preceding holidays. This rule applies to all women's rooming houses and dormitories.

6. Upper classmen maintaining a general average of B and a clear discipline record will, upon request, be accorded special social privileges. A definite statement of these privileges will be sent to the housemother, and a copy of the privileges will be kept in the Dean of Women's office. In no case shall these privileges conflict with the general regulations of the hall.

7. Housemothers are expected to report at once all absences, all cases of illness, and infractions of the general rules.

8. Women students are not permitted to go to the dormitories and boarding houses of men students except upon special invitation and after arrangements with the Social Activities Committee.

9. Students will be permitted to use automobiles when going back and forth from school and attending social affairs.

REGULATIONS AFFECTING STUDENT CONDUCT

Every student registered in Texas Technological College is expected to obey the laws of the State of Texas, of the United States of America, and the local laws of the City of Lubbock. He is expected to conform to the rules of ethics and of gentlemanly conduct; to respect the rights of others; to be truthful; to attend punctually and regularly all required classes and exercises; to be diligent in his studies; and to preserve and respect the College property and the property of individuals.

The discipline of students is in the hands of faculty committees: one committee for men, of which the Dean of Men is chairman; and one committee for women, of which the Dean of Women is chairman. These committees are fact-finding committees which make their recommendations to the President of the College.

For further disciplinary matters, see the following sections on absences from classes and other regulations.

SUSPENSION FROM COLLEGE

Any student who proves himself to be an unworthy citizen of the college community by actions destructive to the standing and objectives of the college as an educational institution, or who fails to react in the proper way to counsel given him in the endeavor to correct his attitude toward his work in college or toward the college itself, shall be dropped from the college roll either by an order of expulsion, or by suspension for a definite term, or by indefinite suspension. A student suspended from the College must remain off the College campus during the period of his suspension except when keeping a previously arranged appointment with, or when summoned by, an administrative official of the College. In no case will fees be remitted to students suspended from college by college authorities.

A student who discontinues class attendance and makes no reasonable effort to secure withdrawal may be placed on suspension by the dean.

A student suspended for disciplinary reasons, or required to remain out of college for scholastic reasons for one semester or more, is required to petition the Administrative Council for re-admission before he may again register. If approval of the Administrative Council is not secured, the student may not register.

When a student is suspended from the College, the grades will be given in accordance with the paragraphs on grades in the same manner as in the case of withdrawal.

HAZING

Hazing is forbidden by the laws of the State and by College regulations. Every student is pledged upon registration to obey all the laws of the State, and particularly to obey this law. Chapter 4-A of Title 15 of Vernon's Criminal Statutes of the State of Texas specifically forbids students at any state institution to engage in what is commonly known and recognized as hazing or to encourage, aid, or assist any other person thus offending. The Statutes particularly define hazing and require not only that students shall obey the law, but that teachers of the institution shall enforce it. The full cooperation of the faculty and student body must be directed toward the entire elimination from this institution of any and all practices coming within the very complete definition contained in the Texas law.

WARNING ON STUDENTS' CHECKS

Students are urged to exercise care in paying fees or making campus purchases by check. A returned check calls for a penalty of fifty cents, which will be charged against the student's breakage deposit. A student issuing such a check may, upon the notification of the Business Office, be immediately suspended by his dean and may be reinstated only upon petition to, and favorable action by, the College Administrative Council. The College will not accept a check from a student who has once been suspended for giving a worthless check.

ACADEMIC REQUIREMENTS FOR STUDENTS

SPECIAL ACADEMIC REGULATIONS

Regulations in the Division of Arts and Sciences. In all matters pertaining to academic work, men and women students are responsible to the Dean of Arts and Sciences, except that women students are responsible to the Dean of Women in the following matters:

- a. Absence from classes.
- b. Honorable dismissal from College.
- c. Scholarship probation.
- d. Change in schedule.

Regulations in the Divisions of Home Economics, Engineering, and Agriculture. When desirable, women students in the Division of Home Economics, Engineering, and Agriculture may be referred to the Dean of Women for consultation, but in all matters pertaining to academic work, men and women students in these divisions report to their respective deans. These matters include the following:

- a. Absence from classes.
- b. Honorable dismissal from College.
- c. Scholarship requirements.
- d. Scholarship probation.
- e. Individual approval.
- f. Change in schedule.

ABSENCE FROM CLASSES

1. Students are required to be diligent in the pursuit of their studies and regular in their class attendance. Those who fail to meet these requirements will be requested to withdraw from the College. Absences are counted from the first meeting of the class regardless of the time when the student enrolls, and late registration does not cancel these absences, which may only be removed or work made up in accordance with paragraphs 3 and 4 herewith.

2. Students are urged to attend all meetings and examinations of courses for which they are registered. For each eighteen absences per semester in

any or all subjects, the student will be required to complete one extra hour for graduation. The grade point rule is to apply to extra hours thus required.

3. a. Absence on field trips and with debating teams, judging teams, or other organizations which leave the College on official work; absences of individuals who are permitted by the President or by the deans to leave the College on official business pertaining to the College or some organization thereof are counted at half rate, provided the coach, manager, or other person in charge files with the Registrar, at least twenty-four hours before the student leaves the College, a certificate—upon a form prescribed by the College—for each student who proposes to make a trip, and provided the same is approved by the dean of the division in which the student is enrolled, before the student leaves the college.

b. Absence due to illness of the student will count at half rate provided he files in the office of his dean within one week after his return to classes an official "Physician's Approval of Absence" card issued by his dean for the period of illness, signed by the College physician.

c. Absence due to illness or death in the student's family will count at half rate when the absence is approved by the dean of the division in which the student is enrolled.

d. Absence on trips to participate in intercollegiate athletic contests will count at half rate when a list of eligible persons making any such trip has been filed with the students' deans by the chairman of the Faculty Committee of the Athletic Council.

4. a. Students for whom absence approval cards or lists are filed in accordance with the regulations stated above under (a), (b), (c), and (d) of paragraph 3 may have the privilege of making up the missed recitations by handing in written work or in any other manner satisfactory to the instructor concerned. When such missed recitations have been made up, the remaining absences are removed.

b. Application for the privilege of making up absences as in paragraph 3 must be made in writing and approved by the dean of the respective division within one week after the time of the return of the student to the College. A form prescribed by the College for this purpose will be furnished by the dean of the particular division.

DOUBLE CUTS

Each absence on the two days preceding or the two days following any school holiday count as two except as provided for in paragraph 3b, 3c, and 4a.

ADDING COURSES

After the regular registration period a student may add a course only with the approval of the instructor concerned and the student's dean.

No course may be added after one week of class work in either semester of the Long Session or after a comparable length of time in either summer term.

Adding a course must be attended to in person and not by a friend or by mail.

The following procedure should be carried out by the student:

1. Add cards—made out in triplicate—should be obtained from the dean's office.
2. Approval by the instructor in the course should be obtained on these add cards.
3. The dean's approval of the add cards should then be obtained.
4. Add cards should be filed in the Registrar's office.
5. If a fee is required, the Registrar's office then sends the student to the Business Office.

NOTE: No add is official until all of the above procedure is completed.

DROPPING COURSES

A student may drop a course only with the consent of his dean.

The request for this action is not granted if made later than five weeks after registration in the fall semester, four weeks after registration in the spring semester, or after a comparable length of time in the summer terms, unless the dean originates the request. The dean may request the instructor's advice.

Dropping a course without permission (and persistent absence from class amounts to dropping) means severing one's connection with the College.

Dropping a course must be attended to in person and not by a friend or by mail.

The following procedure should be carried out by the student:

1. Permission should be obtained from the dean of the division in which the student is enrolled.
2. Drop cards—made out in triplicate—should be obtained from the dean's office.
3. The signature of the instructor in the course should next be obtained on these cards.
4. Drop cards should be filed in the Registrar's office.

NOTE: No drop is official until all of the above procedure is completed.

CHANGING A SECTION OF A COURSE

After completion of his registration a student may change from one section of a course to another only with the approval of the dean of the division and the instructors concerned.

The request for this action is not granted if made later than five weeks after date of regular registration in the fall semester, four weeks after date of regular registration in the spring semester, or after a comparable length of time in either summer term.

Section changes must be attended to in person and not by mail or by a friend.

The following procedure should be carried out by the student:

1. Permission should be obtained from the dean of the division in which the student is enrolled.
2. Change cards—made out in duplicate—should be obtained from the dean's office.
3. Approval by the instructor of each section concerned should next be obtained on these cards.
4. The dean's approval of the change cards should then be obtained.
5. Change cards should be filed in the Registrar's office.

NOTE: No change is official until all of the above procedure is completed.

CLASSIFICATION OF STUDENTS

The College recognizes but one kind of student—the regular student. Students are classified as freshmen, sophomores, juniors, seniors, and graduate student.

For the purpose of determining eligibility to hold certain offices and for other similar reasons, students are classified as follows:

Freshman: A regularly enrolled student with all entrance requirements met, who has completed fewer than thirty semester hours.

Sophomore: A regularly enrolled student who has completed a minimum of thirty semester hours including two hours of required physical education or military science.

Junior: A regularly enrolled student who has completed not less than sixty semester hours, including four hours of required physical education or military science, with sixty grade points.

Senior: A regularly enrolled student who has completed not less than ninety semester hours, including four hours of required physical education or military science, with ninety grade points.

SEMESTER HOUR

The unit of measure for instructional purposes is the course. Most courses meet three hours a week, having a credit value of three hours for one semester or six hours for both semesters.

The unit of measure for credit purposes is the **semester hour**, which means one hour of recitation (or equivalent in shop or laboratory work) per week for one semester of eighteen weeks. For each classroom hour, two hours of preparation are expected. Three hours of shop or laboratory work are counted equivalent to one classroom hour with its preparation.

NUMBER OF SEMESTER HOURS ALLOWED

In the case of a student with low scholastic standing, the normal student load may be reduced. The limit may not be exceeded without a sufficiently high grade average. A student earning all or part of his expenses while in college is not allowed to register for over twelve semester hours if his outside duties demand as much as three hours per day. This limit may be increased by the dean of the division in which the student is registered, if the nature of the employment permits this and if the student's record shows a sufficiently high average grade.

All students who are working any portion of their time for support while they are in college must report to the Dean of Men or the Dean of Women, and through those deans to the dean of the division, the number of hours per week which they are working, and such other data regarding the employment as may be required by the deans. This report must be supplemented as changes occur. Intentional misstatements may lead to deprivation of privileges.

A student may not receive credit in any course in which he is not regularly enrolled or to which he has not been officially assigned.

AUDITING COURSES

There are two ways of auditing classes without credit when permission is granted:

Visiting the Course—

The first method, that of visiting the course, is open to persons not regularly enrolled in the College and consists of the privilege of hearing or observing only, and not of handing in papers, taking part in class discussions, in laboratory or field work, or of receiving credit for the course. This permission is not granted during the summer session or for Extension classes. A visitor's permit to attend any class may be denied to any person in case the class is already overcrowded.

Any person desiring to visit a course should first secure the necessary forms from his academic dean. When these forms have been completely filled out and approved, he pays a fee of \$5.00 per course and receives a permit to visit the course.

Enrolling for No Grade—

The other method is for students regularly enrolled in the College either in the summer session or in the Long Session and entitles them to register for residence courses for no grade. Such registrations are to be considered on the same basis as registrations in credit courses in making

the student's schedule, both in the payment of fees and in the consideration of the amount of work to be carried. Class cards for such students shall be indicated by the Registrar as "no-grade"; such registrations shall not be changed to carry a grade after the designated date for adding or dropping courses. A student registered in a course for no grade shall have the privilege of taking part in class discussions, submitting class exercises, and taking quizzes and examinations if he desires.

COURSE NUMBERS

The numbers used for designating the courses are uniform. From left to right, the first digit indicates the college year in which the course is normally offered; the second digit shows the credit hour value of the course; and the other digit or digits represent the course number. A course which extends over two semesters carries a course number joined by a hyphen for each additional semester after the first; e. g., English 131-2, or Industrial Engineering 4311-12 means that a course extends through two semesters. The semester credit value of a course entered as a grade may not vary from the credit hour value shown in the second digit from the left as indicated in the preceding paragraph.

For a more detailed explanation of course numbers, see **Curricula and Courses of Study**, page 70.

GRADES

The standing of a student in his work is expressed by the grades made up from class work and examinations. The grades used are: A, excellent; B, good; C, fair; D, passing; E, condition; Inc., incomplete; W, withdrawal from the course; F, failure. Plus and minus grades may be used at the instructor's discretion to make a finer distinction above and below the letter given. Thus, if A is 90 to 100, A minus is low and A plus is high within that range; likewise, D minus is barely passing.

Grades are given by semesters, but where the student's curriculum requires the completion of a two-semester course, one semester of a course will not count for a degree until credit has been received for the entire required course.

Semester grades are recorded by teachers on grade cards and on grade sheets and are filed with the Registrar in accordance with the time limits set by him. The Registrar reports all grades to the student's parents or guardians, to the student, and to the student's dean. All students regularly enrolled in any given course five weeks after the beginning of the first semester, four weeks after the beginning of the second semester, or after a comparable length of time in either summer term, must receive a grade at the end of the semester. No grade may be given to a student not regularly enrolled in a course during the semester covered. No grade may be corrected or changed without inquiry as to the reason and necessity for the change, except the grades of E and Inc., for the changing of which, definite regulations are provided.

GRADE OF INC.

Definition. The grade of Incomplete (Inc.) may be given by the instructor whenever the student's work in the course indicates a major deficiency in quantity (but is sufficient in quality), provided the deficiency has been occasioned by causes beyond the student's control.

Completion of the work: Within four weeks after the beginning of the next regular semester of residence after the grade of Inc. is given, the student shall initiate a petition to the dean of the division in which he is enrolled for permission to complete the work reported incompleting. The dean and the instructor in joint conference shall decide whether the work may be completed or the grade becomes F. The dean may extend the time for initiating the petition. The student who fails to initiate his petition within the time limit stated (unless the time be extended by the dean) shall forfeit all priv-

illeges of completing the work, and the grade becomes F. Upon receiving permission, the student shall complete the work in whatever manner and within whatever time the instructor specifies, provided that the time shall not exceed one year from the giving of Inc.

Record of Inc: The instructor shall note on the reverse side of the grade card the reason Inc. was given, the quality of the work done, and the time allowed for doing the work. The instructor shall transmit the new grade to the Registrar who, in recording the new grade, shall supplement the original grade with the one last recorded.

When an Inc. stands for one year without action, it becomes F, except that at mid-semester before graduation, any grade of Inc. then standing without action becomes F.

The responsibility of seeing the record cleared of Inc. rests upon the student.

THE GRADE OF W

The student who withdraws from a course within five weeks from the beginning of the first semester or four weeks after the beginning of the second semester, in a manner prescribed by the college regulations, receives no grade, and his name is not entered on the final sheet.

A student who withdraws from a course after five weeks from the beginning of the first semester or after four weeks from the beginning of the second semester receives a grade of W if his work is of a passing grade; otherwise, the grade is F.

A student who transfers from one section to another receives no grade in the original section, and his name is not entered on the final grade sheet for that section.

GRADE OF E

Definition. A student who fails to pass a course but makes a grade of E is conditioned. The grade of E. is to be very carefully distinguished from the grade of Inc. In all cases of future assignments, prerequisites, or activities requiring a passing grade, it is to be regarded as F until removed, except for entrance to the succeeding semester of a continuous course of not over two semesters.

Removal of condition: It shall be the duty of the student who has received E to consult his instructor within four weeks after the beginning of his next semester of residence to determine the method of the removal of the condition.

The student must remove the condition in one of four ways designated by the instructor.

1. By a second examination within four weeks after the beginning of the next regular semester. This examination must be passed with a grade of at least C, and if so passed the semester grade becomes a D. The grade of a student who fails to meet this requirement becomes F.

2. By creditable work the following semester in a course continuing beyond one semester. Under this requirement the student should register in a section taught by the instructor who assigned the grade E. The grade of a student who complies with this requirement becomes D.

3. By satisfactory completion of special assignments submitted in writing by the instructor and approved by the head of the department. The grade of a student who complies with this requirement becomes D.

4. By registration for the course in which the E has been assigned. The original grade, under this method, will be supplemented by the grade obtained by repeating the course.

Recording the removal of the condition: In any action under provisions

1, 2, or 3, for the removal of a condition, the instructor will transmit to the Registrar the grade of D or F. The Registrar in recording the new grade will leave E upon the record. When an E stands without action for one year it becomes F except that at mid-semester before graduation any grade of E then standing without action becomes an F.

The responsibility of seeing the record cleared of a condition rests upon the student.

GRADE OF F

Definition: The grade of F is given when a student fails in a course, and also when the student withdraws from the course in a manner prescribed by college regulations after five weeks from the beginning of the first semester or four weeks from the beginning of the second semester and is not then passing in the course.

GRADE POINTS

In order to encourage students to do the best work of which they are capable, the College considers not only the number of credit hours taken by students but also the grades received in the various subjects and gives a definite number of grade points for each grade. For the grade of A, every student is entitled to three grade points for each credit hour; for the grade of B, two grade points for each credit hour; for the grade of C, one grade point for each credit hour. The grade of D is a mere passing grade and does not entitle the student to any grade points whatever. The grade of F, or failure, not only does not entitle the student to any grade points but will reduce the grade point average, since such work must be repeated. For a student to graduate from Texas Technological College, the total number of grade points must equal or exceed the total sum of the semester hours required for graduation.

No grade points are required or allowed for credit from other institutions or for credits made in this college prior to September 1, 1926. A student who has the number of semester credit hours required for graduation, but not the corresponding number of grade points; may satisfy the requirements by completing additional courses until the grade point requirements have been met. Courses used to meet these requirements must have the approval of the student's dean.

The grade point average is determined by multiplying the grade points by the number of hours in each subject as shown by the grades. The total of all grade points is then divided by the total of all hours in which the student has received grades of A, B, C, D, F, and including E—less than one year in process of removal, as F—and including in the total, the grade of F for each reregistration in the same course. This grade point average is then interpreted in terms of the corresponding grade.

DEFICIENCIES IN ENGLISH

A special survey of the records of all students who are registered as juniors and are candidates for a degree will be made at the beginning of the junior year to ascertain their proficiency in English composition and the use of English. If any student in any division of the College is found deficient in the use of the English language, such deficiency must be removed before the beginning of the last semester of the senior year. The reports on the standing in English of all prospective juniors and seniors will be made by the Registrar to the dean of the division in which the student is registered, and special arrangements should be made between the dean of the division and the head of the Department of English for the removal of such deficiency by additional required work in English.

PHYSICAL EDUCATION

Physical education is required of all freshmen and sophomores, both men and women, unless excused upon recommendation of the College physician,

but such an excuse shall not relieve the student from making the total semester hour requirements for graduation. Military science may be taken in place of the required physical education by any physically fit male student enrolled in any of the eligible Engineering courses and otherwise qualified.

A student twenty-five years of age, or above, who does not wish to enroll for physical education, and one excused from the requirements on the recommendation of the College physician must complete at least two semester hours college credit in Health and Hygiene as a part of the requirements for graduation.

ELIGIBILITY FOR EXTRA-CURRICULAR ACTIVITIES

Any undergraduate student not on scholarship or disciplinary probation who is regularly registered for twelve or more semester credit hours is eligible to become a candidate for student office, or may represent the College in any extra-curricular activity, provided such student has a grade average of at least 1.00. The average grade is determined by multiplying the grade points by the number of hours in each subject as shown by the grades; the total of all grade-points is then divided by the total of all the hours in which the student has received grades of A, B, C, D, and F and including E less than one year old in process of removal as F, and including repeatedly each re-registration in the same course with a grade of F in the total. Also no student shall make a public appearance in any extra-curricular activity or be nominated to, hold, or be recommended for a student office unless he has been certified as eligible by the Registrar and the Dean of the Division in which he is registered. The responsibility for securing certification shall rest with the student concerned and the supervisor of the activity in question. A student who does not meet these regulations shall not represent the College. This paragraph does not apply to students mentioned in paragraph 2.

An undergraduate student not on scholarship or disciplinary probation, who is regularly registered, may compete in intercollegiate athletics. Participation in intercollegiate athletics is governed by the athletic conference rules followed by the College and administered by the Athletic Council. No student shall make a public appearance in an intercollegiate athletic activity unless he has been certified as eligible by the Faculty Committee of the Athletic Council. The responsibility for securing this certification shall rest with the student concerned and with the Faculty Committee of the Athletic Council. A student who does not meet these regulations shall not represent the College.

SCHOLARSHIP PROBATION

A student who passes five hours but fails to pass as many as nine hours for which he is enrolled in a given semester (except as specified in the last paragraph of this heading) is placed on scholarship probation by the dean of his division during the next semester. This probation shall mean that:

1. The student may not register for more than four courses, approximately twelve hours, except upon the advice of the dean.
2. In order to allow more time for studies, he shall not be permitted to represent the College in any intercollegiate contest, collegiate office, or elective collegiate position during his period of probation, and shall not be permitted to be absent from the College for any cause except illness.
3. Lack of interest in his studies as evidenced by unnecessary absences will result in his suspension from the rolls of the College.
4. The scholarship probation provided for above will not be removed during the semester. A student who withdraws from the college while on scholastic probation will be counted as having failed to meet the required minimum of work in the semester concerned.
5. The student already on scholarship probation who fails to pass as many as nine hours is suspended for one semester before being given another trial, or may be suspended at the dean's discretion at mid-semester if the reports made at that time seem to require such action. See the paragraph on Suspension from the College.

A student who fails to pass as many as five hours for which he is enrolled in any semester is suspended for one semester before being given another trial (except that a person who is registered for four hours or less may re-enroll if he passes all his work). See the paragraph on **Suspension from the College**.

A student suspended at the end of the second semester of the year, either for failure to remove his scholarship probation or for failing to pass a minimum of five semester hours, is ineligible to register in the College until the beginning of the second semester of the following Long Session; however, if such a student attends both semesters of the subsequent summer session, which he is eligible to do upon agreement with his academic dean, and if he passes in at least nine semester hours with a minimum of nine grade-points, he will have satisfied probation requirements and may enroll in the College the following September without a formal petition.

A student who presents notably low grades from another institution will be received in Texas Technological College only on scholarship probation. This fact will be recorded on his transcript of credits when it is evaluated. In that case, this student will be registered in accordance with these regulations.

A student who on account of employment or other similar reasons is permitted to register for less than fifteen hours must pass two-thirds of the work.

A student on scholarship probation will not be transferred to or enrolled in another division of the College until the provisions of the probation regulations have been met.

WITHDRAWAL FROM COLLEGE

A student who finds it necessary to withdraw from the College before the close of the semester should apply to the dean of the division in which he is registered for permission to withdraw. A student under twenty-one years of age should first consult his parents and should bring with him a written statement showing that he has the permission of his parents to withdraw. If the dean is convinced that withdrawal is necessary, the student will be given honorable dismissal from the College, and his parents will be notified. Such withdrawal protects the student's record in case he desires to return to the institution or to transfer to another institution at some future time. The grades recorded are given in accordance with the grade requirements in the preceding paragraphs, and if the withdrawal is due to accident or illness, the grades whether W or F, will be based on the student's standing on the last day of attendance in each of the specific courses to which he is assigned. The fact that the student may have withdrawn does not alter the scholarship probation requirements.

INTRAMURAL TRANSFERS

The College encourages students to develop interest and knowledge in specialized fields of learning. Frequently it is necessary that opportunity for a change of major must be provided, and to this end transfers between the main divisions of the College are encouraged whenever such seem advisable for the best interest of the student. Students desiring to transfer from one division of the College to another must apply to their dean either at the beginning of the year in the fall or before examinations are held at the close of any semester. Transfers are made in writing from the dean to the Registrar. If a student has failed to pass the number of hours required under the scholarship probation regulations, he will not be transferred to, or enrolled in, another division of the College until the provisions of the probation regulations have been met.

WEEK OF RESTRICTED SOCIAL ACTIVITIES

During the week preceding examinations, the Faculty Social Activities Committee will not schedule any social function at the College.

REQUIREMENTS FOR GRADUATION

Undergraduate Degrees. To receive any undergraduate degree in Texas Technological College, the student must have met certain uniform requirements together with certain other requirements that may vary with the different divisions of the College.

1. Each student is required to do work in actual residence in this College of at least two long session semesters, five summer session terms, or one long session semester and two summer session terms, in addition to any residence credit obtained through extension, and must complete in residence a minimum of thirty semester hours of work counting toward a degree. At least twenty-four of the last thirty semester hours offered for the undergraduate degree must be taken in this College. A maximum of six hours of the final semester's hours required for a degree may be completed by correspondence, provided the courses are offered by correspondence. A maximum of nine hours may be completed by correspondence if, after conference with his dean, the student seems to need it in his program. In both cases permission from the dean must be secured. The students must make before graduation, a total number of grade points at least equal to the number of credit hours required for graduation as provided for in the paragraph on grade points in this catalogue.

2. The candidate for any degree must file his application for the degree with the Registrar and with his dean not less than two semesters in advance of graduation.

3. The completion of all requirements of the course of study as outlined in the college announcement or its equivalent as determined by the faculty of the division offering the course must be certified to by the Registrar and by the dean. The curriculum requirements will be found in the appropriate divisions of the catalogues and announcements issued from time to time. At the option of the head of the department concerned, no grade lower than C in the major subject will be accepted for satisfaction of requirements for graduation. This requirement is to apply to all divisions in the College.

Students who enter State-supported institutions of higher learning after September 1, 1937, will be required to complete satisfactorily a minimum of six semester hours in courses in government covering the Federal and Texas Constitutions. This applies to all detailed statements of curricula published in this catalogue.

4. No second Bachelor's Degree will be conferred until the candidate has completed at least twenty-four semester hours in addition to courses counted toward the first Bachelor's Degree.

5. The candidate for a degree must be attired in the correct academic costume when presenting himself for a degree.

6. Diplomas are bestowed upon the candidate at the time the degree is conferred.

7. Graduation in absentia is not permissible for a student in residence and will be permitted only under special conditions stated in writing and approved by the President and College Administrative Council.

A candidate for a degree will be held to the graduation requirements as stated in this catalogue and announcements for the year in which he entered the college; but he may meet the graduation requirements in the catalogue of the year in which he graduates. A student entering Texas Technological College after September 1, 1938, must meet the requirements for a degree within seven years of the date of the catalogue chosen. This does not mean that if a student fails to complete the requirements within seven years he loses credit for the work done, but that he must choose the next later catalogue and fulfill the requirements as set down in it in accordance with the first sentence in this paragraph. In case a candidate for a degree has perfected an intramural transfer, he will be held to the requirements in the catalogue which would normally govern him in keeping with the classification he assumes under the transfer.

Graduate Degrees. For requirements for Master's Degrees, see either the Division of Graduate Studies in this catalogue or the separate Graduate Bulletin.

MEDICAL SERVICE FOR STUDENTS

All students are required to present a record of their physical examination as a part of the procedure for admission and registration. See page 37. This record will be accepted only if given by a physician of the institution officially designated to furnish medical service for students.*

The Lubbock Sanitarium, 1301 Broadway, Lubbock, in return for the medical service fee, agrees to render the following services to any student enrolled in residence in the College who has paid this fee for the semester:

1. The student will be given a physical examination at the opening of the first semester of the scholastic year for which he is registered, or as soon thereafter as practicable, the limiting date to be determined by agreement between the College and the Sanitarium. Three special tests are provided for in the contract with the College. These tests will be given the student without further cost. In case of abnormalities, the student will be given advice, with recommendation as to treatment.

2. The student will be allowed free consultation with the College physician at any time such consultation is desired.

3. The College physician will make, without further charge, calls to the student's home or at the hospital.

4. Each student will, in case of necessity, have free use of the facilities of the hospital, including board, lodging, and general nursing, provided this does not exceed twenty-one days in any one school year. These provisions do not include the services of a special nurse; such services if employed must be cared for by the student.

5. To the capacity of the hospital facilities, the hospital agrees to furnish hospitalization to students who, while in College, contract contagious diseases—for example, mumps, measles, flu. In case of an epidemic of contagious diseases, where the hospital facilities are taxed beyond their capacity, arrangements, mutually agreeable to the College and the hospital will be made.

6. If an ambulance is required to carry the student to the hospital, this service will be furnished without additional charge.

7. The student will receive without further cost any pathological or X-ray examination which may be needed for treatment underway in the hospital.

8. a. Any minor surgical operations which may be needed by the student—such as for cuts, sprains, simple fractures, and vaccinations—will be performed for him without further cost.

- b. Emergency operations for appendicitis (for acute cases only) will be performed for the student without further cost.

9. The student will receive without further cost examinations and treatment by specialists for eye, ear, nose, and throat difficulties. This, however, does not include operation for the removal of tonsils, for chronic nasal diseases, or for special operations on the eye or ear.

10. On all operative work not covered by the medical fee, students will receive a discount of 25 per cent from the regular charge.

11. First-aid service and consultation with the school physician can be had at stated hours each day at an office provided on the campus by the College. This does not interfere with the provisions in paragraph 3 above.

12. Daily service of a trained nurse can be had at the office on the campus during the school year at hours to be announced.

13. Members of the faculty of Texas Technological College and their families may receive medical and surgical attention at a discount of 25 per cent.

14. Casualty work for employees injured while on duty in their respective services for the College will be cared for by the Staff without charge. This does not include hospitalization and will apply only to those injured while on duty during working hours.

15. The hospital agrees to report promptly to the Dean of Women of the College every case of illness among the women of the College and to report

*The arrangements for the summer of 1941 are essentially the same and are with the West Texas Hospital.

to the Dean of Men every case of illness among the men of the College, with an adequate statement of the nature of the illness.

16. The hospital agrees that all case records of students remaining in College after the period covered by this agreement will be available to the College authorities upon request.

17. The hospital agrees to furnish the College semi-annual reports of all services rendered to students under this agreement.

18. With reference to the treatment of any cases seemingly not covered in the above conditions, the College and the hospital will come to a mutual agreement as to handling of such cases.

All the above conditions and agreements will obtain covering the summer school, 1941, except that the fees shall be \$2.00 for either or both terms and the maximum number of days for hospitalization shall be ten.

STUDENT ORGANIZATIONS

THE STUDENT COUNCIL

The Student Council is the official body of the students chosen to represent them in matters affecting student activities and to cooperate with the College authorities in administering affairs peculiar to the students. It is made up of representatives of the various divisions and classes elected by vote of the student body.

MUSICAL ORGANIZATIONS

The musical organizations of the College are directed by Julien Blitz, Dewey Wiley, and other members of the Music faculty.

College Band. The Matador Band, (numbering one hundred and eighty) directed by Mr. Wiley, plays on concert tours, at athletic meets, and at other College events. Rehearsals daily or weekly according to credit desired.

College Oratorio. Rendered by a chorus (numbering two hundred and forty voices) directed by Mr. Blitz. One or two presentations per year.

College Mixed Chorus. Directed by Mr. Blitz. Church and concert performances. Credit as ensemble.

College Symphony Orchestra. Directed by Mr. Blitz. Concerts and tours. Credit as ensemble.

Various Chamber Music Organizations. Directed by members of the faculty. Carries credit by arrangement with the Head of the Music Department.

STUDENT PUBLICATIONS

There are at present two publications representing the student life of the College:

"The Toreador" is the College paper published twice each week by officers elected by the student body. It is the official publication of the student body and the College itself and constitutes the principal means of keeping the student body, faculty, and friends of the institution informed regarding the weekly news of the College.

"La Ventana" is the College annual published each year and issued near the end of the spring semester. It records the principal events and historical progress of the institution, together with a display of all phases and interests of College life.

The two College publications offer valuable training to students in the field of journalism and in business management of publications.

ARTISTS COURSE

The Artists Course is a series of attractions sponsored by the College and offered to the student body at a cost of \$1.00 a semester.

Such distinguished artists and organizations as Rose Bampton, Richard Bonelli, Mozart Boys Choir, Carola Goya, Efram Zimbalist, Ted Shawn, Don Blanding, Ruth Bryan Owen, Vilhjalmur Stefansson, Admiral Richard E. Byrd, Cornelia Otis Skinner, Manhattan String Quartet, Senator Robert La Follette, Jan Kubelik, Joos European Ballet, Harold Bauer, Helen Jepson, Don Cossack Chorus, Ballet Russe de Monte Carlo, James Melton, Lansing Hatfield, Robert Virovai, and Anna Kaskas have appeared under the sponsorship of this committee.

PUBLIC SPEAKING AND DEBATE

The ability to speak effectively is an extremely valuable asset. The professional or business man or woman of today who wishes to influence and persuade others cannot achieve the fullest measure of success without this ability. To help develop this faculty, the student is given an opportunity to practice oratory and debate. Students interested in debate have opportunity for practice in the Debate Club and in the Pre-Law Club. In the past, inter-collegiate debates have been arranged with the leading universities and colleges of the United States.

CLUBS AND SOCIETIES

The Texas Technological College has encouraged such student activities and organizations as seem to offer opportunities for individual self development. No organization among students on the campus will be permitted unless application is made to the College Administrative Council for the right to organize such a club, stating the object, type of membership, and other matters necessary for its organization. Every organization must have the approval of the College Administrative Council. No club will be permitted to organize unless the objectives are such as will promote not only the best interests of the individual students who become members, but also the best interests of the institution itself. No organization which fails to maintain these standards may continue on the campus. All clubs and societies are required to have faculty sponsors; the treasurers of student organizations are required to follow certain regulations and to deposit their funds with the College business office.

By a ruling of the Board of Directors, Greek letter social fraternities are not permitted in the College.

Among the more prominent organizations on the campus are the following:

SERVICE CLUBS

The Association of Women Students, The Forum, the Junior Council, and Las Leales are clubs which were organized in the interest of the women students. Alpha Phi Omega is a campus service club composed of men students.

RELIGIOUS ORGANIZATIONS

The Young Men's Christian Association and Young Women's Christian Association endeavor to create and maintain Christian fellowship on the campus. The Student Religious Council serves as a discussion group for student problems. Two other clubs function in religious matters. These are The Newman Club and The Episcopal Student Group.

HONORARY, PROFESSIONAL, AND DEPARTMENTAL ORGANIZATIONS

National Honorary and Professional Organizations

- Alpha Chi (scholarship)
- Alpha Epsilon Delta (pre-medicine)
- Alpha Psi Omega (dramatics)
- American Chemical Society
- American Institute of Chemical Engineers (student branch)

American Institute of Electrical Engineers (student branch)
 American Society of Civil Engineers (student branch)
 American Society of Mechanical Engineers (student branch)
 B'ock and Bridle (agriculture)
 Future Farmers of America
 Future Teachers of America
 International Relations Club (social science)
 Kappa Kappa Mu Epsilon (mathematics)
 Kappa Kappa Psi (band)
 Phi Psi (textile engineering)
 Phi Upsilon Omicron (home economics scholarship)
 Pi Sigma Alpha (government)
 Sigma Gamma Epsilon (geology)
 Society of American Military Engineers
 Tau Beta Pi (engineering scholarship)
 Women's Athletic Association

Local Honorary and Professional Organizations

Freshman Honor Society (scholarship)
 Women's Press Club (journalism)

Divisional and Departmental Organizations

Agricultural Club, Biology Club, Book Review Club, Capa y Espada, Dairy Club, Debate Club, Double T Club, Engineering Society, French Club, Gargoyle Club, German Club, Home Economics Club, Industrial Engineering Society, Philosophy Club, Plant Industry Club, Pre-Law Club, Pre-Med Club, S. P. Q. R., Sock and Buskin, Society of Petroleum Engineers, Sociology Club, Tech Accounting Society, Texas Tech Business Club, Textile Engineering Club, and various city, county, and state organizations. (These clubs serve the purpose of bringing together those students whose interests are in common.)

CURRICULA AND COURSES OF STUDY

EXPLANATION OF COURSE NUMBERS AND ABBREVIATIONS IN COURSE DESCRIPTIONS

The part of this bulletin which immediately follows is devoted to descriptions of courses and curricula and a presentation of requirements.

In order to assist the reader in understanding the abbreviations and methods of presentation used, the following explanation has been prepared.

The numbers used for designating courses are uniform. From left to right, the first digit indicates the college year in which the course is normally taken; the second digit shows the semester hour value of the course; the last digit or digits complete the course number. A course which extends over two semesters, carries a hyphenated number; e. g., English 131-2.

The credit hour value per semester of the course is again shown after the name of the course thus: Cr. 3. In the case of a course which has a hyphenated number, the credit hour value per year is doubled—that is, English 131 is a three hour course, but English 131-2 extends over two semesters and has a yearly total value of six credit hours; Arch. 121-2 has a yearly total value of four credit hours. For courses not taught as straight theory, the number of hours per week devoted to lecture and laboratory, respectively, is shown in parentheses after the credit hour value.

The semester in which a course is taught is indicated by the Roman numerals I and II. I indicates a course taught normally only in the first semester; II, a course taught normally only in the second semester.

Each, I and II means that both halves of the course are taught each semester.

I and II means that a course is continuous throughout both semesters.

I, II means a one-semester course offered each semester.

Two different courses will be given here to illustrate the symbols used: English 131-2, Freshman Composition. Cr. 3. Each, I and II may be explained as follows:

English means a course in the Department of English.

131-2—the first 1 means a freshman course; the 3 means a three credit hour course; the second 1 means the first course normally in this series; the -2 means that there is a second course in this series and that if used for credit, both courses must be passed.

Freshman Composition is the Descriptive Title of the course.

Cr. 3 means that the course has a semester value of three credit hours.

Each, I and II means that both halves of the course are available each semester.

A course taught with a laboratory differs from the above description as follows:

P. H. 324. Advanced Poultry Judging. Cr. 2, (1-3). II. Prerequisite: P. H. 131... —a Poultry Husbandry Department course in the junior year with the descriptive title noted; two credit hours value with a one-hour lecture and a three-hour laboratory a week. II indicates that the course is taught normally only in the second semester.

"Prerequisite" indicates a course for which credit must have been received before registration for the new course is possible. In the above case, the student must have credit in P. H. 131 before he may be assigned to P. H. 324. If another course must be taken at the same time, it is indicated by "Registration in..." or "must be taken parallel".

DIVISION OF AGRICULTURE

ARTHUR H. LEIDIGH, DEAN

The Division of Agriculture of Texas Technological College aims to afford its students a liberal education, including instruction in the scientific and technical subjects which are fundamental to an understanding of the agricultural industry.

The purpose in offering the courses of study here outlined is to meet the needs of those who desire to prepare themselves for service and life in some part of the agricultural organization of this country as a whole.

In all these courses it is felt that sympathy with and understanding of agricultural subjects and problems are of value to the intelligent citizen.

The scientific and technical subjects studied are fundamental. In the latter years of the student's work, the scientific and agricultural subjects have both a more specific application to agriculture and a more fundamental bearing on certain special lines of work which the student may desire to pursue as a life work.

The buildings of the Division of Agriculture consist of the Livestock Pavilion; the Dairy Barn; and the first unit of a Green house, all of which are of permanent construction and are so planned that they may be added to as the occasion demands; a building used for offices and class rooms with a temporary annex thereto. In addition there are buildings comprising a meats laboratory, a farm machinery laboratory, and a dairy manufactures laboratory.

Equipment. The Division of Agriculture maintains laboratories both inside and outside. Approximately 700 acres of pasture land and 964 acres of cultivated land and small pastures are available for laboratory purposes. In addition, the campus of 320 acres is used for laboratory instruction in special branches of horticulture. Extensive improvements have been made for the livestock and poultry and for instruction in plant industry.

Service. Instruction in all of the subjects offered in the various courses is available to all students in the College, whether they major in agriculture, or in one of the other divisions of the College. To the end that the agricultural equipment and facilities may serve the greatest number of people, the Division of Agriculture conducts contests for vocational agriculture students and boys' club members, as well as short courses and demonstrations of one to two days each.

Field for Graduates. There is a demand for college-educated men trained in specialized lines of agriculture, as well as for professional men with a basic agricultural education. Among the lines of work usually open to graduates are the following.

Farmers and farm managers; marketing agents; managers of co-operative associations; teachers in colleges and high schools; extension experts in agricultural colleges, railroad and land companies; dairy and creamery experts or operators; milk distributors; government and experiment station employees; horticultural experts; poultry experts; county agents; assistants in seed houses; agricultural writers for farm journals; plant quarantine inspectors; plant pathologists; entomologists trained in agriculture; city park superintendents; farm machinery specialists; field men for livestock associations; livestock feeding experts; feed salesmen; Federal Soil Conservation Service employees; and Federal Farm Security Administration employees.

Teacher Training in Vocational Agriculture. Federal and State requirements state that the teacher of vocational agriculture in the high school "must have completed a four year course of college grade in agriculture." These requirements may be met in the Division of Agriculture. These as

well as the other requirements for this certificate are shown under **Agricultural Education**.

Teacher's certificates other than in vocational agriculture may be secured by students in the Division of Agriculture. Part of the requirements are met by the curriculum and part may be met by electives. In some cases extra courses may be required. Special certificates authorize the holders, after meeting certain requirements, to teach agriculture and may entitle the school in which the holder teaches to receive State and Federal Aid. For more complete information see **Department of Education and Psychology** in this catalogue.

Trips and Judging Teams. To enable students to secure a better conception of the agricultural industry, the Division of Agriculture recommends and fosters trips of inspection and intercollegiate judging contests for advanced students, and offers every assistance to make such trips worthwhile. These trips are not required, and the College does not pay the expenses of the students. In the case of judging teams, staff members coach and train the teams outside of regular classes, supplementing class instruction.

Admission Requirements. The requirements for admission to the Division of Agriculture are essentially the same as those for admission to the other divisions of the College. For details of these requirements refer to **Admission**.

Suggested High School Preparation. The student who has the opportunity to choose the subject matter in his high school course for admission into the Agricultural Curricula in Texas Technological College will be benefited by including in his high school subjects speech, physics, physiology, general science, history, typewriting, agriculture, drawing, and manual training or shop work. It should be understood that this list of subjects does not constitute the entrance requirements. These subjects are suggested because it is felt that they will strengthen or supplement the work to be done in College.

Requirements for Graduation. Special courses of study are offered in agronomy, agronomy and farm machinery, animal husbandry, horticulture, agricultural economics, dairy manufactures, and agricultural education.

All agricultural students are assigned to a definite course of study in the first two college years. This is to allow the student to become familiar with the courses of instruction and to decide fully about his qualifications before making election of a specific major. The uniform requirements accordingly include survey courses in the various departments of the Division of Agriculture, a series of orientation lectures, and work in English, chemistry, biology, economics, and mathematics. Students who are found to be notably deficient in the fundamentals of oral or written English are required to remove such deficiency before proceeding with work of the junior year. At the option of the department head, no grade lower than a C may be counted in the number of hours required in the major subjects or in subject matter closely connected therewith.

On petition to the Dean of the Division of Agriculture, subjects other than those in the uniform curriculum for the first two years may be followed, if a sufficiently good reason for such a procedure is shown. If other subject matter is studied, it will not be substituted for a part of the uniform requirements, but may possibly be considered for a part of the elective credit permissible in the junior or senior years of the respective curriculum followed, provided it meets the qualifications for supervised electives. Substitution and combinations are permitted only when there is good evidence that the student desiring such work is reasonably certain he will follow the branch selected.

The four-year curricula leading to the Degree of Bachelor of Science in Agriculture have a twofold purpose. It is desired that the student shall receive instruction in all of the fundamental courses that are necessary for a broad occupational understanding of Southwestern agriculture. Students are

allowed to select departments in which they wish to do advanced work and are allowed to elect a certain amount of non-required work. The student who is awarded a degree is thus, to some extent, a specialist in a particular field.

A candidate for a degree in agriculture must have had satisfactory farm, dairy, or other experience in labor or management during the recent years of his life. A statement giving details regarding this experience must be filed in the dean's office previous to the first semester of the candidate's senior year, and is required before registration for senior studies.

Students who enter state-supported institutions of higher learning after September 1, 1930 are required to complete satisfactorily a minimum of two semester hours in courses in government. If their entrance is after September 1, 1937, the requirement is six semester hours in courses in government. If individual students in the various agricultural curricula are not subject to the government requirements shown, the remainder of the six hours becomes a free elective.

Undergraduate Degree. The degree of Bachelor of Science in Agriculture is conferred upon students who satisfactorily complete the required courses as outlined in the following pages and meet the general requirements for graduation as stated in this catalogue. This degree is given with majors in agronomy, agronomy and farm machinery, animal husbandry, horticulture, agricultural economics, agricultural education, and dairy manufactures.

Master's Degree. In addition to work offered for the undergraduate degree, the Division of Agriculture gives graduate work in certain departments leading to the degree of Master of Science. Discussion of graduate work, including admission and departments offering graduate work, will be found in this catalogue under **The Division of Graduate Studies**.

Electives. Prior to the beginning of the junior year the student, in consultation with the head of the department, shall designate his electives. These electives must be approved by the head of the department and by the Dean of the Division of Agriculture before the student registers for these courses. Subjects to absolve extra hours required because of excessive absences or deficiency in grade points must be approved by the Dean of the Division.

The student will select his electives from a list of subjects prepared by the head of the department and approved by the Dean of the Division. The student will file reasons for his choice of electives.

CURRICULUM IN AGRICULTURE
FOR THE DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE

**Uniform Freshman and Sophomore Years for All Students
 in Agriculture**

Semester Hours
 Sem. I Sem. II

Freshman Year

A. H. 121. Types and Market Classes of Cattle and Sheep	2	.....
A. H. 122. Types and Market Classes of Hogs, Horses and Mules		2
*D. M. 131. Principles of Dairying	3	.....
*P. H. 131. Farm Poultry		3
*Hort. 131. Plant Propagation	3	.....
*Agron. 131. The Fundamentals of Crop Production		3
Bot. 131-2. General Botany	3	3
Chem. 131-2. General Chemistry	3	3
Eng. 131-2. Freshman Composition	3	3
Ag. Ed. 111. Orientation for Agricultural Students	1	.....
P. E. 113-4 or Music 111-2. Physical Education or Band	1	1
	19	18

Sophomore Year

A. H. 231. Breeds of Livestock		3
D. M. 222. The Dairy Industries		2
Agron. 221. Soils	2	.....
Hort. 231. Vegetable Gardening		3
Ag. Eco. 235. Fundamentals of Economics	3	.....
Ag. Eco. 234. Principles of Agriculture Marketing		3
Chem. 341. Organic Chemistry	4	.....
Chem. 220. Qualitative Analysis		2
Bact. 231. Bacteriology	3	.....
Math. 231-2 Mathematics for Students of Agriculture	3	3
Eng. 234. Special Work on Correct Usage	3	.....
P. E. 213-4 or Music 211-2. Physical Education or Band	1	1
	19	17

*Sem. I, one-half of the students will be scheduled for D. M. 131 and Hort. 131, while the other one-half will be scheduled for P. H. 131 and Agron. 131. Sem. II, the students will schedule the two subjects not scheduled Sem. I.

**CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE
IN AGRICULTURE**

AGRICULTURAL ECONOMICS MAJOR

For Uniform Freshman and Sophomore Years, see Page 74

Semester Hours
Sem. I Sem. II

Junior Year

Ag. Eco. 333. Cooperation in Agriculture	3	.....
Ag. Eco. 322. Marketing Agricultural Products .....	.....	2
Ag. Eco. 323. Advanced Agricultural Economics	2	.....
Ag. Eco. 325. Farm Records and Accounts .....	.....	2
Ag. Eco. 331. Statistical Problems	3	.....
A. H. 331. Animal Nutrition and Principles of Feeding .....	.....	3
Agron. 331. Forage and Pasture Crops	3	.....
Hort. 341. Principles of Genetics .....	.....	4
Speech 337. Project Speaking	3	.....
Engr. Drwg. 223. Agricultural Drawing .....	.....	2
T. E. 234. Cotton Classing and Marketing	3	.....
Electives, supervised .....	.....	4
	<hr/> 17	<hr/> 17

Senior Year

Ag. Eco. 411-2. Agricultural Economics Seminar	1	1
Ag. Eco. 421. Land Economics	2	.....
Ag. Eco. 422. Prices and Forecasting .....	.....	2
Ag. Eco. 423. Farm Management	2	.....
Ag. Eco. 434. Advanced Farm Management .....	.....	3
R. S. 431. Methods of Research and Extension	3	.....
R. S. 432. Rural Sociology .....	.....	3
Govt. 339-3310. American Government: Institutions, Functions.....	3	3
Electives, supervised	5	5
	<hr/> 16	<hr/> 17

Hours required for graduation, 140.

Electives

Students will elect courses in advanced Agriculture, Journalism, Education, Economics, or Business Administration.

**CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE
IN AGRICULTURE
AGRICULTURAL EDUCATION MAJOR**

For Uniform Freshman and Sophomore Years, see Page 74

Semester Hours
Sem. I Sem. II

Junior Year

Ag. Eco. 331. Statistical Problems	3	.....
Ag. Eco. 325. Farm Records and Accounts	2	2
Ag. Engr. 321-2. Farm Shop	2	2
Agron. 331. Forage and Pasture Crops	3	.....
A. H. 322. Farm Meats	2	.....
A. H. 331. Animal Nutrition and Principles of Feeding	3	.....
Hort. 341. Principles of Genetics	4	.....
Ag. Ed. 321. Organization and Administration of Vocational Education in Agriculture	2	.....
P. I. 331. Plant Insects and Diseases and their Control	3	.....
Ed. 234. Principles of Secondary Education	3	.....
Psy. 231. Educational Psychology	3	.....
Agron. 332. Grain Crops	3	.....
Vet. 333. Veterinary Science	3	.....
	19	19

Senior Year

Ag. Ed. 441-2. Agricultural Education	4	4
Ag. Eco. 423. Farm Management	2	.....
Agron. 422. Soil Management	2	.....
Ag. Engr. 411. Soil Management Laboratory	1	.....
Govt. 339-3310. American Government: Institutions, Functions	3	3
Electives from the following list	3	7
Agron. 421. Cotton and Other Fiber Crops		
Hort. 322. Landscape Appreciation		
Ag. Eco. 422. Prices and Forecasting		
A. H. 441. Livestock Production		
P. H. 421. Poultry Production		
D. M. 323. Market Grades and Classification of Dairy Products		
R. S. 431. Methods of Research and Extension		
	15	14

Hours required for graduation, 140

**CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE
IN AGRICULTURE
AGRONOMY MAJOR**

For Uniform Freshman and Sophomore Years, see Page 74

Semester Hours
Sem. I Sem. II

Junior Year

Agron. 311. Soils Laboratory	1	.....
Agron. 323. Principles of Crop Judging and Grain Grading	2	.....
Agron. 332. Grain Crops	3	.....
Agron. 331. Forage and Pasture Crops	3	.....
P. I. 331. Plant Insects and Diseases and Their Control	3	.....
Hort. 341. Principles of Genetics	4	.....
Ag. Eco. 325. Farm Records and Accounts	2	.....
A. H. 331. Animal Nutrition and Principles of Feeding	3	.....
Ag. Eco. 331. Statistical Problems	3	.....
Engr. Dwg. 223. Agricultural Drawing	2	.....
Govt. 339-3310. American Government: Institution, Functions	3	3
Electives	2	2
	18	18

Senior Year

T. E. 234. Cotton Classing and Marketing	3	.....
Agron. 421. Cotton and Other Fiber Crops	2	.....
Agron. 422. Soil Management	2	.....
Agron. 423. Soil Management	2	.....
Ag. Engr. 411-2. Soil Management Laboratory	1	1
P. I. 333. Functions of Horticulture and Agronomic Crop Plants	3	.....
P. I. 411. Plant Industry Seminar	1	.....
P. I. 431. Advanced Plant Breeding and Improvement	3	.....
Ag. Engr. 323. Farm Machinery	2	.....
Ag. Eco. 423. Farm Management	2	.....
Electives	6	3
	16	15

Number of hours required for graduation, 140.

Electives

Electives may be chosen from the following groups. At least six hours must be chosen in any field.

- A. Plant Industry.
- B. Agricultural Economics, Animal Husbandry, Agricultural Education, Dairy Manufactures.
- C. Biology, Chemistry, Geology, Physics.
- D. Education, English, Languages, Journalism, Physical Education.
- E. Architecture, Engineering Drawing.
- F. Engineering, Mathematics, Physics; elect Math. 131-2 instead of Math. 231-2.

**CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE
IN AGRICULTURE
AGRONOMY AND FARM MACHINERY MAJOR**

For Uniform Freshman and Sophomore Years, 'see Page 74

Semester Hours
Sem. I Sem. II

Junior Year

Agron. 311. Soils Laboratory	1	.....
Agron. 331. Forage and Pasture Crops	3	.....
Agron. 332. Grain Crops	3	.....
Ag. Engr. 321-2 Farm Shop	2	2
Ag. Engr. 331-2. Farm Power	3	3
Hort. 341. Principles of Genetics	4	.....
P. I. 331. Plant Insects and Diseases and Their Control	3	.....
Ag. Eco. 331. Statistical Problems	3	.....
Govt. 339-3310. American Government: Institutions, Function	3	3
Electives	3	3
	18	18

Senior Year

Agron. 421. Cotton and Other Fiber Crops	2	.....
Agron. 422-3. Soil Management	2	2
Ag. Engr. 411-2 Soil Management Laboratory	1	1
Ag. Engr. 323. Farm Machinery	2	.....
Ag. Engr. 431. Farm Buildings	3	.....
P. I. 411. Plant Industry Seminar	1	.....
Speech 337. Project Speaking	3	.....
Electives	8	6
	16	15

Number of hours required for graduation, 140.

Electives

Electives may be chosen from the following groups. At least six hours must be chosen in any field.

- A. Plant Industry.
- B. Agricultural Economics, Animal Husbandry, Agricultural Education, Dairy Manufactures.
- C. Biology, Chemistry, Geology, Physics.
- D. Education, English, Languages, Journalism, Physical Education.
- E. Architecture, Engineering Drawing.
- F. Engineering, Mathematics, Physics; elect Math. 131-2 instead of Math. 231-2.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE

ANIMAL HUSBANDRY MAJOR

For Uniform Freshman and Sophomore Years, see Page 74

Semester Hours
Sem. I Sem. II

Junior Year

A. H. 321. Advanced Livestock Judging	2	.....
A. H. 322. Farm Meats	2	.....
A. H. 331. Animal Nutrition and Principles of Feeding	3	.....
Vet. 331. Anatomy and Physiology	3	.....
Vet. 332. Livestock Diseases and Parasites	3	.....
Agron. 331. Forage and Pasture Crops	3	.....
Hort. 341. Principles of Genetics	4	.....
Ag. Eco. 325. Farm Records and Accounts	2	.....
Ag. Eco. 331. Statistical Problems	3	.....
Speech 337. Project Speaking	3	.....
Electives	3	4
	17	18

Senior Year

A. H. 411. Animal Husbandry Seminar	1	.....
A. H. 422. Animal Breeding	2	.....
Ag. Eco. 423. Farm Management	2	.....
Govt. 339-3310. American Government: Institutions, Functions	3	3
Departmental electives from the following list	6	6
A. H. 421. Purebred Herds and Flocks.		
A. H. 424. Beef Production.		
A. H. 425. Horse Production.		
A. H. 426. Sheep Production.		
A. H. 427. Swine Production.		
A. H. 428. Dairy Cattle Production.		
P. H. 421. Poultry Production.		
Electives	5	4
	16	16

Hours required for graduation, 140.

Electives

Not less than a year's work may be elected from any department unless a course is not continuous. Not more than three hours of elective work, in addition to the required work, may be credited in a subject from the Department of Animal Husbandry. Electives will be chosen from the following elective groups:

A. A sub-major in Animal Husbandry may be taken in Dairy Husbandry, in which case the following courses are required: A. H. 323, D. M. 331, D. M. 335, A. H. 428, D. M. 441.

B. Subjects in Agriculture. This list may be chosen from those required for teaching Vocational Agriculture that are not already required of Animal Husbandry students. This includes Ed. 234, and Psy. 231.

C. Subjects in the following departments: Chemistry, Biology, Mathematics, Physics, Geology, French, German; and limited work in Journalism, Physical Education, and Speech.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE

DAIRY MANUFACTURES MAJOR

For Uniform Freshman and Sophomore Years, see Page 74

Semester Hours
Sem. I Sem. II

Junior Year

D. M. 323. Market Grades and Classifications of Dairy Products	2	.....	
D. M. 321. Technical Control of Dairy Products	2	.....	
D. M. 337. Technical Dairy Plant Problems	3	.....	
D. M. 331-2. Market Milk and Inspection	3	.....	3	3
D. M. 335. Dairy Bacteriology	3	.....	3	3
A. H. 331. Animal Nutrition and Principles of Feeding	3	.....	3	3
Ag. Eco. 331. Statistical Problems	3	.....	
Speech 337. Project Speaking	3	.....	
Hort. 341. Principles of Genetics	4	.....	
Electives	3	.....	2	
			16	18

Senior Year

D. M. 411. Dairy Seminar	1	.....	
D. M. 420. Dairy Products Merchandising	2	.....	
D. M. 421. Creamery Organization and Control	2	.....	
D. M. 422. Dairy Technology	2	.....	
D. M. 431. Cheese Making	3	.....	
D. M. 433. Ice Cream Making	3	.....	
D. M. 441. Butter Making	4	.....	
Govt. 339-3310. American Government: Institutions, Functions	3	.....	3	3
Electives	5	.....	5	
			17	16

Hours required for graduation, 140.

Electives

The electives will be chosen from the following elective groups:

A. General Agriculture Minor—Courses to be selected from departments in the Division other than Dairy Manufactures. Three hours elective work in Dairy Manufactures will be allowed.

B. General Science Minor—Chemistry, Bacteriology, Physics, Mathematics, Engineering Drawing.

C. Business Administration and Economics—Business Administration, Economics including Agricultural Economics, Psychology.

D. Combination of A, B, and C, and Journalism, Physical Education, Foods, Ed. 234.

**CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE
IN AGRICULTURE
HORTICULTURE MAJOR**

For Uniform Freshman and Sophomore Years, see Page 74

Semester Hours
Sem. I Sem. II

Junior Year

Hort. 333. Fruit Culture	3	.....
Hort. 341. Principles of Genetics .....	.....	4
Agron. 311. Soils Laboratory	1	.....
Agron. 331. Forage and Pasture Crops .....	.....	3
P. I. 331. Plant Insects and Diseases and their Controls	3	.....
Ag. Eco. 325. Farm Records and Accounts .....	.....	2
Ag. Eco. 331. Statistical Problems	3	.....
A. H. 331. Animal Nutrition and Principles of Feeding .....	.....	3
Govt. 339-3310. American Government: Institutions, Functions	3	3
Electives	3	3
	16	18

Senior Year

Hort. 431-2. Advanced Pomology	3	3
Agron. 422-3. Soil Management	2	2
Ag. Engr. 411-2. Soil Management Laboratory	1	1
P. I. 411. Plant Industry Seminar .....	.....	1
P. I. 333. Functions of Horticultural and Agronomic Crop Plants .....	.....	3
P. I. 431. Advanced Plant Breeding and Improvement .....	.....	3
Ag. Eco. 423. Farm Management	2	.....
Speech 337. Project Speaking	3	.....
Electives	6	3
	17	16

Hours required for graduation, 140.

Electives

Electives may be chosen from the following groups. At least six hours must be chosen in any field.

- A. Plant Industry.
- B. Agricultural Economics, Animal Husbandry, Agricultural Education, Dairy Manufactures.
- C. Biology, Chemistry, Geology, Physics.
- D. Education, English, Languages, Journalism, Physical Education.
- E. Architecture, Engineering Drawing.
- F. Engineering, Mathematics, Physics; elect Math 131-2 instead of Math. 231-2.

DEPARTMENT OF AGRICULTURAL ECONOMICS, FARM MANAGEMENT, AND RURAL SOCIOLOGY

PROFESSOR McBRIDE. ASSISTANT PROFESSOR HARRISON.

The objective of this department is to provide instruction leading to the solution of the basic economic problems of technologically trained students and to the study of the business aspects of farming and ranching. Emphasis is placed on a study of consumer demand for agricultural products and of the methods best adapted to supplying such demand most economically, to increasing the standards of living of farm people, and to improving the agricultural industry as a whole.

In addition to providing instruction required of all agricultural students, courses are provided for students who wish preparation for research positions and commercial and industrial vocations closely allied with agriculture. The degree of Bachelor of Science in Agriculture with a major in Agricultural Economics is offered on the completion of the work prescribed by the department. The curriculum in Agricultural Economics is intended to meet the needs of students who expect to return to the farm, or enter county agent work, or vocational agriculture teaching, or to serve Federal or private agencies dealing with problems of rural planning. The two curricula offered in previous catalogues; i. e., a departmental major in Agricultural Administration and a departmental major in Farm Management will be available for students who entered under earlier catalogues, if they elect to complete their work in that manner.

AGRICULTURAL ECONOMICS

234. Principles of Agricultural Marketing. Cr. 3. I, II.

Prerequisite: Ag. Eco. 235 or its equivalent. The principles of marketing agricultural commodities. The application of economic fundamentals to the sale and purchase of farm products and supplies. Current changes in marketing conditions, consumer demand, price relationship, and natural and artificial control of sales functions.

235. Fundamentals of Economics. Cr. 3 I, II

Prerequisite: Sophomore standing. Analysis of fundamental economic theories and principles and their applications to modern economic problems. A brief working concept of economic theories and laws to be followed by application to the various vocations.

322. Marketing Agricultural Products. Cr. 2. II.

Prerequisite: Ag. Eco. 234. Problems and practices involved in the marketing of specific commodities as cotton, wheat, beef, hogs, dairy products, poultry, as especially adapted to the conditions of West Texas.

323. Advanced Agricultural Economics. Cr. 2. I.

Prerequisite: Ag. Eco. 234, 235. Analysis of proportions of factors of production; farm labor and wages; farm credit and rate of interest; rents and profits; landlord-tenant relations; crop estimates and forecasts.

325. Farm Records and Accounts. Cr. 2. I, II

Prerequisite: Junior standing. Application of principles and theory of accounting to farm and ranch business. Formulation and interpretation of farm records, including single enterprise cost accounts, complete cost accounts, and farm inventories. Analysis and adaptation of various methods of farm bookkeeping and accounting.

331. Statistical Problems. Cr. 3. I, II

Prerequisite: Junior standing, one year of mathematics. A survey of the important sources of agricultural statistics. Principles involved in the collection, analysis, presentation, and interpretation of agricultural data. Practice in statistical methods, including sampling, tabulations, averages, dispersion, probability, error, index numbers, trends, cycles, and correlation.

333. Cooperation in Agriculture. Cr. 3. I.

Formerly Ag. Eco. 321. Prerequisite: Ag. Eco. 234. Development, importance, and fundamental principles underlying cooperative purchasing, and cooperative production. Pooling systems, membership contracts, and laws affecting cooperative action of rural people. Several field trips to study existing West Texas cooperatives.

*411-2. Agricultural Economics Seminar. Cr. 1. I, II.

Prerequisite: Senior standing, or permission of the instructor. A discussion of current problems in the economics of agriculture. Topics and assigned readings, reports and discussions.

*On petition this one-year course may be subdivided into separate one-semester courses.

418. Ag. Seminar. Cr. 1.

I, II.

Open only to students having satisfactory scholastic records approved by the department. Investigation of a problem in the field of special interest to the student and presentation of a paper. May be repeated for full credit. Requires special approval of the Dean.

421. Land Economics. Cr. 2.

I.

Prerequisite: Junior standing. Land as a factor of production; classification and utilization of land; land income, tenure, calculation, property rights, deeds, credit, taxation.

422. Agricultural Prices and Forecasting. Cr. 2.

II.

Prerequisite: Ag. Eco. 331. The application of statistical methods to the refinement and practical use of agricultural prices and forecasting. Original research applied to one agricultural commodity of the student's choice.

423. Farm Management. Cr. 2, (1-3).

I, II.

Prerequisite: Ag. Eco. 325. Senior standing in Agriculture. The organization and management of the individual farm; types and systems of farming; capital requirements; farm machinery and equipment; labor supply and distribution. Factors affecting farm profits; practice in taking farm inventories and in making plans for reorganization. Field trips to nearby farms.

434. Advanced Farm Management. Cr. 3.

II.

Prerequisite: Ag. Eco. 423 and senior standing in Agriculture. Practices in finance as applied to organizing, administering, and operating farm business. Financial aspects of credit extension, selling and purchasing. Legal problems in farm organization and operation. Contracts, leases, liens, negotiable instruments, and insurance. Farm organization analysis and practices in reorganization.

511. Problems. Cr. 1.

S.

Prerequisite: Graduate standing; consent of instructor. Investigation and research on problems of special interest to teachers of vocational agriculture. A study of Agricultural Outlook and similar material; seminar discussions, reports, and presentation of papers. Offered on demand.

531. Problems in Land Use. Cr. 3.

Prerequisite: Ag. Eco. 421, graduate standing, and consent of head of department. Advanced study in the field of land use and the factors affecting land use. Offered on demand.

533. Marketing Problems. Cr. 3.

Prerequisite: Ag. Eco. 234 or equivalent, graduate standing, and consent of head of department. Advanced study in problems and practices in marketing of agricultural products, or of some selected farm product. Offered on demand.

534-5. Thesis. Cr. 3.

Prerequisite: Graduate standing, consent of head of department. Scientific research in the field of Agricultural Economics, Farm Management, or Rural Sociology. Offered on demand.

RURAL SOCIOLOGY

431. Agricultural Research and Extension Organization and Methods. Cr. 3, (1-6).

Prerequisite: Senior standing in Agriculture or Home Economics. The development of research, extension work, and vocational teaching of Agriculture and Home Economics. Methods and problems, programs, programs for research, extension work, and vocational teaching. Development of rural leadership and institutions. A complete survey of a selected county will be made by each student.

432. Rural Sociology. Cr. 3.

II.

Prerequisite: Junior or senior standing. Rural institutions and how they may be utilized to improve standards of living of rural people. The interrelation of rural and urban interests. Community and personal relationship and attitudes. Progressive and disorganizing tendencies as influenced by the economic situation. Methods of dealing with the problems involved.

532. Current Problems in Rural Sociology. Cr. 3.

Prerequisite: R. S. 432, or R. S. 431, graduate standing, and consent of head of department. Research in current labor problems of rural people. Offered on demand.

Courses in this department which may be taken for graduate credit are: Ag. Eco. 322, 323, 331, 333, 411, 412, 421, 422, 423, 434, 511, 531, 533, 534-5. R. S. 431, 432, 532, if an additional problem is done in each course numbered 300 or 400.

AGRICULTURAL EDUCATION

(Vocational Agriculture Teacher Training)

PROFESSOR CHAPPELLE. ASSOCIATE PROFESSOR LEACH.

ASSISTANT PROFESSOR RYAN.

The curriculum in Agricultural Education is designed to qualify the prospective teacher of vocational agriculture to teach under the Federal Vocational Education (Smith-Hughes) Act, and to supplement the student's instruction in technical and professional agriculture. To secure approval, the prospective teacher must receive the degree of Bachelor of Science in Agriculture or a higher degree in Agriculture. The flexibility of the course permits sufficient range in the choice of electives to permit students majoring in the several fields of technical agriculture to qualify without undue loss of time. In the case of students transferring credits from other institutions or curricula and wishing to teach vocational agriculture, substantially the same qualifications will be required. The satisfactory completion of the requirements will be followed by recommendations for permission to teach agriculture in high schools and by the necessary certification.

A minimum of four years of farm experience after the twelfth birthday is an important part of the requirements.

A teacher of vocational agriculture must be at least twenty-one years of age; must not have had more than five years teaching experience in non-vocational education; must not have any physical handicap that would interfere with his doing effectively the farm jobs and skills required of students of vocational agriculture.

There are included in the courses required in the Vocational Agriculture Education curriculum a number of courses which are required in some of the other Agriculture curricula, but which do not appear uniformly in all of them. These required courses are suitable for use as supervised electives in some of the various curricula; hence, it is possible for the students majoring in the Vocational Agriculture curriculum to meet the requirements of one of the other curricula by spending a small additional amount of time in College. As only one degree is offered in the Division of Agriculture, that being the degree of Bachelor of Science in Agriculture with a designated major, the student is not required to do a specifically designated amount of work to meet a second major, and he cannot receive an additional degree for meeting a second major. The student's work includes the two uniform years; and then at the beginning of the junior year, he enters upon the more specialized part of his work.

Certificate requirements for other purposes than for vocational agriculture education must be met by additional work.

Graduate students who desire to qualify to teach vocational agriculture under the Smith-Hughes Act should so state in submitting their credits for admission to the Graduate Division. A statement of courses to be completed for this certificate will be furnished upon request. The graduate program can be planned to include or partially include these requirements.

111. Orientation for Agricultural Students. Cr. 1.

I, II.

A survey of the field of agriculture. The relationship of the student to the college; habits of study; health; vocational guidance. Orientation lectures. Lectures by the Dean and various faculty members. Required of all freshmen students in the Division of Agriculture. Meets twice a week and requires one hour of preparation. Formerly G. A. 111.

321. Organization and Administration of Vocational Education in Agriculture. Cr. 2.

II.

Prerequisite: Ed. 234. Junior standing in Agriculture. Introduction to the teaching of the all-day, day-unit, part-time, and evening school classes in the high school. Organization and administration of the high school chapter of Future Farmers of America.

423. Problems. Cr. 2.

I.

Prerequisite: Senior or graduate standing and Ag. Ed. 441 and 442. An investigation and study of problems in the field of special interest to the individual student, seminar discussion, reports to the class, research and presentation of a paper. The content of this course will vary from time to time according to demand; may be repeated for credit.

441-2. Agricultural Education. Cr. 4, (3-3).

I, and II.

Prerequisite: Ag. Ed. 321, Psy. 231; senior standing in Agriculture. Analyzing the vocational agriculture teacher's job. The project method of teaching. The long-time program and annual teaching plan, equipment, reports, daily lesson planning, exhibits and displays. Opportunity for participation work in observation and directed teaching of evening, part-time, and all-day classes. Practice teaching. Much of the work is done in the field. Both semesters must be completed before credit for graduation will be given.

511. Problems. Cr. 1.

S.

Prerequisite: Completion of requirements to teach vocational agriculture under the Smith-Hughes Act. Current problems of the teacher in the field of vocational agriculture. Methods of teaching, matters of administration and integration of the vocational agriculture department in the high school. Problems of the all-day, part-time, day-unit, and evening-school classes. May be repeated for credit. This course is designed for teaching on three weeks basis in summer school.

522. Advanced Methods in Teaching Vocational Agriculture in All-Day Classes in the High School. Cr. 2.

I.

Prerequisite: Graduate standing.

523. Advanced Methods in Teaching Vocational Agriculture in Part-Time and Evening Schools. Cr. 2.

II.

Prerequisite: Graduate standing.

524. Advanced Methods of Conducting and Promoting Group Activities of Immediate Importance to Future Farmers. Cr. 2.

II.

Prerequisite: Graduate standing.

531. Investigations in the Field of Agricultural Education. Cr. 3.

I, S.

Prerequisite: Graduate standing and consent of the head of the department. Investigation of a problem in the field of vocational agriculture of special interest to the student, and presentation of a paper.

535-6. Thesis. Cr. 3.

1, and 11.

Prerequisite: Graduate standing and approval of the head of the department. Scientific research in the field of teaching vocational agriculture. Credit may be given for three hours if desired.

Courses in this Department which may be taken for graduate credit are: 321, 423, 441-2, if an additional problem is carried, and 511, 522, 523, 524, 531, 535-6.

DEPARTMENT OF ANIMAL HUSBANDRY

PROFESSORS STANGEL, MOWERY. ASSOCIATE PROFESSOR
HARBAUGH. ASSISTANT PROFESSORS FINE, STRICKLAND.

The Department of Animal Husbandry provides instruction designed to train students to select, breed, feed, manage, and market farm and ranch animals and poultry. It is the function of this department to furnish the student with the instruction and facilities for developing a background of sound principles, information, and skill which will enable him either to conduct livestock enterprises, or to engage in general farming, in which the production and utilization of livestock become integral parts of his system of farming.

Students may major in Animal Husbandry as candidates for the Degree of Bachelor of Science in Agriculture. Several of the courses offered are required of all Agricultural students, but any student in the College who has the prerequisites may enroll in any of the courses offered.

The Department owns two breeds of beef cattle, and three breeds each of dairy cattle, hogs, horses, and sheep, one breed of goats, and three varieties of poultry—all of which are maintained primarily for class instruction. The equipment of the department includes a livestock judging pavilion, a dairy barn with silo, three horse barns, a central hog house, and a meats laboratory. In

addition to large permanent pastures, there are also thirty-two acres in sheep pastures, twenty acres in hog pastures, and ten acres in a poultry farm—all fenced and cross-fenced and provided with housing facilities. Laboratory equipment for instruction in veterinary science, poultry brooding and incubation, meats, and livestock feeding and production is also available.

ANIMAL HUSBANDRY

121. Types and Market Classes of Cattle and Sheep. Cr. 2, (1-3). I.

The dairy, dual-purpose, and beef cattle industries. The mutton and fine-wool sheep industries. Description and value of types. Markets and market classifications. Slaughtering, carcasses, and packing house by-products. Wools and wool growing. Milk secretion. Score card and comparative judging.

122. Types and Market Classes of Hogs, Horses, and Mules. Cr. 2, (1-3). II.

The hog, horse, and mule industries. Description of types. Hog slaughtering, carcasses, and packing house by-products. Horse anatomy. Markets and market classes. Score card and comparative judging.

231. Breeds of Livestock. Cr. 3. I, II.

Prerequisite: A. H. 121, 122. The development of the breeds of beef cattle, dairy cattle, dual-purpose cattle, hogs, horses, sheep, and goats. Special emphasis upon the work of recent prominent breeders and the merits of individual animals.

321. Advanced Livestock Judging. Cr. 2, (0-6). I.

Prerequisite: A. H. 231, junior standing. Contrasting study and comparative show yard judging and grading of cattle, horses, mules, sheep, and swine. Selection of breeding and market animals. Inspection trips to farm herds, flocks, and leading livestock shows.

322. Farm Meats. Cr. 2, (0-6). I, II.

Prerequisite: A. H. 121, 122; Junior standing in Agriculture. Form, quality, and condition as affecting dressing percentage and quality of carcass. Slaughtering, dressing, cutting, and curing. Uses and market demands. Class limited to not more than sixteen. Special health certificate required of student.

323. Dairy Cattle. Cr. 2, (1-3). II.

Prerequisite: A. H. 231. Advanced dairy cattle judging. Outstanding breeders, families, and individuals. Advanced registry and herd improvement testing.

331. Animal Nutrition and Principles of Feeding. Cr. 3, (2-3). I, II.

Prerequisite: Chem. 341. Chemical composition of plants and animals. Digestion and metabolism. Digestibility, energy, and manurial value of feeds. Feeding standards and feeds. Feed requirements and calculation of rations for maintenance, growth, fattening, milk and wool production, and work. Practical feeding of laboratory animals.

411. Animal Husbandry Seminar. Cr. 1. II.

Prerequisite: Senior standing in Animal Husbandry. Assigned subjects. Review of recent investigations. Reports and discussions.

412. See A. H. 423.

413. See A. H. 423.

414. See A. H. 436.

415. See A. H. 436.

416. See A. H. 436.

418. Ag. Seminar. Cr. 1. I, II.

Open only to students having satisfactory scholastic records approved by the department. Investigation of a problem in the field of special interest to the student and presentation of a paper. May be repeated for full credit. Requires special approval of the Dean.

421. Purebred Herds and Flocks. Cr. 2, (0-6). I.

Prerequisite: A. H. 321. Blood lines, outstanding individuals, and selection of foundation sires and females. County fair exhibiting and judging.

422. Animal Breeding. Cr. 2. I.

Prerequisite: Hort. 341. Genetics applied to the improvement of farm animals. Fertility and sterility. Systems of breeding.

423. Showyard Judging and Practices. Cr. 2, (1-3). II, S.

Prerequisite: A. H. 231 and senior standing. Show personnel. Financing the show. Preparation of premium lists and show catalogues. Setting up livestock exhibits. Showyard judging. Good ethics. This course is to be offered in the summer school for graduate students as A. H. 412 and A. H. 413. A. H. 413 must be taken and completed before credit can be given on A. H. 412.

424. Beef Cattle Production. Cr. 2.**II.**

Prerequisite: A. H. 331. The beef cattle industry. Breeding, feeding, and marketing. Purebred herd and range management. Cattle ranching. Fitting for show and showing. Disease control. Laboratory practice with farm animals and equipment is done as assigned problems.

425. Horse and Mule Production. Cr. 2.**I.**

Prerequisite: A. H. 331. Review of the horse and mule industry. Breeding, feeding, breaking, training, stabling, harness and harnessing, and shoeing. Fitting for sale and show. Caring for brood mare and foal, stallion and jack. Parasites and diseases. Laboratory practice with farm animals and equipment is done as assigned problems.

426. Sheep and Wool Production. Cr. 2.**II.**

Prerequisite: A. H. 331. The sheep industry. Adaptation of breeds. Breeding, feeding, shearing, and marketing. Farm flock and range management. Fitting for show and showing. Parasites and diseases. Laboratory practice with farm animals and equipment is done as assigned problems.

427. Swine Production. Cr. 2.**II.**

Prerequisite: A. H. 331. The swine industry. Breeding, feeding, housing, marketing. Fitting for show and showing. Parasites, diseases, and sanitation. Laboratory practice with farm animals and equipment is done as assigned problems.

428. Dairy Cattle Production. Cr. 2.**I.**

Prerequisite: A. H. 331. The dairy industry. Feeding for growth, maintenance, and milk production. Handling and marketing milk and animals. Dairy barn construction and sanitation. Advanced registry and herd records. Laboratory practice with farm animals and equipment is done as assigned problems.

436. Comparative Meats. Cr. 3.**I, S.**

Prerequisite: Senior standing. Structure and composition of muscle, fat, and bone tissues. The beef carcass, wholesale and retail cuts. The lamb and mutton carcass, wholesale and retail cuts. The pork carcass, wholesale and retail cuts. Identification of cuts of meat. Offered in summer school to graduate students only, as A. H. 414, A. H. 415, A. H. 416. All three courses must be taken and completed before credit will be given in any one of the three.

438. Range Management. Cr. 3.**II.**

Prerequisite: Agronomy 437. The relationship of livestock to range management; history, development, and types of ranges; types and breeds of range livestock; the interrelationship between management of the soil and plant growth and the management of the animals and their requirements. One year's work requires registration in Agron. 437 in the preceding semester to receive any credit.

441. Livestock Production. Cr. 4, (3-3).**II.**

Prerequisite: A. H. 331. A modified course of A. H. 431, 432, 433, 434, and 435, and courses A. H. 424, 425, 426, 427, and 428. Problems. Feeds; feeding and managing of beef and dairy cattle, hogs, horses, mules, and sheep. For students not following an Animal Husbandry major.

531. Advanced Animal Husbandry. Cr. 3.**I.**

Prerequisite: Graduate standing and the consent of the head of the department. Investigations in the field of animal production and nutrition.

532. Advanced Animal Husbandry. Cr. 3.**II.**

Prerequisite: Graduate standing and the consent of the head of the department. Further investigations in the field of animal production and nutrition.

533-4. Thesis. Cr. 3.**I, and II.**

Prerequisite: Graduate standing and consent of the head of the department. Special research in some phase of livestock production which may form the basis of a Master's thesis.

POULTRY HUSBANDRY**131. Farm Poultry. Cr. 3, (2-3).****I, II.**

The poultry industry. Classes, breeds, and varieties. Judging, culling, breeding, feeding, housing, and marketing. Diseases and sanitation.

324. Advanced Poultry Judging. Cr. 2, (1-3).**II.**

Prerequisite: P. H. 131. History and characteristics of the standard breeds and varieties of poultry. Scoring and judging of exhibition and utility fowls. Inspection trips to farm flocks and poultry shows.

331. Incubation and Brooding. Cr. 3; (1-6).**II.**

Prerequisite: P. H. 131. Selection and care of eggs for hatching. Operation of incubator. Removing the hatch. Operation of a brooder for four weeks. Management and feeding of chicks until six weeks of age.

421. Poultry and Turkey Production. Cr. 2.**I.**

Prerequisite: P. H. 131 and A. H. 331. The poultry industry. Breeding, hatching, brooding, feeding for egg production and market, marketing, and housing. Grades and classes. Disease control, parasites, and sanitation. Laboratory practice with farm poultry and equipment is done as assigned problems.

VETERINARY SCIENCE

331. Anatomy and Physiology. Cr. 3, (2-3). I.
Prerequisite: A. H. 121, 122. The skeletal, muscular, digestive, circulatory, respiratory, and reproductive organs of farm animals. The physiology of the blood, lymph, circulatory, and respiratory systems, ductless glands, digestion, and organs of elimination.
332. Livestock Diseases and Parasites. Cr. 3. II.
Prerequisite: Vet. 331. The common infectious and non-infectious diseases. Common external and internal parasites. Prevention, treatment, and sanitation.
333. General Veterinary Science. Cr. 3. II.
Prerequisite: Junior or senior standing. A brief consideration of anatomy and physiology. Livestock sanitation, diseases, and parasites. Cannot be counted in fulfilling major requirements in Animal Husbandry.

Courses in this department which may be taken for graduate credit are: 322, 331, 411, 423, 424, 425, 426, 427, 428, 436, 438, and 441, if an additional problem is carried and 531, 532, 533-4.

DEPARTMENT OF DAIRY MANUFACTURES

PROFESSOR RENNER. ASSOCIATE PROFESSOR PEDERSON.
INSTRUCTOR HARMON.

The Department of Dairy Manufactures offers courses designed to instruct the student in the fundamentals of the science of dairying. Special technical courses are offered which prepare the student to become a general dairy plant operator; dairy, food, and sanitary inspector; dairy products salesman; and technical dairy laboratory control operator. The curriculum is so arranged that electives may be pursued in other fields closely allied with the dairy industry. Special emphasis is placed on instruction in the fundamental agricultural courses and in the sciences.

Certain courses in this department are required of all Agriculture students. While much of the work taught is planned especially for students majoring in this technical subject, all students in the College who have the proper prerequisites may enroll in these courses.

The department maintains a small dairy plant with modern equipment for laboratory instruction in market milk, cheese, butter, ice cream, condensed milk, and laboratory control of dairy products. Complete laboratory facilities are maintained for making analyses of dairy products. Individuals within the state of Texas may avail themselves of this service at the actual cost of performing the tests.

131. Principles of Dairying. Cr. 3, (2-3). I, II.
A general survey of the field of dairying. Composition of milk, milk analysis, manufacture of farm dairy products. Separators and milking machines.
222. The Dairy Industries. Cr. 2. I, II.
Prerequisite: D. M. 131. Development of the dairy industries. Relationship to agriculture. Promotion, policies, regulations.
321. Technical Control of Dairy Products. Cr. 2, (1-3). I.
Prerequisite: D. M. 131, Chem. 132. Chemical and physical tests used in the manufacture of various dairy products. Laboratory control methods for the dairy plant.
323. Market Grades and Classification of Dairy Products. Cr. 2, (1-3). I, II.
Commercial grades and classifications of dairy products. Practice in judging milk, butter, cheese, and ice cream. Student contests.
- 331-2. Market Milk and Inspection. Cr. 3. I, (3-0) and II, (2-3).
Prerequisite: D. M. 131, Bact. 231, Chem. 132. The fluid-milk industry. Milk and public health. City, state, and federal regulations and ordinances. Production, transportation, handling, retailing, wholesaling of milk; cost studies. Processing. Required field trip in second semester.
333. Domestic Dairying. Cr. 3, (2-3). S.
Production and uses of milk for the home. Food value of dairy products, home manufacture of dairy products. Emphasis on quality dairy products. Scoring of milk, butter, cheese, and ice cream. For Home Economics students. Given at intervals on demand.

- 334. Fundamentals of Dairy Science. Cr. 3, (2-3).** I.
Prerequisite: D. M. 131; Chem. 220, 341. A study of the chemical and physical principles which are of basic importance in the manufacture of dairy products.
- 335. Dairy Bacteriology. Cr. 3, (2-3).** II.
Prerequisite: D. M. 131, Bact. 231. Types of bacteria present in milk and milk products. Methods of control.
- 336. Food Industries. Cr. 3.** I.
Prerequisite: Junior standing. A study of the growth and development of the various types of food processing industries in the United States, types and classes of food products processed, personnel requirements, pure food requirements, economic aspects of combination food processing plants.
- 337. Technical Dairy Problems. Cr. 3.** II.
Prerequisite: Eight hours in Dairy Manufactures and junior standing. A study of the application of the physical principles of heat and power to the operation of dairy plant equipment. Practical design of dairy plants, construction materials, dairy refrigeration, water problems, steam and water fittings, plumbing, sewage disposal, and steam boilers.
- 411. Dairy Seminar. Cr. 1.** II.
Prerequisite: Senior standing in Dairy Manufactures. A review of scientific literature. Papers and reports. Class discussion.
- 412. Starters and Cultured Milk. Cr. 1, (0-3).** I.
Prerequisite: D. M. 335. A study of the bacteriology of starters and the technique of preparing cultures for use in different dairy manufacturing operations. As taught, usually necessitates that only a part of semester must be used.
- 418. Ag. Seminar. Cr. 1.** I, II.
Open only to students having satisfactory scholastic records approved by the department. Investigation of a problem in the field of special interest to the student and presentation of a paper. May be repeated for full credit. Requires special approval of the Dean.
- 420. Dairy Products Merchandising. Cr. 2.** I.
Prerequisite: Junior standing. Special practices, organization, ethics, and methods of merchandising dairy products.
- 421. Creamery Organization and Control. Cr. 2.** II.
Prerequisite: Junior standing. The organization and control of the dairy plant from a business standpoint. Labor control. Duties of plant manager, and relationship of manager to the business. Required field trip.
- 422. Dairy Technology. Cr. 2.** II.
Prerequisite: D. M. 131, Bact. 231, Chem. 341. The manufacture of condensed milk and milk powder, malted milk, milk casein, commercial buttermilk, and whey. Supplemented by field trips.
- 431. Cheese Making. Cr. 3, (2-3).** I.
Prerequisite: D. M. 131, Bact. 231, Chem. 341. Classification of foreign and domestic varieties of plain and fancy cheese. Manufacture of soft cheese and the more common varieties of semi-hard and hard cheeses. Required field trip.
- 432. Dairy Industry Problems. Cr. 3.**
Prerequisite: Senior standing in Dairy Manufactures. Investigation of a special problem in the field of dairy industry in which the student has a special interest. Offered at intervals when demand justifies.
- 433. Ice Cream Making. Cr. 3, (2-3).** II.
Prerequisite: D. M. 131, Bact. 231, Chem. 341. History and development of the ice cream industry. Ice cream ingredients; standardization and calculation of mixes. Processing. Cost studies. Supplemented by field trips.
- 435. Dairy and Food Inspection. Cr. 3, (2-3).** II.
Prerequisite: Chem. 341 or equivalent, Bact. 335 or equivalent. A study of local, state, and federal dairy and food regulations; methods used in the inspection of food products in the field and laboratory; analysis of dairy and food products. Required field trip.
- 436. Food Beverages. Cr. 3, (2-3).** II.
Prerequisite: D. M. 335 or equivalent, Chem. 341. A study of the preparation and sale of food beverages, fruit juices, carbonated drinks, milk drinks, and other food beverages, flavoring materials, formulae, standards, and methods of laboratory control.
- 437-8. Food Processing. Cr. 3, (2-3).** I, and II.
Prerequisite: D. M. 335, Chem. 341 or the equivalent, D. M. 336. A study of factory methods used in the processing of fruits, vegetables, cereals, meat products, salad dressings, and sandwich spreads. The canning, preserving, drying, and freezing of food products, U. S. Food Standards and Market Grades for the various food products. Plant equipment and arrangement, laboratory control measures. Required field trip in second semester.

441. Butter Making. Cr. 4, (2-6).**I.**

Prerequisite: D. M. 131, Bact. 231, Chem. 341. History of the butter industry. Manufacture of sweet and sour cream butter; neutralization; cream ripening; butter defects. Actual plant practice in the manufacture of butter.

512. Advanced Dairy Products Quality Control. Cr. 1.**S.**

Prerequisite: Graduate standing in Agriculture. Judging quality in dairy products and discussion of problems relative to quality control especially milk, cream, butter, cheese, and ice cream.

531-2. Thesis. Cr. 3, (0-9).**I, and II.**

Prerequisite: Graduate standing and consent of the head of the department. Scientific research in one of the following fields in the dairy industry: market milk, butter, cheese, ice cream, dairy bacteriology, condensed milk, or milk powder.

533-4. Dairy Manufacturing Problems. Cr. 3, (0-9).**I, and II.**

Prerequisite: Graduate standing in Agriculture and consent of the head of the department. Selection of a problem in dairy manufacturing industries, outlining of problem, review of available literature, securing data, and compilation of results.

Courses in this department which may be taken for graduate credit are: 331-2, 333, 334, 335, 411, 412, 420, 421, 422, 431, 433, 435, 436, 437-8, and 441 if an additional problem is carried in each course, and 512, 531-2, and 533-4.

DEPARTMENT OF PLANT INDUSTRY**PROFESSORS YOUNG, HOWELL, LEIDIGH. ASSOCIATE PROFESSOR****YOCUM. ASSISTANT PROFESSORS CLAY, DUKE. INSTRUCTORS****MADER, ELLE.**

The Department of Plant Industry offers work in horticulture, agronomy, farm machinery, and genetics. While several of the courses presented are service courses and as such are required of all students in Agriculture, the department offers an opportunity for all students to major in options in Plant Industry as candidates for the degree Bachelor of Science in Agriculture.

In view of the fact that, in addition to the fundamentals of agronomy and horticulture, these subjects require intimate local application, the department maintains field plots and an orchard and vineyard in which many varieties of farm crops, fruit trees, and grapes are grown to illustrate practically all of the material that it is possible to produce in this region. A nursery is maintained for instruction and practice in plant propagation. A small, well-equipped greenhouse, apiary, honey house, and farm machinery shop are part of the equipment.

The horticulture major includes instruction in the basic principles underlying plant propagation, orcharding, olericulture, floriculture, ornamentals, and landscape gardening. The agronomy major includes instruction in the basic principles of forage crop production, grain crops, crop breeding and improvement, pasture management, soils, soil fertility, and soil management, especially under sub-humid climatic conditions, and moisture utilization in irrigation farming and dry farming. The Agronomy and Farm Machinery major includes instruction in the fundamentals of agronomy and gives the student rather an extensive training in care, use, repair, and management of farm machines and the design, theory, and construction of farm buildings, moisture conservation structures, and irrigation systems. The department also teaches the science of genetics particularly stressing its application to plant and animal improvement. Although most of the work taught in this department is offered for students majoring in these technical subjects, all students in the College who have the prerequisites may enroll in these courses. In some of the courses field trips are taken, and since the College is located in a highly developed and productive region, these trips are of great assistance to the student.

PLANT INDUSTRY**321. Apiculture. Cr. 2, (1-3).****II.**

Prerequisite: Junior standing. Introduction to practical beekeeping. Best practices in vogue among beekeepers. Emphasis on value of bees in production of horticultural and agronomic crops.

331. Plant Insects and Diseases and Their Control. Cr. 3. I and II
Prerequisite: Junior standing in Agriculture or Biology. The most important fruit, vegetable, and crop insects and diseases—and their control. Sprays, methods of spraying, and spray calendars.
333. Functions of Horticultural and Agronomic Crop Plants. Cr. 3. II.
Prerequisite: Hort. 131 and 231, Agron. 131, 221, and junior standing. The behavior, growth processes, temperature relations, moisture relations, drought resistance, nutrition and food reserves, pollination, fertilization, and fruit setting, and permanent effects resulting from insect and fungi invasion of horticultural and agronomic crop plants.
411. Plant Industry Seminar. Cr. 1. II.
Prerequisite: Senior standing in Plant Industry. Assigned readings. Current advances and thought. Informal discussions, oral reports, and papers.
418. Ag. Seminar. Cr. 1. I, II.
Open only to students having satisfactory scholastic records approved by the department. Investigation of a problem in the field of special interest to the student and presentation of a paper. May be repeated for full credit. Requires special approval of the Dean.
421. Plant Industry Problems. Cr. 2. I, II.
Prerequisite: Open to students having satisfactory scholastic record. An investigation of a problem in the field of special interest to the individual student concerned. Preparation of a research paper or a final examination.
431. Advanced Plant Breeding and Improvement. Cr. 3. II.
Prerequisite: Hort. 341 and two advanced courses in the department. Practical application of plant genetics in the breeding and improvement of plants. Research methods. The seed or the plant propagation farm.
432. Plant Industry Problems. Cr. 3. I, II.
Prerequisite: Open to all students having satisfactory scholastic records. An investigation of a problem in the field of special interest to the individual student concerned.
- 512-3-4. Graduate Seminar. Cr. 1. (each semester). I, II, or S.
Prerequisite: Graduate standing in Agriculture or equivalent. Review and discussion of current literature in the field.
- 531-2-3. Plant Industry Thesis. Cr. 3, 6, or 9. I, II, or S.
Prerequisite: Graduate standing and consent of major professor and head of the department. Credit will vary with problem as outlined in Plant Industry. Outline of problem, review of literature, experimentation, accumulation, analysis, organization of data, and preparation of thesis.
535. Research Methods. Cr. 3. I.
Prerequisite: Graduate standing in Agriculture or equivalent. Project outlines, research administration, research organization, fellowships, research budgets, thesis organization and writing, research foundations.

AGRONOMY

131. The Fundamentals of Crop Production. Cr. 3, (2-3). I, II.
A survey course. The importance and value of crops, their classification, identification, distribution, production, grading, and use. Tillage and elementary soils. Diseases and pests.
221. Soils. Cr. 2. I, II.
Prerequisite: Agron. 131, Chem. 131. Origin, formation, classification of soils. Physical chemical, and biological requirements. Organic matter, moisture, productiveness, adaptation to use, and maintenance of soil fertility.
311. Soils Laboratory. Cr. 1, (0-3). I, II.
Prerequisite: Agron. 221 or registration in Agron. 221. A laboratory and field study of soil-forming materials, soil texture, mechanical analysis, moisture relationships, classification, profile identification, organic matter identification, field surveying, mapping, and determination of plant food availability in soils.
323. Principles of Crop Judging and Grain Grading. Cr. 2, (0-6). II.
Prerequisite: Agron. 131 and 221. The principles and factors determining the quality and value of seeds, grains, and crop products, farm and commercial consideration. Practice in identification, grading, judging, and testing.
331. Forage and Pasture Crops. Cr. 3, (2-3). I, II.
Prerequisite: Agron. 131 and one year of botany. The production, harvesting, storage, and uses of forage crops, green manure, cover crops, hay, and pasture crops. Identification of seeds and plants. Classification, life history, and economic value of adapted pasture plants. Injurious plants and their control. Pasture conservation, revegetation, and management.
332. Grain Crops. Cr. 3, (2-3). I.
Prerequisite: Agron. 131, and one year of botany. The production, harvesting, storage, grading, and use of grain crops. Adaptation, identification, and general improvement.

421. Cotton and Other Fiber Crops. Cr. 2. II.
Prerequisite: Junior standing in Agronomy or approval of instructor. Culture and classification of cotton. Improvement of varieties. Diseases and insect pests of cotton. World cotton production.
422. Soil Management. Cr. 2. I.
Prerequisite: Agron. 221, 331, and registration in Ag. Engr. 411. Soil moisture conservation, run-off prevention, control of soil erosion, terracing, and supplemental water supply. Permanent farming under the conditions of light or wide seasonal variations of rainfall.
423. Soil Management. Cr. 2. II.
Prerequisite: Agron. 221, 331, 422, and registration in Ag. Engr. 412. Advanced soil conditions and plant growth. The nature and sources of plant nutrients, their liberation and conservation. Use of supplements and fertilizers. Irrigation.
424. Advanced Crop Judging and Grain Grading. Cr. 2, (0-6). I.
Prerequisite: Agron. 323, 331, 332. Special work in identification, judging, testing, grading, and market standards for grain crops, hay crops, and general farm seed crops.
434. Soil Erosion and Conservation. Cr. 3, (2-3). I, II, or S.
Prerequisite: Junior standing. A study of types of erosion, their causes and controls. Inspection trips to soil conservation projects and experiment stations in this region. Subject matter includes work and methods used in Soil Conservation Service.
435. Soil Morphology and Genesis. Cr. 3, (2-3) I, II, or S.
Prerequisite: Eighteen hours of Agronomy or equivalent, including Agronomy 423 or equivalent. The origin and classification of soils of the world and particularly of the United States.
436. Soil Chemistry. Cr. 3. I, II, or S.
Prerequisite: Chemistry 220, 341, Agronomy 423, or equivalent. Chemistry of the soil as affected by cultivation, crop rotation, fertilizers, and moisture relationships.
437. Range Management. Cr. 3, (2-3). I.
Prerequisite: Senior standing, Agronomy 331, and Animal Husbandry 331. The agronomic management problems concerned in the protection and use of plants and soils under range conditions. Ecology, soil relationships, moisture conservation, revegetation, forage value and yields of permanent, temporary, and supplemental pasture and range plants. One year's work; requires registration in A. H. 438 in following semester to receive any credit.
439. Soil Microbiology. Cr. 3. I, II, or S.
Prerequisite: Bacteriology 231, Chemistry 220 and 341, Agronomy 423, or equivalent. The plant and animal forms of micro-organisms in the soil with particular emphasis upon the functions of the soil bacteria and their influence upon the decomposition of organic matter and soil fertility in general.
- 511-2-3. Grain Judging. Cr. 1, (0-3). I, II, or S.
Prerequisite: Graduate standing or a degree in Agriculture. A study in the technique of judging, grading, identification, and selection of grains, seeds, and hay. All three courses must be taken and completed before credit will be given in any one of the three. Not open to students doing major work in Agronomy.

HORTICULTURE

131. Plant Propagation. Cr. 3, (2-3). I, II.
Plant propagation, green house and nursery practice. Propagation by seeds, cuttings, division, separation, budding, and grafting.
231. Vegetable Gardening. Cr. 3, (2-3). I, II.
Prerequisite: Hort. 131. The basic principles of market gardening and truck farming. Planning, planting, and caring for the home garden.
322. Landscape Appreciation. Cr. 2. II.
Prerequisite: Junior standing. History of gardening. Basic principles of landscape design for city and farm homes. Practice work on landscape problems. The principal trees and shrubs.
331. Trees and Shrubs. Cr. 3. I.
Prerequisite: Junior standing. Identification characteristics, and use of shrubs, deciduous and evergreen trees of economic and ornamental importance. Offered in alternate years; not offered in 1941-42.
332. Annuals and Perennials. Cr. 3. II.
Prerequisite: Junior standing. Identification, characteristics, culture, and uses of annuals, perennials, bulbous crops, and outdoor roses. Offered in alternate years; offered in 1941-42.
333. Fruit Culture. Cr. 3, (2-3). I.
Prerequisite: Hort. 131, junior standing in Agriculture. Principles of fruit production; particularly, the home orchard. Tree fruits, grapes, and small fruits. Climatic, soil, and water requirements. Varieties and cultural practices. Offered in alternate years; offered in 1941-42.

334-5. Principles of Floriculture. Cr. 3, (2-3). I, and II.
Prerequisite: Hort. 131, junior standing. Greenhouse construction, heating, and management. Culture of special greenhouse crops. Retail management, flower arrangement, and nursery management. Offered in alternate years; not offered in 1941-42.

336-7. Landscape Design. Cr. 3, (1-6). I, and II.
Prerequisite: Engr. Drawing 223, Arch. 121, and Arch. 2216; junior standing. Principles of landscape design: the city home, country estates, gardens, small city parks, and playgrounds.

341. Principles of Genetics. Cr. 4, (3-3). I, II.
Prerequisite: For Agriculture students, Bot. 131-2, Ag. Eco. 331; for non-Agricultural students, Math. 131. Heredity and variation in both plants and animals. History. The chromosome theory in higher animals, poultry, and insects. Biometry as applied to genetic data stressing economic plants and animals. The laboratory work may be modified for non-Agriculture students.

421. Citriculture. Cr. 2. I.
Prerequisite: Junior standing. Commercial production of citrus fruits, adaptation, soil requirements, temperature, orchard heating, and irrigation. Offered in alternate years; offered in 1941-42.

431-2. Advanced Pomology. Cr. 3. I, and II.
Prerequisite: Hort. 333, or registration in Hort. 433. The principles underlying fruit production. Temperature, moisture, irrigation, nutrition, fruit setting of pomological fruits. Offered in alternate years; not offered in 1941-42.

433. Systematic Pomology. Cr. 3, (2-3). I.
Prerequisite: Hort. 333, or registration in Hort. 431. Nomenclature, variety description, classification, climatic and regional adaptation. Practice in describing and identifying varieties of fruits. Offered in alternate years; not offered in 1941-42.

434. Horticultural Problems. Cr. 3. I, II.
Prerequisite: Junior standing. An investigation of a problem in the field of special interest to the individual student concerned. Preparation of a thesis or special examination.

AGRICULTURAL ENGINEERING

321-2. Farm Shop. Cr. 2, (1-3). I, and II.
Prerequisite: Junior standing. Care, fitting, and use of tools. Woodwork as affects farm problems. Construction of structures. Minor repair work for farm machinery and engines. Farm sheet metal, forging, pipe fitting, concrete, electric wiring, painting, and rope work.

323. Farm Machinery. Cr. 2, (1-3). I.
Prerequisite: Junior standing. Construction, care, operation, and repair of the different types of farm machinery.

331-2. Farm Power. Cr. 3, (2-3). I, and II.
Prerequisite: Junior standing. The fundamental principles of operation of the gasoline engine as a source of farm stationary power, its operation, care, and repair. Use of wind power and care and repair of wind engines. Operation, care, and repair of modern farm tractor. Use of electricity for stationary power, care of electric motors, methods of generating electricity for domestic use.

411. Soil Management Laboratory. Cr. 1, (0-3). I.
Prerequisite: Registration in Agron. 422. Terrace location, design, and construction for soil erosion control and moisture conservation. Design and construction of structures for terrace outlet and gully control.

412. Soil Management Laboratory. Cr. 1, (0-3). II.
Prerequisite: Registration in Agron. 423. Design and lay-out of ditches and systems for irrigation or drainage. Tile drainage. Use of explosives. Measurements of water. Methods of applying water to land. Irrigation equipment and power requirements.

418. Ag. Seminar. Cr. 1. I, II.
Open only to students having satisfactory scholastic records approved by the department. Investigation of a problem in the field of special interest to the student and presentation of a paper. May be repeated for full credit. Requires approval of the Dean.

431. Farm Buildings. Cr. 3. II.
Prerequisite: Senior standing. Farm building objectives, location for efficient operation and sanitation. Materials of construction, dimensions, and floor plans.

Courses in this department which may be taken for graduate credit are: P. I. 431, 432, Hort. 431-2, 433, 434, Agron. 421, 422, 423, 434, 435, 436, 437, 439, Ag. Engr. 411, 412, if additional problem is carried and P. I. 512-3-4, 531-2-3, 535, Agron. 511-2-3.

DIVISION OF ENGINEERING

O. V. ADAMS, DEAN

The importance of the Division of Engineering in Texas Technological College is stressed in the first section of the bill by which the Thirty-eighth Legislature established this institution. It is there pointed out that the commercial development of our State depends largely upon the opportunities for students to receive thorough training in engineering and manufacturing fields.

Purpose. The aim and purpose of the Division of Engineering is to give students a thorough knowledge of the fundamentals of all engineering work with specialization in one particular line only to the extent that experience appears to demand as a minimum. In other words, the course of study in the Division of Engineering is planned with the view of giving the student the essential, basic training which he can not get after graduation, leaving a large part of his specialization to his later professional employment. Experience has shown this type of training to produce the most successful engineers.

Engineering has been defined as the "scientific utilization of the forces and materials of nature in the construction, production, and operation of works for the benefit of man." Therefore, the fundamental training of the engineer includes a knowledge of pure science, as well as its application to the various specialized fields. As an aid to the development of a scientific attitude, engineering instruction aims to emphasize the qualities of honesty, loyalty, thoroughness, and industry and to foster the desire for learning and for a knowledge of the ethics of the profession.

Degrees Granted. The Division of Engineering offers the following four-year curricula, each leading to the degree of Bachelor of Science in its respective field:

Chemical Engineering; Civil Engineering; Electrical Engineering; Industrial Engineering; Mechanical Engineering; Petroleum Engineering; Textile Engineering.

In the Department of Architecture and Allied Arts five-year curricula in Architecture and Commercial Art are offered leading to the degrees of Bachelor of Architecture and Bachelor of Commercial Art respectively. For those who desire it, the Bachelor of Arts degree will be conferred upon the completion of the first four years of the prescribed five-year course in Commercial Art. However, one receiving the Bachelor of Arts degree must do at least one semester or two six-weeks summer terms prior to the time when his degree in the five-year curriculum is conferred.

Field For Graduates. The engineering student upon graduation usually spends a period of time in apprentice or subordinate positions securing experience and preparing himself for the more important work of the executive, the designer, the consulting engineer, the teacher, or the operator.

Engineering training is recognized as desirable preparation for a commercial career. From sixty to seventy per cent of engineering graduates in the past have eventually held executive positions.

Surveys of employment records of engineering graduates disclose the fact that men who have had an engineering education have found their way into nearly every type of vocation. A few of the vocations which the engineering graduate may reasonably expect to enter upon graduation, or after a period of practical experience, have been indicated in the beginning of the departmental descriptions.

Attention is called to the fact that in a civilization such as ours where one is constantly in contact with the results of our modern industrial development, no type of education is more suitable than that leading to an engineering degree.

Buildings. The first unit of the Textile Building was completed at the opening of the College. It is a two-story building 60x220 feet, which cost with its equipment of modern textile machinery approximately \$250,000.

The Mechanical Engineering shops are housed in the Shops Building and a portion of the Power Plant Building. Approximately 6,800 square feet of floor space are available for courses in wood work, machine shop, foundry, sheet metal, and welding.

The first unit of the Engineering Building was built during the school year of 1927-28 and was ready for use at the opening of the 1928-29 session. This unit cost approximately \$250,000, and has a floor area of about 52,000 square feet. It includes offices for the Engineering faculty, and laboratories and class rooms for the departments of Architecture and Allied Arts; Civil Engineering; Electrical Engineering; Mechanical Engineering; and Industrial Engineering and Engineering Drawing.

Approximately \$70,000 has been expended for apparatus for the laboratories mentioned above.

Suggested High School Preparation. An ideal high school course of study for the student who plans to study engineering in college may be selected from the following:

English, algebra, plane geometry, physics, chemistry, history, foreign language, typing, civics, drawing, shop, and speech. The student should take three and preferably four years of English, two years of algebra, one year of plane geometry, one year of physics, and one year of chemistry if possible.

See entrance requirements, Engineering Division, page 37.

Requirements For Graduation. All four-year students in the Division of Engineering, except those in the Department of Architecture and Allied Arts are required to take identical work throughout the freshman year. This is done in order that the student, before choosing his professional field, may have the opportunity of becoming familiar with the courses of instruction and the possibilities after graduation in the various fields of engineering.

Freshmen students are required to take engineering orientation which includes lectures and motion picture showings on the scope and opportunities of the various fields of the engineering profession.

Electives in any curriculum must be approved by the head of the department in which the student seeks a degree. This approval must be secured and filed in the office of the Dean before the student registers for the course.

Subjects to absolve extra hours required because of excessive absences or for deficiency in grade points must be approved by the Dean. No approval will be given to remove a deficiency in grade points until the student has substantially completed his required curriculum. This approval may not be retroactive. Advanced Military Science credit can not be used to absolve extra hours required because of an excessive number of absences.

It is recommended that all students majoring in Chemical Engineering acquire a reading knowledge of German before graduation.

CURRICULA FOR ENGINEERING STUDENTS

UNIFORM FRESHMAN YEAR FOR ENGINEERING STUDENTS

To be used in connection with curricula in Chemical, Civil, Electrical, Industrial, Mechanical, Petroleum, and Textile Engineering.

	Semester Hours	
	Sem. I	Sem. II
Eng. 131-2. Freshman Composition	3	3
Chem. 131-2. General Chemistry	3	3
Math. 121-2. Algebra	2	2
Math. 131. Trigonometry	3	.....
Math. 132. Analytics .....	.....	3
Engr. Dwg. 132-3. Engineering Drawing	3	3
Engr. Or. 111. Engineering Orientation	1	.....
M. S. 111-2, Military Science; P. E. 113-4, Physical Education; or Music 111-2, Band	1	1
	16	15

**CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE
IN CHEMICAL ENGINEERING**

For Freshman Year See Page 96

Sophomore Year

Chem. 220. Qualitative Analysis	2	.....
Chem. 242. Inorganic Chemistry .....	.....	4
Chem. 331-2. Quantitative Analysis	3	3
Phys. 235-6. Engineering Physics	3	3
Phys. 215-6. Physical Measurements	1	1
Math. 251. Calculus	5	.....
C. E. 331. Applied Mechanics—Statics .....	.....	3
Eco. 231-2. Principles of Economics	3	3
M. S. 211-2. Military Science; P. E. 213-4, Physical Education; or Music 211-2, Band	1	1
	18	18

Junior Year

Chem. 343-4. Organic Chemistry	4	4
Chem. 441-2. Physical Chemistry	4	4
Chem. 431-2. Principles of Chemical Engineering	3	3
C. E. 332. Applied Mechanics—Kinematics and Kinetics	3	.....
C. E. 333. Applied Mechanics—Strength of Materials .....	.....	3
E. E. 426-7. Elements of Electrical Engineering	2	2
E. E. 412-3. Electrical Engineering Laboratory	1	1
	17	17

Senior Year

Chem. 411-2. Chemistry Seminar	1	1
Chem. 443. Industrial Chemistry	4	.....
Chem. 446. Advanced Chemical Engineering .....	.....	4
Chem. 433. Stoichiometry .....	.....	3
M. E. 334. Elementary Thermodynamics	3	.....
M. E. 335. Heat Engines .....	.....	3
M. E. 317-8. Heat Engineering Laboratory	1	1
M. E. 337. Metallurgy	3	.....
Ind. Engr. 421-2. Chemical Plant Design	2	2
Speech. 337. Project Speaking	3	.....
Eng. 233. Technical Writing .....	.....	3
	17	17
*Govt. 131-2. American Government, National and State	3	3

*To comply with the laws of the State of Texas the applicant for a degree under this curriculum must complete six semester hours in Federal and State Constitutions, except that three semester hours "in a course in Military Science as provided in an approved senior R. O. T. C. unit" may be substituted for three semester hours of government.

Note: See last paragraph, **Requirements for Graduation**, on preceding page.

Advanced Military Science may be substituted for Speech 337 in accordance with catalogue regulations.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL ENGINEERING

For Freshman Year See Page 96

Sophomore Year

	Semester Hours	
	Sem. I	Sem. II
Eng. 233. Technical Writing		3
Geol. 233. General Geology for Engineers	3	
C. E. 231-2. Plane Surveying	3	3
Math. 251. Calculus	5	
Math. 233. Calculus Applications		3
Chem. 220. Qualitative Analysis	2	
Engr. Dwg. 222. Descriptive Geometry		2
C. E. 331. Applied Mechanics—Statics		3
Phys. 235-6. Engineering Physics	3	3
Phys. 215-6. Physical Measurements	1	1
M. S. 211-2. Military Science; P. E. 213-4, Physical Education; or Music 211-2, Band	1	1
	18	19

Junior Year

C. E. 332. Applied Mechanics—Kinematics and Kinetics	3	
C. E. 333. Applied Mechanics—Strength of Materials		3
C. E. 334. Surveying		3
C. E. 320. Structures	2	
C. E. 330. Structures		3
C. E. 335. Highway Engineering	3	
C. E. 336. Highway Engineering		3
C. E. 311. Highway Laboratory		1
M. E. 334. Elementary Thermodynamics	3	
M. E. 335. Heat Engines		3
Speech 337. Project Speaking		3
Bact. 321. Bacteriology for Engineers	2	
C. E. 420. Hydraulics	2	
C. E. 410. Hydraulics Laboratory	1	
C. E. 426. Municipal Sanitation	2	
	18	19

Senior Year

C. E. 431-2. Reinforced Concrete	3	3
C. E. 433-4. Structures	3	3
C. E. 423. Economics of Highway Design	2	
C. E. 424-5. Materials of Engineering	2	2
C. E. 439. Law and Ethics in Engineering		3
Eco. 235. Principles of Economics	3	
E. E. 426-7. Elements of Electrical Engineering	2	2
E. E. 412-3. Electrical Engineering Laboratory	1	1
Elective A.	3	3
	19	17

*Govt. 131-2. American Government, National and State 3 3

*To comply with the laws of the State of Texas the applicant for a degree under this curriculum must complete six semester hours in Federal and State Constitutions, except that three semester hours "in a course in Military Science as provided in an approved senior R. O. T. C. unit" may be substituted for three semester hours of government.

Elective A. Choices made from the following are suggested: C. E. 437, 438; B. A. 244, 245; Eco. 332, 333, 334, 438. Other courses may be chosen subject to approval by Department Head.

Advanced Military Science may be substituted for Speech 337 and M. E. 335 in accordance with catalogue regulations.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

For Freshman Year See Page 96

Sophomore Year

	Semester Hours	
	Sem. I	Sem. II
Eng. 233. Technical Writing	3	3
Chem. 220. Qualitative Analysis	2	2
Math. 251. Calculus	5	3
Math. 233. Calculus Applications	3	3
Phys. 235-6. Engineering Physics	3	3
Phys. 215-6. Physical Measurements	1	1
Engr. Dwg. 221. Machine Drawing	2	3
E. E. 230. Principles of Electrical Engineering	1	3
M. E. 311. Pattern Shop	1	3
M. E. 312. Foundry	1	3
M. E. 221. Engineering Problems	2	3
C. E. 231. Plane Surveying	3	3
C. E. 331. Applied Mechanics—Statics	3	3
M. S. 211-2. Military Science; P. E. 213-4, Physical Education; or Music 211-2, Band	1	1
	19	19

Junior Year

E. E. 331-2. Principles of Electrical Engineering	3	3
E. E. 321-2. Electrical Engineering Laboratory	2	2
C. E. 332. Applied Mechanics—Kinematics and Kinetics	3	3
C. E. 333. Applied Mechanics—Strength of Materials	3	3
M. E. 334. Elementary Thermodynamics	3	3
M. E. 335. Heat Engines	1	1
M. E. 317-8. Heat Engineering Laboratory	1	1
M. E. 313-4. Machine Shop	1	1
M. E. 333. Kinematics of Machinery	3	3
Eco. 235. Principles of Economics	3	3
Speech 337. Project Speaking	2	3
Math. 321. Differential Equations	2	3
	18	19

Senior Year

E. E. 431. Advanced Circuit Theory	3	3
E. E. 432. Alternating Current Machinery	2	2
E. E. 421-2. Electrical Engineering Laboratory	2	2
E. E. 423. Transformer Theory	3	3
E. E. 433. Transmission	3	3
E. E. 434. Communication	1	3
E. E. 410. Current Electrical Engineering	1	3
E. E. 436. Electron Tubes	3	3
C. E. 439. Law and Ethics in Engineering	3	3
I. E. 332. Management—Production Planning and Control	3	1
C. E. 310. Testing Laboratory	2	2
C. E. 420. Hydraulics	2	2
Phys. 423-4. Electrical Measurements	2	2
	18	17
*Govt. 131-2. American Government, National and State	3	3

*To comply with the laws of the State of Texas the applicant for a degree under this curriculum must complete six semester hours in Federal and State Constitutions, except that three semester hours "in a course in Military Science as provided in an approved senior R. O. T. C. unit" may be substituted for three semester hours of government.

Advanced Military Science may be substituted for Speech 337 and English 233 in accordance with catalogue regulations. The substitution may not be made for English 233 unless a B average or better has been made in English 131-2.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING

For Freshman Year See Page 96

Sophomore Year

	Semester Hours	
	Sem. I	Sem. II
Engr. Dwg. 221. Machine Drawing	2	.....
Engr. Dwg. 222. Descriptive Geometry	2	.....
Psy. 230. Introduction to Psychology	3	.....
M. E. 221. Engineering Problems	2	.....
M. E. 211. Sheet Metal Work	1	.....
M. E. 311. Pattern Shop	1	.....
Chem. 220. Qualitative Analysis	2	.....
Math. 251. Calculus	5	.....
Phys. 235-6. Engineering Physics	3	3
Phys. 215-6. Physical Measurements	1	1
B. A. 244. Introduction to Accounting	4	.....
Eco. 231-2. Principles of Economics	3	3
M. S. 211-2. Military Science; P. E. 213-4, Physical Education; or Music 211-2, Band	1	1
	18	20

Junior Year

Engr. Dwg. 322. Advanced Machine Drawing	2	.....
Speech 337. Project Speaking	3	.....
C. E. 331. Applied Mechanics—Statics	3	.....
Ind. Engr. 331. Time and Motion Studies and Safety En- gineering	3	.....
Ind. Engr. 316. Personnel Administration	1	.....
Ind. Engr. 332. Management-Production Planning and Control	3	.....
Eng. 233. Technical Writing	3	.....
M. E. 313. Machine Shop	1	.....
M. E. 316. Welding Practice	1	.....
B. A. 436. Cost Accounting	3	.....
B. A. 334-5. Business Law	3	3
M. E. 334. Elementary Thermodynamics	3	.....
M. E. 335. Heat Engines	3	3
C. E. 231. Plane Surveying	3	.....
	19	19

Senior Year

M. E. 312. Foundry Practice	1	.....
M. E. 315. Heat Treating of Steel	1	.....
E. E. 438-9. Elements of Electrical Engineering	3	3
E. E. 412-3. Electrical Engineering Laboratory	1	1
C. E. 333. Applied Mechanics—Strength of Materials	3	.....
Ind. Engr. 431. Purchasing and Industrial Engineering Problems	3	3
Ind. Engr. 432-3. Industrial Plant Design	3	3
B. A. 330. Principles of Finance	3	.....
Ind. Engr. 423. Relation of Engineer to Society and Study of Published Statistics	2	.....
**Elective	2	3
	15	17
*Govt. 131-2. American Government, National and State	3	3

*To comply with the laws of the State of Texas the applicant for a degree under this curriculum must complete six semester hours in Federal and State Constitutions, except that three semester hours "in a course in Military Science as provided in an approved senior R. O. T. C. unit" may be substituted for three semester hours of government.

**Must be in one branch of engineering.

Advanced Military Science may be substituted for Speech 337 and B. A. 330 in accordance with catalogue regulations.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

For Freshman Year See Page 96

Sophomore Year

	Semester Hours	
	Sem. I	Sem. II
Chem. 220. Qualitative Analysis	2	.....
Math. 251. Calculus	5	.....
Math. 233. Calculus Applications .....	.....	3
Phys. 235-6. Engineering Physics	3	3
Phys. 215-6. Physical Measurements	1	1
Engr. Dwg. 221. Machine Drawing	2	.....
C. E. 331. Applied Mechanics—Statics .....	.....	3
Eco. 231-2. Principles of Economics	3	3
M. E. 221. Engineering Problems	2	.....
M. E. 241. Mechanisms .....	.....	4
M. S. 211-2, Military Science; P. E. 213-4, Physical Education; or Music 211-2, Band	1	1
	<hr/> 19	<hr/> 18

Junior Year

Eng. 233. Technical Writing .....	.....	3
C. E. 332. Applied Mechanics—Kinematics and Kinetics	3	.....
C. E. 333. Applied Mechanics—Strength of Materials .....	.....	3
C. E. 310. Testing Laboratory .....	.....	1
M. E. 311. Pattern Shop	1	.....
M. E. 312. Foundry	1	.....
M. E. 313-4. Machine Shop	1	1
M. E. 315. Heat Treating of Steel .....	.....	1
M. E. 316. Welding Practice .....	.....	1
M. E. 330-1. Thermodynamics	3	3
M. E. 322. Dynamics of Machinery .....	.....	2
M. E. 341. Steam Power Plant Engineering	4	.....
M. E. 332. Mechanical Measurements and Thermodynamics Laboratory	3	.....
M. E. 337. Metallurgy	3	.....
M. E. 434. Industrial Engineering .....	.....	3
	<hr/> 19	<hr/> 18

Senior Year

E. E. 438-9. Elements of Electrical Engineering	3	3
E. E. 412-3. Electrical Engineering Laboratory	1	1
M. E. 436-7. Machine Design	3	3
M. E. 431. Power Plant Laboratory	3	.....
**Electives	7	9
	<hr/> 17	<hr/> 16
*Govt. 131-2. American Government, National and State	3	3

*To comply with the laws of the State of Texas the applicant for a degree under this curriculum must complete six semester hours in Federal and State Constitutions, except that three semester hours "in a course in Military Science as provided in an approved senior R. O. T. C. unit" may be substituted for three semester hours of government.

**Electives may be chosen, under supervision of the department, from the following subjects:
Group A. C. E. 420 and 410 or C. E. 231. C. E. 421 or Engineering Seminar 411-2. M. E. 423-4, 432, 433, 439.

Group B. Speech 337, B. A. 234-5 or 334-5.

Not more than six semester hours may be selected from Group B. Advanced Military Science may be substituted for six hours of Group B electives in accordance with catalogue regulations.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE IN PETROLEUM ENGINEERING

Geology Option

For Freshman Year See Page 96

Sophomore Year

	Semester Hours	
	Sem. I	Sem. II
Phys. 235-6. Engineering Physics	3	3
Phys. 215-6. Physical Measurements	1	1
Engr. Dwg. 222. Descriptive Geometry	2	
Math. 251. Calculus	5	
Math. 233. Calculus Applications		3
Chem. 220. Qualitative Analysis		2
C. E. 331. Applied Mechanics—Statics		3
Eng. 233. Technical Writing	3	
Geol. 131-2 General Geology	3	3
Geol. 231. Mineralogy	3	
M. S. 211-2, Military Science; P. E. 213-4, Physical Education; or Music 211-2, Band	1	1
	<hr/> 19	<hr/> 18

Summer

Geol. 363. Field Geology	6	
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Junior Year

C. E. 332. Applied Mechanics—Kinematics and Kinetics	3	
C. E. 333. Applied Mechanics—Strength of Materials		3
Eco. 231-2. Principles of Economics	3	3
Geol. 333. Petrology: Optical Mineralogy	3	
Geol. 334. Petrology: Descriptive		3
Geol. 335-6. General Paleontology	3	3
C. E. 231-2. Plane Surveying	3	3
C. E. 310. Testing Laboratory		1
	<hr/> 15	<hr/> 16

Senior Year

Geol. 431-2. Advanced General Geology	3	3
Geol. 433. Structural Geology	3	
Geol. 434. Petroleum Geology		3
Geol. 435. Index Fossils	3	
Geol. 436. Micropaleontology		3
Geol. 411-2. Geology of Texas	1	1
Geol. 413-4. Seminar	1	1
Speech 337. Project Speaking		3
C. E. 334. Surveying	3	
Elective		3
	<hr/> 14	<hr/> 17

*Govt. 131-2. American Government, National and State	3	3
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*To comply with the laws of the State of Texas the applicant for a degree under this curriculum must complete six semester hours in Federal and State Constitutions, except that three semester hours "In a course in Military Science as provided in an approved senior R. O. T. C. unit" may be substituted for three semester hours of government.

Advanced Military Science may be substituted for Speech 337 and used as elective in accordance with catalogue regulations.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE IN PETROLEUM ENGINEERING

Geophysics Option

For Freshman Year See Page 96

Sophomore Year

	Semester Hours	
	Sem. I	Sem. II
Phys. 235-6. Engineering Physics	3	3
Phys. 215-6. Physical Measurements	1	1
Math. 251. Calculus	5	.....
Math. 233. Calculus Applications .....	.....	3
Eng. 233. Technical Writing	3	.....
Geol. 131-2. General Geology	3	3
Geol. 231. Mineralogy .....	.....	3
Engr. Dwg. 222. Descriptive Geometry	2	.....
E. E. 230. Principles of Electrical Engineering .....	.....	3
M. S. 211-2, Military Science; P. E. 213-4, Physical Education; or Music 211-2, Band	1	1
	18	17

Summer

Geol. 363. Field Geology	6
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Junior Year

E. E. 331-2. Principles of Electrical Engineering	3	3
E. E. 321-2. Electrical Engineering Laboratory	2	2
Geol. 333. Petrology: Optical Mineralogy	3	.....
Geol. 334. Petrology: Descriptive .....	.....	3
Geol. 335-6. General Paleontology	3	3
Phys. 333-4. Electricity and Magnetism	3	3
Geol. 411-2. Geology of Texas	1	1
	15	15

Senior Year

**E. E. 431-2. Alternating Current Machinery	3	3
***E. E. 433. Transmission	3	.....
E. E. 434. Communication .....	.....	3
Geol. 431-2. Advanced General Geology	3	3
Geol. 433. Structural Geology	3	.....
Geol. 434. Petroleum Geology .....	.....	3
Geol. 435. Index Fossils	3	.....
Geol. 436. Micropaleontology .....	.....	3
Geol. 413-4. Seminar	1	1
Geol. 427-8. Theoretical Geophysics	2	2
	18	18

*Govt. 131-2. American Government, National and State	3	3
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*To comply with the laws of the State of Texas the applicant for a degree under this curriculum must complete six semester hours in Federal and State Constitutions, except that three semester hours "in a course in Military Science as provided in an approved senior R. O. T. C. unit" may be substituted for three semester hours of government.

**E. E. 437—Radio Engineering, may be elected in place of E. E. 432.

***E. E. 436—Electron Tubes, may be elected in place of E. E. 433.

Advanced Military Science may be substituted for E. E. 432 in accordance with catalogue regulations.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE IN PETROLEUM ENGINEERING

Production Option

For Freshman Year See Page 96

Semester Hours
Sem. I Sem. II

Sophomore Year Same as Sophomore Year of Geology Option

Summer

Geol. 363. Field Geology	6	—
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Junior Year

C. E. 332. Applied Mechanics—Kinematics and Kinetics	3	—
C. E. 333. Applied Mechanics—Strength of Materials	—	3
M. E. 334. Elementary Thermodynamics	3	—
M. E. 335. Heat Engines	—	3
M. E. 317-8. Heat Engineering Laboratory	1	1
Geol. 333-4. Petrology	—	—
or	—	—
Geol. 335-6. General Paleontology	3	3
C. E. 231-2. Plane Surveying	3	3
C. E. 310. Testing Laboratory	—	1
Petr. Engr. 331. Drilling and Development	3	—
Petr. Engr. 333. Production Engineering	—	3
Speech 337. Project Speaking	3	—
	19	17

Senior Year

Petr. Engr. 421. Oil Field Testing Methods	2	—
Petr. Engr. 432. Advanced Production Engineering	3	—
Petr. Engr. 433. Special Problems in Petroleum Production	—	3
Petr. Engr. 434. Natural Gas Engineering	—	3
Petr. Engr. 411. Seminar	1	—
C. E. 420. Hydraulics	2	—
C. E. 410. Hydraulics Laboratory	—	1
Geol. 433. Structural Geology	3	—
Geol. 434. Petroleum Geology	—	3
Geol. 431-2. Advanced General Geology	3	3
Geol. 411-2. Geology of Texas	1	1
Eco. 231-2. Principles of Economics	3	3
	18	17
*Govt. 131-2. American Government, National and State	3	3

*To comply with the laws of the State of Texas the applicant for a degree under this curriculum must complete six semester hours in Federal and State Constitutions, except that three semester hours "in a course in Military Science as provided in an approved senior R. O. T. C. unit" may be substituted for three semester hours of government.

Advanced Military Science may be substituted for Speech 337 in accordance with catalogue regulations.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE IN TEXTILE ENGINEERING

For Freshman Year See Page 96

Sophomore Year

	Semester Hours	
	Sem. I	Sem. II
Phys. 235-6. Engineering Physics	3	3
Phys. 215-6. Physical Measurements	1	1
Agron. 421. Cotton and Other Fiber Crops .....	.....	2
Math. 251. Calculus	5	.....
Engr. Dwg. 221. Machine Drawing	2	.....
Chem. 322. Power Plant Chemistry .....	.....	2
Eco. 231-2. Principles of Economics	3	3
M. E. 221. Engineering Problems	2	.....
C. E. 331. Applied Mechanics—Statics .....	.....	3
T. E. 234. Cotton Classing and Marketing	3	.....
T. E. 235. Textile Fibers and Yarn Preparation .....	.....	3
M. S. 211-2, Military Science; P. E. 213-4, Physical Education; or Music 211-2, Band	1	1
	<hr/> 20	<hr/> 18

Junior Year

Chem. 343-4. Organic Chemistry	4	4
C. E. 332. Applied Mechanics—Kinematics and Kinetics	3	.....
M. E. 317-8. Heat Engineering Laboratory	1	1
M. E. 333. Kinematics of Machinery .....	.....	3
M. E. 334. Elementary Thermodynamics	3	.....
M. E. 335. Heat Engines .....	.....	3
T. E. 331-2. Yarn Manufacture	3	3
T. E. 333-4. Bleaching and Dyeing	3	3
T. E. 335-6. Fabric Design and Weaving	3	3
	<hr/> 20	<hr/> 20

Senior Year

E. E. 412-3. Electrical Engineering Laboratory	1	1
E. E. 426-7. Elements of Electrical Engineering	2	2
E. S. 411-2. Engineering Seminar	1	1
T. E. 424. Mill Organization	2	.....
T. E. 437. Cost Engineering .....	.....	3
T. E. 421-2. Fabric Analysis, Weaving and Jacquard Design	2	2
T. E. 433-4. Dyeing and Finishing	3	3
T. E. 435-6. Advanced Yarn Manufacture	3	3
M. E. 313. Machine Shop	1	.....
M. E. 316. Welding Practice .....	.....	1
Eng. 233. Technical Writing	3
	<hr/> 18	<hr/> 16

*Govt. 131-2. American Government, National and State	3	3
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*To comply with the laws of the State of Texas the applicant for a degree under this curriculum must complete six semester hours in Federal and State Constitutions, except that three semester hours "in a course in Military Science as provided in an approved senior R. O. T. C. unit" may be substituted for three semester hours of government.

Advanced Military Science may be substituted for Eco. 232 and English 233 in accordance with catalogue regulations.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE IN TEXTILE ENGINEERING

Chemistry and Dyeing Option

For Freshman Year See Page 96

Sophomore Year

	Semester Hours	
	Sem. I	Sem. II
Phys. 235-6. Engineering Physics	3	3
Phys. 215-6. Physical Measurements	1	1
Math. 251. Calculus	5	.....
Chem. 220. Qualitative Analysis	2	.....
Chem. 242. Inorganic Chemistry .....	.....	4
Chem. 331-2. Quantitative Analysis	3	3
C. E. 331. Applied Mechanics—Statics .....	.....	3
M. E. 221. Engineering Problems	2	.....
Agron. 421. Cotton and Other Fiber Crops .....	.....	2
T. E. 234. Cotton Classing and Marketing	3	.....
T. E. 235. Textile Fibers and Yarn Preparation .....	.....	3
M. S. 211-2. Military Science; P. E. 213-4. Physical Education; or Music 211-2, Band	1	1
	20	20

Junior Year

C. E. 332. Applied Mechanics—Kinematics and Kinetics	3	.....
Chem. 343-4. Organic Chemistry	4	4
M. E. 333. Kinematics of Machinery .....	.....	3
Eco. 231-2. Principles of Economics	3	3
T. E. 331-2. Yarn Manufacture	3	3
T. E. 333-4. Bleaching and Dyeing	3	3
T. E. 335-6. Fabric Design and Weaving	3	3
	19	19

Senior Year

Eng. 233. Technical Writing	3	.....
Chem. 443. Industrial Chemistry	4	.....
Chem. 434. Organic Preparations .....	.....	3
E. S. 411-2. Engineering Seminar	1	1
T. E. 424. Mill Organization	2	.....
T. E. 437. Cost Engineering .....	.....	3
T. E. 421-2. Fabric Analysis, Weaving and Jacquard Design	2	2
T. E. 423. Advanced Dyeing and Color Matching .....	.....	2
T. E. 433-4. Dyeing and Finishing	3	3
T. E. 435-6. Advanced Yarn Manufacture	3	3
M. E. 313. Machine Shop	1	.....
M. E. 316. Welding Practice	1
	19	18

*Govt. 131-2. American Government, National and State

3	3
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*To comply with the laws of the State of Texas the applicant for a degree under this curriculum must complete six semester hours in Federal and State Constitutions, except that three semester hours "in a course in Military Science as provided in an approved senior R. O. T. C. unit" may be substituted for three semester hours of government.

Advanced Military Science may be substituted for Eco. 232 and English 233 in accordance with catalogue regulations.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE IN TEXTILE ENGINEERING

Weaving and Design Option

For Freshman Year See Page 96

Sophomore Year

	Semester Hours	
	Sem. I	Sem. II
Eco. 231-2. Principles of Economics	3	3
Phys. 235-6. Engineering Physics	3	3
Phys. 215-6. Physical Measurements	1	1
Math. 251. Calculus	5	.....
Chem. 322. Power Plant Chemistry .....	.....	2
T. E. 234. Cotton Classing and Marketing	3	.....
T. E. 235. Textile Fibers and Yarn Preparation .....	.....	3
Arch. 121-2. Freehand Drawing	2	2
Arch. 123-4. Elements of Composition	2	2
C. E. 331. Applied Mechanics—Statics .....	.....	3
M. S. 211-2, Military Science; P. E. 213-4, Physical Education; or Music 211-2, Band	1	1
	20	20

Junior Year

Agron. 421. Cotton and Other Fiber Crops .....	.....	2
C. E. 332. Applied Mechanics—Kinematics and Kinetics	3	.....
Chem. 343-4. Organic Chemistry	4	4
Arch. 437-8. Principles of Drawing and Painting, and Theory of Design	3	3
T. E. 335-6. Fabric Design and Weaving	3	3
T. E. 331-2. Yarn Manufacture	3	3
T. E. 333-4. Bleaching and Dyeing	3	3
	19	18

Senior Year

Arch. 426-7. Oil Painting or Advanced Water Color	2	2
Eng. 233. Technical Writing	3	.....
E. S. 411-2. Engineering Seminar	1	1
T. E. 424. Mill Organization	2	.....
T. E. 437. Cost Engineering .....	.....	3
T. E. 421-2. Fabric Analysis, Weaving and Jacquard Design	2	2
T. E. 433-4. Dyeing and Finishing	3	3
T. E. 435-6. Advanced Yarn Manufacture	3	3
M. E. 313. Machine Shop	1	.....
M. E. 316. Welding Practice .....	.....	1
	17	15
*Govt. 131-2. American Government, National and State	3	3

*To comply with the laws of the State of Texas the applicant for a degree under this curriculum must complete six semester hours in Federal and State Constitutions, except that three semester hours "in a course in Military Science as provided in an approved senior R. O. T. C. unit" may be substituted for three semester hours of government.

Advanced Military Science may be substituted for Eco. 232 and English 233 in accordance with catalogue regulations.

CURRICULUM FOR THE DEGREE OF BACHELOR OF ARCHITECTURE

Design Option or Construction Option

Freshman Year

	Semester Hours	
	Sem. I	Sem. II
Eng. 131-2. Freshman Composition	3	3
Math. 121-2. Algebra	2	2
Math. 131. Trigonometry	3	.....
Math. 132. Analytics .....	.....	3
Arch. 121-2. Freehand Drawing	2	2
Arch. 125. Shades and Shadows	2	.....
Arch. 223. Perspective .....	.....	2
Arch. 141-2. Elements of Architecture	4	4
Engr. Or. 111. Engineering Orientation	1	.....
M. S. 111-2, Military Science; P. E. 113-4, Physical Education; or Music 111-2, Band	1	1
	18	17

Sophomore Year

Arch. 231-2. Architectural Design, Grade I	3	3
Arch. 233. History of Ancient and Medieval Architecture	3	.....
Arch. 234. History of Renaissance Architecture .....	.....	3
M. S. 211-2, Military Science; P. E. 213-4, Physical Education; or Music 211-2, Band	1	1

Design Option

Eng. 233. Technical Writing .....	.....	3
A foreign language. (French or Spanish)	3	3
Physics 131-2. General Physics	3	3
C. E. 231. Plane Surveying	3	.....
	16	16

Construction Option

Math. 251. Calculus	5	.....
Math. 233. Calculus Applications .....	.....	3
Phys. 235-6. Engineering Physics	3	3
Phys. 215-6. Physical Measurements	1	1
C. E. 331. Applied Mechanics—Statics .....	.....	3
	16	17

Junior Year

Arch. 333-4. Building Construction	3	3
Arch. 361-2. Architectural Design, Grade II	6	6
Speech 337. Project Speaking	3	.....
E. E. 335. Wiring and Illumination .....	.....	3

Design Option

The foreign language begun in the sophomore year	3	3
or		
Eng. 231-2. Introduction to Literature .....	.....	.....
Arch. 326. Constructive Anatomy	2	.....
Arch. 327. Life Drawing, I .....	.....	2
Arch. 426-7. Oil Painting or Advanced Water Color	2	2
	19	19

CURRICULUM FOR THE DEGREE OF BACHELOR OF ARCHITECTURE

Design Option or Construction Option (Continued)

Construction Option

C. E. 320. Structures	2	.....
C. E. 330. Structures		3
C. E. 332. Applied Mechanics—Kinematics and Kinetics	3	
C. E. 333. Applied Mechanics—Strength of Materials		3
	17	18

Senior Year

Arch. 435-6. Advanced Architectural Construction	3	3
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Design Option

Arch. 321. History of Early Civilization and Art	2
Arch. 324. History of Sculpture		2
C. E. 337-8. Structural Mechanics	3	3
Arch. 481-2. Architectural Design, Grade III	8	8
	16	16

Construction Option

M. E. 334. Elementary Thermodynamics	3	.....
C. E. 431-2. Reinforced Concrete	3	3
Eng. 233. Technical Writing	3	.....
C. E. 231. Surveying	3	.....
Arch. 431-2. Interior Architectural Design	3	3
Approved Electives		8
	18	17

Fifth Year

Arch. 422. Building Materials	2	.....
Arch. 425. History of American and Modern Architecture		2
Arch. 420. Professional Practice		2
Eco. 235. Principles of Economics		3

Design Option

Arch. 437-8. Principles of Drawing and Painting, and Theory of Design	3	3
Arch. 320. History of Ornament and Furniture	2	.....
Arch. 431-2. Interior Architectural Design	3	3
Arch. 423-4. Life Drawing, II	2	2
Arch. 3216-17. Clay Modeling	2	2
Arch. 428-9. History of Painting	2	2
	16	19

Construction Option

M. E. 433. Heating and Ventilation	3	.....
M. E. 439. Air Conditioning		3
C. E. 433. Structures	3	.....
C. E. 434. Structures		3
C. E. 424-5. Materials	2	2
Approved Electives		6

	16	15
*Govt. 131-2. American Government, National and State	3	3

*To comply with the laws of the State of Texas the applicant for a degree under this curriculum must complete six semester hours in Federal and State Constitutions, except that three semester hours "in a course in Military Science as provided in an approved senior R. O. T. C. unit" may be substituted for three semester hours of government.

Advanced Military Science may be substituted for French 232, Spanish 232, or English 232 in design option and for six semester hours of approved electives in construction option, in accordance with catalogue regulations.

CURRICULUM FOR THE DEGREE OF BACHELOR OF COMMERCIAL ART

Freshman Year

Eng. 131-2. Freshman Composition	3	3
Math. 121. Algebra	2	
Math. 131. Trigonometry		3
Engr. Dwg. 134-5. Graphic Arts	3	3
Arch. 121-2. Freehand Drawing	2	2
Arch. 123-4. Elements of Composition	2	2
Arch. 125. Shades and Shadows	2	
Arch. 133. Commercial Lettering		3
Engr. Or. 111. Engineering Orientation	1	
Physical Education	1	1

Sophomore Year

	16	17
Eng. 233. Technical Writing	3	
Speech 131. Fundamentals of Speech		3
A foreign language (French, German, or Spanish)	3	3
Arch. 2216. Pencil Rendering and Sketching	2	
Arch. 223. Perspective		2
Arch. 233. History of Ancient and Medieval Architecture	3	
Arch. 234. History of Renaissance Architecture		3
Arch. 141-2. Elements of Architecture	4	4
Physical Education	1	1

Junior Year

	16	16
The foreign language begun in the sophomore year	3	3
Psy. 230. Introduction to Psychology	3	
Psy. 338. Business Psychology		3
Arch. 2217. Pen and Ink Rendering		2
Arch. 320. History of Ornament and Furniture	2	
Arch. 321. History of Early Civilization and Art	2	
Arch. 3216-17. Clay Modeling	2	2
Arch. 324. History of Sculpture		2
Arch. 326. Constructive Anatomy	2	
Arch. 327. Life Drawing, I		2
Arch. 3210-11. Commercial Illustration, I	2	2

Senior Year

	16	16
Eng. 231-2. Introduction to Literature	3	3
Arch. 331-2. Commercial Design, I	3	3
Arch. 423-4. Life Drawing, II	2	2
Arch. 437-8. Principles of Drawing and Painting, and Theory of Design	3	3
Ag. Eco. 235. Fundamentals of Economics		3
Approved Electives	6	3

Fifth Year

	17	17
Journ. 435-6. Advertising	3	3
Arch. 420. Professional Practice	2	
Arch. 426-7. Oil Painting or Advanced Water Color	2	2
Arch. 428-9. History of Painting	2	2
Arch. 4210-11. Decorative Figure Drawing	2	2
Arch. 433-4. Commercial Design, II	3	3
Arch. 4212-13. Commercial Illustration, II	2	2
Approved Elective		3

	16	17
*Govt. 131-2. American Government, National and State	3	3

*To comply with the laws of the State of Texas the applicant for a degree under this curriculum must complete six semester hours in Federal and State Constitutions.

DEPARTMENT OF ARCHITECTURE AND ALLIED ARTS

PROFESSOR KLEINSCHMIDT. ASSOCIATE PROFESSOR
BRADSHAW. ASSISTANT PROFESSOR LOCKARD.
INSTRUCTORS HOUGHTON, WILLIAMS

Curricula leading to three degrees are offered by the Department of Architecture and Allied Arts. A five-year curriculum leads to the degree of Bachelor of Architecture under which the student may select either the design option or construction option. A five-year curriculum is also offered leading to the degree of Bachelor of Commercial Art. The degree of Bachelor of Arts may be conferred upon completion of the first four years of the prescribed five-year curriculum in Commercial Art.

Although architecture is an old profession, it is one full of vitality. Its manifestations are forever changing to fit the needs of new standards of living, new social and economic life, and new science. The training of an architect is no longer a simple vocational problem. Painting, sculpture, and the decorative arts and crafts have been nurtured by architecture, the mother art, and the student must have cognizance of all. He finds the fundamentals of well-planned, well-built, and beautiful architecture in history and applies these principles toward the solution of modern problems.

Commercial art, or professional art, is now recognized as a legitimate field of endeavor which is expanding rapidly. Pictures of all kinds are the concern of the student of commercial art.

The curriculum for Architecture, Design Option, gives the student a thorough ground-work in the fundamentals of the profession and teaches him how to use that knowledge as a creator. It is a course for one who has a talent for drawing and an imaginative mind. The student is taught to master the technique of the draftsman's instruments, the pencil and the brush. A study of architectural history gives him the rules of planning. He learns good principles of construction and the relative values of building materials. His ideas of beauty are gained from a study of painting, sculpture, color and ornament. This course is an introduction to the practice of architecture, yet it is detailed enough to prepare one to enter the profession as a draftsman. The background acquired through this course is essential to those who seek leadership in the profession.

The curriculum for Architecture, Construction Option, is the same as that for the design option during the first year. Following this the emphasis is placed upon subjects relating to engineering science. This appeals to the student who has talent for drawing, mathematics, and mechanics. He is taught the elements of construction and planning in the laboratory and lecture room. The draftsman's instruments are constantly in his hands. Advanced study of the design of structural members of steel and concrete requires a knowledge of higher mathematics, applied mechanics, and the properties of building materials. He is given a liberal foundation in aesthetics throughout the lectures in elements and history. The course prepares him to enter any one of the professional branches. He may work toward any of the following phases of building construction: superintendence, general contracting, cost estimating, or structural design.

The curriculum in Commercial Art is a vehicle for the student who desires to go into professions demanding a background of drawing, painting, and art principles. The emphasis in the course is upon extensive training, and study of theory, relating to such work. Courses in freehand drawing, lettering, composition, illustration, and design keep the drawing tools in the student's hands; and the techniques are studied with relation to their use in the printing processes. Commercial design concerns the use of new materials and new planning toward the creation of beautiful and utilitarian objects for industry and the home. History of architecture, art, ornament, and furniture are included to widen the background from which the designer may draw inspiration. The course is meant as preparatory work and hence

is rich in fundamentals and practice. It leads the way into countless allied arts professions.

All courses offered by the department are open to both men and women students. Those seeking the profession of teaching art in elementary or high schools should confer with the head of the department in regard to the election of required courses in education.

The Department of Architecture has an excellent library of 2000 volumes and a collection of 3000 photographs relating to the work. Lecture courses are illustrated with lantern slides. The department sponsors the Texas Technological College Art Institute, the function of which is to bring high-quality lectures and traveling exhibitions of art to students and people of the community. The Gargoyle Club, open to students in the department, is an educational and social organization whose aim is to intensify interest in the college work and to broaden the cultural background. The department is affiliated with the American Federation of Arts, the College Art Association, the Museum of Modern Art and is reinforced with valuable teaching equipment from the Carnegie Foundation.

Work in various architectural design courses may be carried on simultaneously. The normal time required to complete the design courses is three years. Advancement is based upon design points earned. For graduation, in addition to a passing grade in each semester's work, the student must earn 72 points in grade I, 144 points in grade II, and 192 points in grade III.

121-2. Freehand Drawing. Cr. 2, (0-6). Each I and II.

Medium—charcoal. Instruction by personal criticism. Basic work for entering students. From the more elementary work in line drawing, the problems advance into full light and shade. Studies from fragments of antique architectural ornament.

123-4. Elements of Composition. Cr. 2, (0-6). I and II.

Occasional lectures. Theory of space design; underlying principles of line and area composition. Problems under individual criticism.

125. Shades and Shadows. Cr. 2, (0-6). I, II.

Exercises in conventional shades and shadows of common geometrical solids, solids of revolution, and simple architectural members.

133. Commercial Lettering. Cr. 3, (0-9). I, II.

Basic for the study of various styles of pen and brush lettering. The use of different alphabets and letter forms in poster and card design. Occasional conjunctive problems with Arch 124.

141-2. Elements of Architecture. Cr. 4, (1-9). I and II.

Architectural drawing, lettering, and wash rendering in India ink and monotone; elements of architectural design, walls, doors, windows, colonnades, arcades, mouldings, and vaults.

223. Perspective. Cr. 2, (0-6). I, II.

Prerequisite: Engr. Dwg. 134 or Arch. 141. Theory of perspective as applied to common geometrical solids and to problems from architectural practice.

2216. Pencil Rendering and Sketching. Cr. 2, (0-6). I.

Prerequisite: Arch. 122. Drawing of architectural ornaments, architectural fragments and pencil sketches from life and nature.

2217. Pen and Ink Rendering. Cr. 2, (0-6). II.

Prerequisite: Arch. 2216. Pen and ink technique, studies from plaster casts, still life, and nature.

231-2 Architectural Design. Grade I. Cr. 3, (0-9). I and II.

Prerequisite: Arch. 141-2. Long and short problems under individual criticism dealing in general with the elements of plan and elevation. Sketch problems dealing with composition.

233. History of Ancient and Mediaeval Architecture. Cr. 3. I.

Technical history of architecture from the dawn of civilization to the end of the Gothic period. The styles are illustrated by means of lectures and slides, photographs, and collateral reading. Library research.

234. History of Renaissance Architecture. Cr. 3. II.

Technical history of architecture of the Italian, French, Spanish, English, and German Renaissance. The styles are illustrated by means of lectures and slides, photographs, and collateral reading. Library research.

320. History of Ornament and Furniture. Cr. 2. I.
Prerequisite: Arch. 233-4. The study of the development of ornament and furniture from prehistoric through modern times. Illustration by means of lectures and slides, photographs. Library research.
321. History of Early Civilization and Arts. Cr. 2. I.
Prerequisite: Arch. 233-4. Illustrated lectures dealing with the origins of art and architecture in early civilizations. Three hours a week of library research in anthropology and archaeology as related to the origins of art and architecture.
324. History of Sculpture. Cr. 2. II.
Prerequisite: Arch. 321. Illustrated lectures on the development of sculpture from the Egyptian to the present day. Three hours of library research a week.
326. Constructive Anatomy. Cr. 2, (0-6). I, II.
Prerequisite: Arch. 121-2. Medium—charcoal and pencil. A thorough preparatory course to life drawing in the fundamentals of the proportion of the human figure.
327. Life Drawing I. Cr. 2, (0-6). I, II.
Prerequisite: Arch. 326. Drawing from the living model in various media. Instruction by personal criticism. Admission to courses in life drawing limited to those students who have satisfactorily completed the preceding courses in freehand drawing or their equivalent.
- 328-9. Poster Design and Lettering for Public School Teachers. S.
Cr. 2, (0-6).
Prerequisite: Junior standing. Formerly Arch. 134. A course for those who wish to teach integrated art in public schools.
- 3210-11. Commercial Illustration I. Cr. 2, (0-6). I and II.
Prerequisite: Arch. 124. Illustration as applied to advertising and commercial fields. Drawing and painting in various media for designated processes of reproduction. Analysis of advertising value of drawings and force of designs on subject matter. Problems in the design of booklets, posters, illustrations.
- 3216-17. Clay Modeling. Cr. 2, (0-6). I and II.
Prerequisite: Arch. 121-2. The making of clay models, firing and glazing pottery, plaster casts of simple decorative fragments, and anatomical forms; construction of relief maps.
- 331-2. Commercial Design I. Cr. 3, (0-9). I and II.
Prerequisite: Arch. 141-2 and 124. Specialized industrial design in a variety of materials; textiles, fixtures, furniture, and utensils; full-sized detail and color rendering.
- 333-4. Building Construction. Cr. 3, (1-6). I and II.
Formerly 3212-13 and 325. Prerequisite: Arch 232. Preparation of working drawings and specifications for suburban houses; drawing complete details for buildings, heating, plumbing, and structural problems.
- 335-6. History of Art. Cr. 3. S.
Prerequisite: Junior standing. A general survey of the history of Architecture, sculpture, painting, and the minor arts. Course consists of lectures illustrated by means of slides, photographs and facsimile reproductions from the Carnegie Collection and collateral reading. Library research. Open to all students except those majoring in Commercial Art and Architecture, Design Option.
- 337-8. Public School Art. Cr. 3, (1-6). S.
Prerequisite: Arch. 123-4; or Applied Arts 131-2; or junior standing. Formerly 237-8. A course in drawing, composition, and color for those who teach art in public schools, made to apply directly to classroom teaching.
- 361-2. Architectural Design, Grade II. Cr. 6, (0-18). I and II.
Prerequisite: Arch. 231-2. Long and short problems, under individual criticism, dealing with simple architectural composition. Sketch problems dealing with large architectural compositions or decorative detail.
420. Professional Practice. Cr. 2. I.
Prerequisite: Junior standing. Office organization, ethics, professional relations.
422. Building Materials and Construction. Cr. 2. I.
Prerequisite: Arch. 333-4. Introduction to the properties and uses of materials of construction. Occasional visits to buildings under construction.
- 423-4. Life Drawing II. Cr. 2, (0-6). I and II.
Prerequisite: Arch. 327. Continuation of Arch 327.
425. History of American and Modern Architecture. Cr. 2. I.
Prerequisite: Arch. 233-4. History of American Architecture from colonial times to present day. Modern movements in Architecture in Europe. Illustrated lectures. Library research.

426-7. Oil Painting or Advanced Water Color. Cr. 2, (0-6). I and II.
Prerequisite: Evidence of ability or junior standing. Principles of design related to various types of composition, in conjunction with direct study from the human model, still life, or landscape. Problems in oil or water color may take the form of book illustration, painting or mural decoration.

428-9. History of Painting. Cr. 2. I and II.
Prerequisite: Arch. 324. Illustrated lectures on the development of painting from the Egyptian period to the present modern day developments. Three hours of library research a week.

4210-11. Decorative Figure Drawing. Cr. 2, (0-6). I and II.
Prerequisite: Arch. 327. The drawing and painting of the draped or costumed figure against backgrounds with accessories planned to emphasize beauty and interest in color.

4212-13. Commercial Illustration II. Cr. 2, (0-6). I and II.
Prerequisite: Arch. 3210-11. A continuation of Arch. 3210-11 with problems in presentation and studio practice; specialization in illustration with completion of full scale work.

431-2. Interior Architectural Design. Cr. 3, (0-9). I and II.
Prerequisite: Registration in Arch. 361-2. Long and short problems, under individual criticism, dealing with designs of interiors of various types and styles of architecture.

433-4. Commercial Design II. Cr. 3, (0-9). I and II.
Prerequisite: Arch. 331-2. A continuation of Arch. 331-2 with the execution and supervision of the finished product.

435-6. Advanced Architectural Construction. Cr. 3, (1-6). I and II.
Prerequisite: Arch. 333-4. A continuation of Arch. 333-4 but as applied to office-building type construction with estimating and specification writing.

437-8. Principles of Drawing and Painting, and Theory of Design. I and II.
Cr. 3, (1-6).
Prerequisite: Arch. 2216 or 426-7. Aims to give an understanding and appreciation of the fundamental principles governing good drawing and painting throughout the ages. Lectures with laboratory work. Actual drawing and use of color.

439-10. Methods of Teaching Art Integrated for the Elementary School and the High School. Cr. 3, (1-6). S.
Prerequisite: Arch. 335-6, 337-8, Applied Arts 334, or senior standing. Problems on the methods of presenting the study of art to students of Elementary and High School levels.

481-2. Architectural Design, Grade III. Cr. 8, (0-24). I and II.
Prerequisite: Arch. 361-2. Long, short and sketch problems under personal criticism dealing with the more complex kinds of architectural compositions, particularly with subjects involving special character and a decorative and imaginative interest.

Engineering Seminar 411-2. Cr. 1. I and II.
(Credit for this course may be given as often as successfully repeated.) The investigation and study of engineering problems of special interest and value to the students taking the course. Work is of the nature of research. Note: May be taken only with permission of head of the department.

Courses in this department which may be taken for graduate credit are: Arch. 324, 333-4, 420, 423-4, 426-7, 433-4, and 439-10 if properly petitioned for in advance and provided an additional special problem is done in each course.

DEPARTMENT OF CHEMICAL ENGINEERING

PROFESSOR GOODWIN. ASSOCIATE PROFESSOR SCHNEIDER.
ASSISTANT PROFESSOR OBERG.

Chemical engineering is recognized today as a distinct branch of engineering. An industrial chemical process in reality consists of a series of unit processes, the proper sequence and coordination of which constitute an engineering science.

The Chemical Engineering curriculum is based upon the belief that a student should secure a thorough, fundamental training in both chemistry and engineering. Hence, the "practical" courses are largely omitted. Emphasis, insofar as possible, is placed on both class and laboratory work. In addition to the professional courses, the curriculum emphasizes the importance of a proper training in English, economics, and speech. It is the purpose of this course to train men so that they may be ready to develop into execu-

tives, superintendents, and managers of plants in the field of chemical industry. This curriculum leads to the degree of Bachelor of Science in Chemical Engineering.

The freshman year is the uniform one required of all Engineering students. The Chemical Engineering student is required to take forty hours of chemistry in addition to required courses listed below.

- 431-2. Principles of Chemical Engineering. Cr. 3. I and II.
Prerequisite: A course in the calculus and Chem. 441-2. Chem. 441-2 may be taken parallel. Flow of fluids; heat transfer; principles of basic unit operations of chemical engineering.
433. Stoichiometry. Cr. 3. II.
Prerequisite: Chem. 431. A problem course in industrial chemistry.
446. Advanced Chemical Engineering. Cr. 4, (3-3). II.
Prerequisite: Chem. 432 or simultaneous registration. The economics of chemical engineering and advanced problems on heat transfer and distillation. Special problems in the laboratory.
- 537-8B. Advanced Chemical Engineering. Cr. 3. I and II.
Prerequisite: Chem. 431-2. Emphasis placed on cost calculations in design and operation of basic processes such as distillation, filtration, heat transfer.

DEPARTMENT OF CIVIL ENGINEERING

PROFESSORS MURDOUGH, ADAMS. ASSOCIATE PROFESSORS
McREE, PARKHILL. ASSISTANT PROFESSOR *MIDDLETON
INSTRUCTORS DECKER, HARDING, **NOTHSTINE.

The curriculum of study outlined under the requirements for the degree of Bachelor of Science in Civil Engineering is designed to prepare the student to enter any of the following fields of endeavor.

1. Highway engineering—the economics, design, construction, maintenance, operation and methods of financing of highways.
2. Structural engineering—the design and construction of fixed structures and their foundations.
3. Hydraulic and sanitary engineering—the design and construction of dams, hydraulic power plants, water supply plants, and sewage disposal systems.
4. Surveying and geodesy—the measurement and platting of portions of the earth's surface and objects on it.

Besides the special fields indicated, the civil engineering curriculum is broad enough to permit a graduate to enter into many other of those fields which are open to the technically trained man. Aeronautical structural design may be cited for example.

The curriculum in civil engineering requires much work in English, economics, and the sciences. It affords a liberal education as well as a technical training.

- 231-2. Plane Surveying. Cr. 3, (2-3). I and II.
Prerequisite: Math. 131. The use of and adjustment of surveying instruments; plane surveys with transit and tape; profiles and cross sections; computations from field notes; the mathematics of curves as applied to railroads and highways, with field practice; earthworks, mass diagrams.
310. Testing Laboratory. Cr. 1, (0-3). II.
Prerequisite: Registration in C. E. 333 or consent of instructor. Standard tests and reports on steel, iron, and wood specimens; the physical properties of cement and concrete.
311. Highway Laboratory. Cr. 1, (0-3). II.
Prerequisite: C. E. 335. Standard tests of road building materials.
320. Structures. Cr. 2, (1-3). I.
Prerequisite: C. E. 331. Graphic statics, stresses in framed structures by graphical and analytical methods, design of wood roof truss.

* On leave, Long Session, 1940-41

**Temporary appointment, Long Session, 1940-41

- 323-4. Structural Mechanics. Cr. 2.** I and II.
Prerequisite: Math 131. Statics and strength of materials. For students of Architecture and others who desire a brief and general presentation of the material. (Not offered after 1941-42).
- 330. Structures. Cr. 3.** II.
Prerequisite: C. E. 320. Moment and shear curves; influence lines, stresses in framed structures; moving loads systems; beam design.
- 331. Applied Mechanics—Statics. Cr. 3.** I, II.
Prerequisite: Math. 251. Resultants of coplanar and non-coplanar force systems; equilibrium of force systems, friction, centroids, moments of inertia.
- 332. Applied Mechanics—Kinematics and Kinetics. Cr. 3.** I.
Prerequisite: C. E. 331. Motion of the particle and of rigid bodies; kinetics of translation, rotation, and plane motion; work, energy; impulse, momentum.
- 333. Applied Mechanics—Strength of Materials. Cr. 3.** II.
Prerequisite: C. E. 331. Stresses and strains in elastic bodies subjected to tension, compression and shear; bending and torsion; deflection of homogenous beams; resilience, column theory; combined stresses.
- 334. Surveying. Cr. 3, (1-6).** I, II.
Prerequisite: C. E. 231. Topographic mapping, stadia, and plane table; astronomical determination of azimuth, latitude, time.
- 335. Highway Engineering. Cr. 3.** I.
Prerequisite: C. E. 232. Fundamentals of highway location, design, construction, and maintenance. Traffic control and traffic regulation.
- 336. Highway Engineering. Cr. 3.** II.
Prerequisite: C. E. 335. History and development of transportation. Highway administration and finance.
- 410. Hydraulics Laboratory. Cr. 1, (0-3).** I, II.
Prerequisite: C. E. 420. Laboratory study of principles taught in C. E. 420.
- 420. Hydraulics. Cr. 2.** I.
Prerequisite: C. E. 331. Mechanics of water at rest and in motion.
- 421. Engineering Administration. Cr. 2.** II.
Prerequisite: Senior standing or approval of instructor. Contracts, specifications, and engineering relations. (Not offered after 1941-42.)
- 423. Economics of Highway Design. Cr. 2, (0-6).** II.
Prerequisite: C. E. 336. Economics of design applied to various highway projects and problems.
- 424-5. Materials. Cr. 2, (1-3).** I and II.
Prerequisite: C. E. 333. Class and laboratory. The properties and tests of materials of engineering.
- 426. Municipal Sanitation. Cr. 2.** I.
Prerequisite: Junior standing or consent of instructor. General principles of sanitation as applied to the community.
- 431. Reinforced Concrete. Cr. 3.** I.
Prerequisite: C. E. 333. Study and application of the theory of reinforced concrete design.
- 432. Reinforced Concrete. Cr. 3, (2-3).** II.
Prerequisite: C. E. 431. Continuation of C. E. 431.
- 433. Structures. Cr. 3, (0-9).** I.
Prerequisite: C. E. 330, 333. Design and detail of steel structures.
- 434. Structures. Cr. 3.** II.
Prerequisite: C. E. 330, 333, 431. Brief presentation of the theory of statically indeterminate structures.
- 435. Traffic Safety Education. Cr. 3.** S.
Prerequisite: State driver's license and senior standing. Safety education as applied to traffic regulation, traffic control, studies of methods of accident prevention, of automobile operation and automobile safety inspection. Emphasis placed on methods of presentation of material to high school students. May be counted as Education. (Education 4310).

436. Traffic Safety Education. Cr. 3.**S.**

Prerequisite: C. E. 435 (or C. E. 427) or consent of instructor. Safety education as applied in the study of highways and municipal traffic laws; in the methods of measuring ability to drive an automobile; in the study of the theory of the working mechanism of the automobile. Emphasis will be placed on methods of presenting material to high school students.

437. Water Supply and Treatment. Cr. 3, (2-3).**I.**

Prerequisite: C. E. 420. Consumption of water; quality; sources of supply—streams, lakes, impounding reservoirs, wells; design and construction of supply lines and distribution systems; water treatment plants.

438. Sewerage and Sewage Treatment. Cr. 3, (2-3).**I.**

Prerequisite: C. E. 420. Quantity of sewage—both storm and sanitary; design and construction of sewerage systems; sewage treatment and disposal.

Courses in this department which may be taken for graduate credit are: C. E. 435, 436, and the following in which additional work is required: C. E. 331, 332, 333, 410, 421, 423, 424, 425, 426, 431, 432, 433, 434, 437, 438. Each course taken will require a proper petition in advance of registration.

ENGINEERING ORIENTATION**111. Engineering Orientation. Cr. 1, (0-2).****I, II**

Relationship of student to college; development of correct study habits; study and preparation of time and expense budgets; lectures by heads of engineering departments; moving pictures showing phases of work in the various engineering departments. Required of all freshman Engineering students during their first semester. One hour of preparation a week required.

DEPARTMENT OF ELECTRICAL ENGINEERING

PROFESSORS BULLEN, HELWIG. ASSISTANT PROFESSOR GRAY.

Electrical engineering is one of the newest branches of engineering. The branch has developed so rapidly, and the applications of electricity have become so broad, that many subdivisions in electrical engineering now exist, offering opportunity and vocations in a great variety of engineering endeavors.

Graduates in electrical engineering find employment in such fields as manufacturing, public utilities, business, contracting, sales, research, teaching, design, construction, application, transportation, illumination, and communication.

Specialization in any of these fields usually follows graduation, and no attempt is made in the course of Electrical Engineering to concentrate the training of the student in any specialized field within this branch of engineering; rather the purpose of the course is to give a basic and comprehensive training in those fundamental principles of electricity required for a thorough understanding of electrical circuits, apparatus, and machinery. The student is also given thorough courses in the fundamentals of chemical, civil, and mechanical engineering in addition to the work in electrical engineering. The curriculum also includes a thorough course dealing with the principles of economics.

Special emphasis is placed upon the student's ability to reason logically, apply mathematics, and to speak and write clear, concise English. To prepare the student for his professional courses, the first two years are devoted largely to a study of mathematics, English, physics, chemistry, drawing, and shop practice.

In Electrical Engineering, theory is taught in the classroom, then applied in the laboratory by practical tests.

230. Principles of Electrical Engineering. Cr. 3.**II.**

Prerequisite: Phys. 235, Math. 251. Recitations and problems on the fundamental principles of the electric, magnetic, and dielectric circuits.

233. Elements of Radio. Cr. 3, (2-3).**I.**

A course in radio, open to any college student interested in studying the fundamentals and practice of radio. Current literature and The Radio Amateur's Handbook will be used as bases for study. This is not a required course and can be given only on the basis of sufficient registration.

- 321-2. Electrical Engineering Laboratory. Cr. 2, (0-6).** I and II.
Prerequisite: Registration in E. E. 331.
- 330. Principles of Electrical Engineering. Cr. 3.** II.
Prerequisite: Phys. 235, Math. 251. Recitations and problems on the fundamental principles of the electric, magnetic, and dielectric circuits. Not open to majors in Electrical Engineering.
- 331-2. Principles of Electrical Engineering. Cr. 3.** I and II.
Prerequisite: E. E. 230. Recitations and problems dealing with the fundamental theory, operating characteristics, and applications of direct current apparatus and machinery. Alternating current circuits studied in 332.
- 335. Wiring and Illumination. Cr. 3.** II.
Prerequisite: Math. 132, six semester hours of physics. Standard methods of wiring circuits; the general theory and modern methods of illumination. For Architectural Engineering students. Offered in alternate years, not offered in 1941-42.
- 336. Illumination. Cr. 3, (2-3).** II.
Prerequisite: Junior standing or consent of instructor. Fundamental principles and modern practice of illumination. Offered in alternate years, and only when demand justifies. Offered in 1941-42.
- 410. Current Electrical Engineering. Cr. 1.** I.
Prerequisite: Senior standing. Class discussion of current developments in the field of electrical engineering.
- 412-3. Electrical Engineering Laboratory. Cr. 1, (0-3).** I and II.
Prerequisite: Registration in E. E. 426-7 or 438-9. For Civil, Chemical, Industrial, Mechanical, and Textile Engineering students.
- 421-2. Electrical Engineering Laboratory. Cr. 2, (0-6).** I and II.
Prerequisite: Registration in E. E. 431, and E. E. 423.
- 423. Transformer Theory. Cr. 2.** I.
Formerly E. E. 423, Electrical Applications. Prerequisite: E. E. 332. Vector diagram solutions of transformer problems. Transformer connections in polyphase circuits.
- 425. Engineering Electronics. Cr. 2, (0-6).** II.
Prerequisite: E. E. 436 or consent of instructor. Engineering applications of electronic apparatus. Multiphase rectifiers, inverters, and representative industrial control circuits are set up and studied in the laboratory under operating conditions. Offered only when demand justifies.
- 426-7. Elements of Electrical Engineering. Cr. 2.** I and II.
Prerequisite: Phys. 235, Math. 251. Recitations and problems dealing with the elementary principles of direct and alternating current circuits and machinery. For Civil, Chemical, and Textile Engineering students.
- 431. Advanced Circuit Theory. Cr. 3.** I.
Formerly E. E. 431, Alternating Current Machinery. Prerequisite: E. E. 332. Study of non-sinusoidal wave forms in single phase and polyphase circuits. Problems in electrostatics. Introduction to transient phenomena.
- 432. Alternating Current Machinery. Cr. 3.** II.
Prerequisite: E. E. 431 or E. E. 423. Recitations and problems on the construction, theory of operation, and characteristics of the principal types of alternating current machinery.
- 433. Transmission. Cr. 3.** I.
Prerequisite: Registration in E. E. 431. Theory and problems involved in the transmission of electrical energy.
- 434. Communication. Cr. 3, (2-3).** II.
Prerequisite: E. E. 433. Fundamental principles of modern methods of communication.
- 435. Advanced Illumination. Cr. 3.**
Prerequisite: E. E. 335 or E. E. 336, or consent of instructor. Quantitative and qualitative considerations in interior lighting design. Mathematical treatment of illumination determinations. Economic considerations in light production. Offered only when demand justifies.
- 436. Electron Tubes. Cr. 3, (1-6).** I, II.
Prerequisite: Senior standing or consent of instructor. A study of electronic conduction, its capabilities and limitations. Theory and general applications of representative types of electron tubes. Tube circuits as applied in practice are set up and studied in the laboratory.
- 437. Radio Engineering. Cr. 3, (1-6).** II.
Prerequisite: Senior standing. Fundamentals of short wave radio communication. Offered only when demand justifies.

438-9. Elements of Electrical Engineering. Cr. 3.**I and II.**

Prerequisite: Phys. 235, Math. 251. Recitations and problems dealing with the principles of direct and alternating current circuits and machinery. For Industrial and Mechanical Engineering students.

Engineering Seminar 411-2. Cr. 1.**I and II.**

(Credit for this course may be given as often as successfully repeated.) The investigation and study of engineering problems of special interest and value to the students taking the course. Work is of the nature of research. Note: May be taken only with permission of head of the department.

Courses in this department which may be taken by Electrical Engineering majors for graduate credit are E. E. 336, 425, 435, 437, and Engineering Seminar 411-2. In addition E. E. 321-2, 330, 331-2, 336, 410, 421-2, 423, 425, 431, 432, 433, 434 and 436 may be taken for graduate credit by those students majoring in other departments.

DEPARTMENT OF INDUSTRIAL ENGINEERING AND ENGINEERING DRAWING

PROFESSOR ST. CLAIR. ASSOCIATE PROFESSORS STREET,
PERRYMAN. INSTRUCTORS ATKINSON, HEBBRANK.

The objective of this department is to provide instruction which will prepare the student to enter the industrial field as an industrial engineer; also to give all engineering students sound training in engineering drawing.

INDUSTRIAL ENGINEERING

Industrial Engineering is that branch of engineering which specializes in the location, design, construction, operation, and equipment of industrial plants. As a distinct branch of engineering, Industrial Engineering is among the later branches in which the leading colleges of the country offer a complete curriculum.

Courses given in Industrial Engineering are intended to give the student the basic training necessary to enable him to enter the industrial world with a broad foundation on which to specialize in any industry he may choose. Aside from the subjects relating directly to industrial engineering, it is required of the student that he secure a fundamental training in English, economics, and business administration. It is emphasized that the successful industrial engineer is much more than a purely technical man; he must be familiar with the various departments of industry and must recognize that he has an obligation to society in the field of social, political and other problems. The curriculum is planned so that the student obtains instruction in the basic branches of engineering, namely: mechanical, electrical, civil, and chemical—in these respective departments.

Special effort is made to furnish an insight into the field of industrial engineering by pictures of the machinery in industrial plants in actual operation; talks by men in industrial work; visits to industrial plants; and a discussion of papers on subjects relating to industrial engineering. Much time and effort are spent to acquaint the student with proper methods of attack on problems coming within the field of industrial engineering. He is taught to choose the most desirable location for a particular plant; determine the most desirable type of building; determine the most economical and practical arrangement of machinery and the most desirable type of machinery; and provide the most healthful working conditions, safety protection, and the most desirable personnel for a particular plant.

316. Personnel Administration. Cr. 1.**I.**

Prerequisite: Junior standing. Relation of capital and labor; relation of various departments of an industrial organization; relation of foreman, workmen, planning division.

331. Time and Motion Study and Safety Engineering. Cr. 3, (2-3).**II.**

Prerequisite: Junior standing or permission of department head. Methods of taking and analyzing time and motion studies; setting of standard times; calculation of wage incentives; analysis of studies of representative processes. Objects, origin, growth, agencies, organization of safety work in industry; accident causes and responsibility; safety codes; safety standards; safety guards; workmen's compensation.

332. Management—Production Planning and Control. Cr. 3. I.
Prerequisite: Junior standing. Basic principles of management. Standard methods of planning, scheduling, and controlling processes in modern industrial plants. Machine capacity analysis. Typical production problems.

421-2. Chemical Plant Design. Cr. 2, (0-6). I and II.
Prerequisite: Engr. Dwg. 133. Concurrent with or following Chem. 433-4. Chemical engineering equipment and its arrangement in various types of chemical plants. Drawings, calculations, and sketches used to solve assigned problems in design of machinery and apparatus selection and specification of equipment, and layout of chemical plants.

423. Relation of Engineer to Society and Study of Published Statistics. I.
Cr. 2, (1-3).
Prerequisite: Senior standing in Engineering. The young engineer's responsibility to society; those elements of society in which his training and position prepare him to participate. Available means from which to judge the trend of business as indicated by government reports, patents, and direct information from talks by industrialists.

431. Purchasing and Industrial Engineering Problems. Cr. 3, (2-3). II.
Prerequisite: Senior standing in Engineering. General methods of purchasing; specifications; quotations; relation of price and quality; source of supply. Problems involving operating efficiencies and minimum production costs. Maintenance of industrial plants and equipment. Special industrial engineering problems.

432-3. Industrial Plant Design. Cr. 3, (1-6). I and II.
Prerequisite: Senior standing in Industrial Engineering. In the form of a seminar. A complete industrial plant will be designed, covering location, capacity, material routing, type of buildings, machinery, shipping, sanitary and safety working conditions.

INDUSTRIAL EDUCATION

332. Teaching of Safety. Cr. 3. S.
Prerequisite: Junior standing or consent of department head. Methods of teaching safety as applied to the school, farm, and industry (not to be confused with Traffic Safety as taught in Civil Engineering Department). Sources and uses of safety literature, safety statistics, and safety devices.

ENGINEERING DRAWING

The courses offered in Engineering Drawing are fundamental for all courses in Engineering; also certain courses are given which are in the nature of service courses for the other departments and divisions.

These courses aim to prepare the student to use intelligently and skillfully the standard instruments and equipment of a draftsman and a designer. They, furthermore, aim to give him sufficient experience in the execution of drawings so that he can capably fill a position of draftsman upon graduation. Approved drawing equipment is required for all courses.

111. Engineering Drawing. Cr. 1, (0-3). S.
This course is for students who have completed only two (2) semester hours of Engineering Drawing in a Junior College, or other college where the course content has been equivalent to only two (2) semester hours of Engineering Drawing 132. Course content will cover those subjects ordinarily covered in E. D. 132 but which student has not covered in his previous work.

132-3. Engineering Drawing. Cr. 3, (1-6). Each I and II.
The essentials of drafting, including freehand sketching, the use of instruments, lettering, engineering geometry, orthographic projection, sections, intersections, developments, isometric and oblique drawing, and elementary working drawings.

134-5. Graphic Arts. Cr. 3, (1-6). I and II.
The use of instruments, lettering, architectural geometry, geometry in design, orthographic projection, sections, auxiliary views, the meaning of "scale," dimensioning, elementary application of graphic arts, intersections, developments, mechanical pictorial methods, working drawings, elementary architectural details.

221. Machine Drawing. Cr. 2, (0-6). I, II.
Prerequisite: Engr. Dwg. 133. or the equivalent. The application of the graphic language to engineering purposes: engineering sketching, machine fastening, conventional practice, machine details, detail and assembly drawings.

222. Descriptive Geometry. Cr. 2, (1-3). I, II.
Prerequisite: Engr. Dwg. 132 or the equivalent. Theory of engineering drawing which provides training in exact thinking. Point, line, and plane problems, tangent planes, intersections and developments, single and double curved surfaces, and warped surfaces; practical problems.

223. Agricultural Drawing. Cr. 2, (0-6).**II.**

Not open to freshmen. Orthographic projection, lettering, graphic charts, freehand sketching, and the reading of drawings related to agriculture and agricultural engineering.

321. Mechanical Drawing for Teachers. Cr. 2, (1-3).**I.**

Prerequisite: Engr. Dwg. 221. Aims and methods of teaching mechanical drawing in high schools stressed in lectures. Emphasis in laboratories on those points which are essential in making a neat mechanical drawing: dimensioning, lettering, sectional views, arrangements.

322. Advanced Machine Drawing. Cr. 2, (0-6).**I.**

Prerequisite: Engr. Dwg. 221 and 222. Training in making drawings of more complicated machines than is given in the freshman and sophomore years. Practice in making mechanical drawings of a quality expected of a draftsman by industrial concerns.

331. The Art of Lettering. Cr. 3, (1-6).**I.**

Prerequisite: Arch. 133. The art of lettering, including history and development of the alphabet; the technique of lettering and application in design. Outside work required. Offered when demand justifies.

Courses in this department which may be taken for graduate credit are: Ind. Engr. 421-2, 432-3, Engr. Dwg. 321 if properly petitioned for in advance and provided a special problem is done in each case.

DEPARTMENT OF MECHANICAL ENGINEERING

PROFESSOR GODEKE. ASSOCIATE PROFESSORS KIPP, HARDGRAVE.
ASSISTANT PROFESSOR VAIL. INSTRUCTORS *GREEN, **REGER.

Mechanical engineering is that branch of engineering which deals with the generation, transmission, and utilization of power; the design, construction, operation, and testing of machinery; and the management of shops and factories. The course of study in Mechanical Engineering is designed to prepare the student for entrance into these fields.

The curriculum includes, in addition to the fundamental sciences and the professional courses, a thorough training in the use of English and the foundation courses in economics. The student is given training in the mechanical arts to make him familiar with the use of hand and machine tools and with the methods employed in the machine shop, the pattern shop, the foundry, and the forging and heat treating departments. In the professional subjects by means of lectures, recitations, drawing room and laboratory work, typical mechanical engineering problems are presented and their practical solutions are indicated by the applications of the fundamental laws of physics, chemistry, and mathematics.

At present no specialized courses such as aeronautics except civilian aeronautics are given. The fundamental subjects, upon which such specialized courses are built, are given in such a way that a student may take the regular Mechanical Engineering course for three years and finish his specialized course in some other school giving such work. However, it would probably be much better to take the full Mechanical Engineering course and later take the specialized work as graduate work in some other school or in the industry.

Electives are offered in the senior year so as to give the student some leeway in the choice of subjects. These electives may be chosen only with the approval of the department.

Additional courses are offered in shop work for those who wish to specialize in this branch.

211. Sheet Metal Work. Cr. 1, (0-3).**II.**

Prerequisite: Registration in Engr. Dwg. 133. The fundamental operations of sheet metal work; developing patterns and laying out work; hand and machine operations; rolling, forming, crimping, wiring, seaming, grooving, cutting, turning, beading, riveting; soldering of brass, copper, tin, galvanized iron, and steel.

* On leave, Long Session, 1940-41.

**Temporary appointment, Long Session, 1940-41.

221. Engineering Problems. Cr. 2, (1-2).**I.**

Prerequisite: Registration in Phys. 235, Math. 122, 131. Application of physics and mathematics to the solution of elementary engineering problems. Methods of attack, analysis, and presentation of problems; slide rule, graphs and curve drawing.

241. Mechanisms. Cr. 4, (2-6).**II.**

Prerequisite: Engr. Dwg. 133, M. E. 221. Laws which govern the motion of various parts of machinery. Graphic analyses made of the various mechanisms, linkages, cams, gears, belts, and pulleys. For Mechanical Engineering students.

242. Vocational Flight Training. Cr. 4.**I, II.**

Prerequisite: Sophomore standing and permission. Ground school instruction covering history of aviation; theory of flight; aircraft; civil air regulations; practical air navigation; meteorology; parachutes; aircraft power plants; aircraft instruments; radio uses and terms. No credit towards an engineering degree.

311. Pattern Shop. Cr. 1, (0-3).**I.**

Prerequisite: Engr. Dwg. 133. Methods and principles of pattern making; various woods, tools, and machines used. Shrinkage, glue joints, core boxes. Various constructions such as one piece patterns, laminated, segmental, and stove construction, end and cross lap, dado, and rabbet joints. Individual instruction in the use of machine and hand tools.

312. Foundry Practice. Cr. 1, (0-3).**I.**

Prerequisite: Registration in M. E. 311. Foundry materials and products; bench, floor, and pit molding; mixing, melting, and pouring of ferrous and non-ferrous metals; small foundry layout; making and testing of dry sand cores; green sand testing; microscopic examination and physical testing of non-ferrous metals; various methods of cleaning castings.

313. Machine Shop. Cr. 1, (0-3).**I.**

Prerequisite: Engr. Dwg. 133. The various types of lathes, planers, millers, cutting tools, drills, reamers, abrasives, grinding machines, turret lathes, gear cutting machines, automatic screw machines, gauges, and inspection as applied to shop work. Bench work, such as chipping, filing, tapping, reaming, and fitting.

314. Machine Shop. Cr. 1, (0-3).**II.**

Prerequisite: M. E. 313. A continuation of M. E. 313. Standardization; routing of materials; die casting; press metals and presses; cutting fluids. Each student given advanced operations on machines, such as taper turning, internal and external threading, grinding, shaping, milling machine, calculations, and operations.

315. Heat Treating of Steel. Cr. 1, (0-3).**II.**

Laboratory work in the heat treating of plain carbon and alloy steels. Carburizing, cyaniding, nitriding, hardening, tempering, normalizing, annealing; various methods of forging, welding, and rolling steel and wrought iron; destruction tests and microscopic examination of heat-treated steels; heat-treating furnaces and materials used; thermit welding and its application.

316. Welding Practice. Cr. 1, (0-3).**II.**

Welding practice; electric arc, resistance, oxy-acetylene, and thermit welding, application of welding in construction of machines and structural steel; repairing of machine parts; care and operation of oxy-acetylene and arc welding equipment; butt, lap, and tee welding; welding methods; pipe cutting and welding; welding of various metals.

317-8. Heat Engineering Laboratory. Cr. 1, (0-3).**I and II.**

Prerequisite: Registration in M. E. 334-5. Mechanical measurements, heat transmissions, and heat transfer equipment. Tests of power plant equipment, internal combustion engines, pumps, blowers, and air equipment. For Chemical, Electrical, and Textile Engineering students.

322. Dynamics of Machinery. Cr. 2.**II.**

Prerequisite: M. E. 241, C. E. 332. Forces acting in various types of machines such as flywheels, governors, turbine rotors, revolving discs; also balancing of machines. Applied kinetics.

330-1. Thermodynamics. Cr. 3.**I and II.**

Prerequisite: Phys. 236, Math. 251, M. E. 221. Thermodynamic principles, governing the action of steam engines and turbines, internal combustion engines, air compressors, and refrigeration machines. Properties of air, steam, ammonia, gaseous mixtures, and other heat media. Problems. For Mechanical Engineering students.

332. Mechanical Measurements and Thermodynamics Laboratory.**Cr. 3, (0-6).****I.**

Prerequisite: Registration in M. E. 330 and 341. Correlation of the parts of various kinds of heat engines and of methods and instruments used in mechanical engineering measurements. Methods of calibrating various instruments. Applications of properties of steam, flow of liquids, heat transmission. Simple tests of power plant equipment. Outside work required. For Mechanical Engineering students.

333. Kinematics of Machinery. Cr. 3, (2-3). II.
 Prerequisite: Engr. Dwg. 133, M. E. 221, C. E. 332. Kinematics and dynamics for non-Mechanical Engineering students. Motions of fundamental parts of machinery, such as link work, cams, gears, and flexible connections. Static and inertia force analyses and balancing. Graphic treatment used when possible. For Textile and Electrical Engineering students.

334. Elementary Thermodynamics. Cr. 3. I.
 Prerequisite: Phys. 236, Math. 251. The theory of heat as applied to heat power machines. Properties of air, steam and other heat media, gas laws, reversibility, cycles and processes, refrigeration, flow in nozzles, mixtures of vapors and gases. For Architectural, Chemical, Civil, Electrical, Industrial and Textile Engineering students.

335. Heat Engines. Cr. 3. II.
 Prerequisite: M. E. 334. Application of the principles of thermodynamics to power generating equipment. Steam engines, boilers, air compressors, refrigeration machines, internal combustion, auxiliary equipment. For Chemical, Civil, Electrical, Industrial and Textile Engineering students.

337. Metallurgy. Cr. 3. I.
 Prerequisite: Chem. 220. The manufacture of iron, steel, and non-ferrous metals. Extraction of metals from their ores. Blast furnaces, open hearth, Bessemer, and crucible methods. Refining. Ferrous and non-ferrous alloys and their properties. Metallography and effect of heat treating.

341. Steam Power Plant Engineering. Cr. 4. I.
 Prerequisite: Registration in M. E. 330. Equipment of a modern steam power plant including boilers, economizers, superheaters, air preheaters, pumps, feed water heaters, draft producing equipment, coal handling machinery, boiler room accessories, engines, turbines, condensers, pipe layouts, combustion of fuels, heat balance calculations.

423-4. Internal Combustion Engines. Cr. 2. I and II.
 Prerequisite: M. E. 331 or 335. Internal combustion engine process analysis with variable specific heats and chemical equilibrium. Deviations from ideal processes. Liquid and gaseous fuels. Detonation and knock testing. Carburetion and fuel injection. Manifolds. Mixture distribution. Valves and valve mechanisms. Combustion-chamber and cylinder-head design. Engine lubrication, cooling, and performance.

431. Power Plant Laboratory. Cr. 3, (0-6). I.
 Prerequisite: M. E. 332. Continuation of tests on steam power plant equipment; turbines, fans, pumps. Tests on internal combustion engines using various fuels. Tests on refrigeration equipment. The analysis of data and their proper presentation in the form of an engineering report. Outside work required. For Mechanical Engineering students.

432. Power Plant Design. Cr. 3, (2-3). II.
 Prerequisite: M. E. 341, or 335. The design of a modern power plant to meet a given situation. Load curves. Selection for location. Choice of equipment for most economical service. Layout of plant for best operating conditions. Power costs.

433. Heating and Ventilation. Cr. 3. I.
 Prerequisite: M. E. 331 or 334. Heat loss calculations. Different systems of heating and ventilation of offices, hotels, and industrial plants.

434. Industrial Engineering. Cr. 3. II.
 Prerequisite: Eco. 232. The modern industrial system and the application of scientific knowledge to the management of industry, standardization, time studies, personnel relations. Plant layout, planning, scheduling, and inspection. Safety engineering. Engineering contracts.

436-7. Machine Design. Cr. 3, (0-9). I and II.
 Prerequisite: M. E. 322, 337; C. E. 333; Engr. Dwg. 221. First part consists of lectures; latter part consists entirely of laboratory work. Division of time at discretion of instructor. Fundamental principles involved in design of machinery. Drafting room work consists of the solution of numerous problems and the complete design of one or more machines.

439. Air Conditioning. Cr. 3. II.
 Prerequisite: M. E. 433. Fundamental principles underlying air conditioning and practical application of air conditioning to homes, restaurants, theaters, office buildings, factories, passenger cars, and manufacturing processes such as are used in the textile and food industries.

Engineering Seminar 411-2. Cr. 1. I and II.
 (Credit for this course may be given as often as successfully repeated.) The investigation and study of engineering problems of special interest and value to the students taking the course. Work is of the nature of research. Note: May be taken only with permission of head of the department.

Courses in this department which may be taken for graduate credit are: M. E. 322, 330-1, 423-4, 432, 433, 439, and Engineering Seminar 411-2 if properly petitioned for in advance and provided an additional special problem is done in each course.

DEPARTMENT OF PETROLEUM ENGINEERING

PROFESSOR PATTON. INSTRUCTOR HORN.

Petroleum Engineering in this institution is an outgrowth of the development of courses in the practical application of geology in the petroleum industry. Because of this, and because of the fundamental relation of geology to all branches of the petroleum industry, petroleum engineering is organized under the same department and administration as geology; namely, the Department of Geology and Petroleum Engineering, and the work in petroleum engineering is planned to give a sound basis of fundamental education in both engineering and geology.

Emphasis is placed upon fundamental training rather than a high degree of specialization to the end that a student may be prepared to go forward with whatever line of special endeavor in which he may be placed when he enters the industry itself. The curriculum in Petroleum Engineering contains three options, relatively more attention being given to the different lines indicated by the titles of the options.

(1) Geology Option. This option requires a basic knowledge of the science of Geology and of engineering principles.

(2) Geophysics Option. This option differs from the Geology Option in that more emphasis is placed upon Physics and Electrical Engineering.

(3) Production Option. The courses described below are required in this option as well as a basic knowledge of Geology. Elementary work is also required in Thermodynamics and Heat Engines.

The freshman year is the uniform one required of all Engineering students.

331. Drilling and Development. Cr. 3.

I.

Prerequisite: Geol. 131-2, Chem. 131-2, and junior standing. Exploration methods; standard and rotary drilling and completion methods; oil field hydrology; core analysis. Problems.

333. Production Engineering. Cr. 3.

II.

Prerequisite: Math. 233, and Petr. Engr. 331. Laws of fluid flow; reservoir hydrodynamics; study of flowing, air-gas lift, and pumping wells. Problems.

411. Seminar. Cr. 1.

I.

Prerequisite: Senior standing. Assigned readings, reports and discussion of current problems in petroleum and natural gas engineering.

421. Oil Field Testing Methods. Cr. 2, (0-6).

I.

Prerequisite: Petr. Engr. 333 and registration in Petr. Engr. 432. Theory and practical application in the laboratory of tests used in oil field practice.

432. Advanced Production Engineering. Cr. 3.

I.

Prerequisite: Petr. Engr. 333. A continuation of Petr. Engr. 333; secondary methods of recovery; field refining storage; transportation; oil field management. Problems.

433. Special Problems in Petroleum Production. Cr. 3, (2-3).

II.

Prerequisite: Petr. Engr. 432, C. E. 332 and 333, and M. E. 334-5. Special problems in selection of equipment for oil industry, including determination of power requirements, choice of materials, and cost estimates.

434. Natural Gas Engineering. Cr. 3, (2-3).

II.

Prerequisite: Petr. Engr. 333 and M. E. 334 and 335. Methods of production, metering, transportation and testing of natural gas. Problems.

The following courses may be taken for graduate credit: Pet. Engr. 411, 421, 432, 433, and 434 provided a special problem is done in each course.

DEPARTMENT OF TEXTILE ENGINEERING

PROFESSOR LEE. ASSISTANT PROFESSOR STANLEY.
INSTRUCTOR THOMAS.

The Department of Textile Engineering offers thorough training to students who intend entering the textile industry or the technical phases of allied fields, such as dry cleaning, laundering, or fabric purchasing for department stores. With its modern equipment and well arranged classrooms and laboratories, ample opportunities are afforded for both theoretical and practical instruction.

Three optional branches of study are offered the student for specialized work. The entire textile field itself is too broad to be covered in a single course; therefore, the division into engineering, chemistry, and design is made. The student may exercise his choice and concentrate his study in the field in which he has special aptitude. The course of freshman study is common to all engineering students, thereby allowing ample time before final choice of option is made.

The textile instruction consists of lectures, calculations, tests, investigations, and experimentation with the various machines; practical operation of the machines by students; the principles underlying fabric structure; and the elements of woven design. The structure and cost of fabrics are ascertained by work in cloth analysis.

The carding and spinning areas of the textile plant and laboratories have complete equipment required to convert the fiber into the finished yarn. All of the machines are the standard mill sizes and include vertical opener, picker, cards, both roller and revolving flat, comb, drawing frames, roving frames, and spinning frames, both regular and long draft. The weaving area of the plant is equipped with machinery for the production of almost any type cotton fabric. Upon these machines the students do practical work in the manufacture of many standard fabrics. Wide latitude is given the student in producing fabrics to illustrate different color combinations and weave effects of his own design. The principles of latch needle knitting applicable to the knitting of hose, half hose, and mufflers, and the construction and operation of circular and flat latch needle machines are studied. In the dyeing laboratory instruction, which precedes practical dyeing on the machines, students study the action of the alkalies and acids on the various textile fabrics, and the application of the various classes of dyes to silk, wool, cotton, and rayon. Full details of the processes employed in bleaching cotton yarn and cloth are followed, including water purifications by chemical and mechanical means, with special reference to bleaching and finishing. A testing laboratory is equipped with apparatus for testing the products in the various stages of manufacture into yarns and fabrics. Cotton, laps, slivers, rovings, yarns, and fabrics are tested to determine the moisture content. The effect of different speeds, settings, twists, temperatures, and humidities on the appearance, elasticity, and strength of yarns and fabrics is studied.

231. Textile Fibers and Fabrics. Cr. 3, (2-3). I.
Fiber study, yarns, fabric design, and weaving. Fabrics, selection, and maintenance. Selection and proper use of textile material. Open to all students.
232. Fabric Dyeing and Maintenance. Cr. 3, (2-3). II.
Methods of dyeing, bleaching, and finishing of textiles, color harmony, mixing, and color matching. Modern methods of laundering, dry cleaning, and stain removal. Testing for fastness of yarns and fabrics.
234. Cotton Classing and Marketing. Cr. 3, (1-6). I.
The grading, stapling, and marketing of cotton from the producer to the spinner.
235. Textile Fibers and Yarn Preparation. Cr. 3, (2-3) II.
Textile fibers other than cotton such as silk, wool, mohair, rayon, etc. Their physical and chemical properties and preparation for yarn manufacture.

326. Wool. Cr. 2, (1-3).**II.**

A study of wool as a finished product of the ranch and its commercial value as determined by its use as a textile raw material. It includes a study of the chemical and physical structure of the wool fiber, grading, sorting, scouring, and manufacturing into yarns and fabric.

331-2. Yarn Manufacture. Cr. 3, (2-3).**I and II.**

Prerequisite: T. E. 235. The principles of cotton yarn manufacturing, and the practical operation of opening, cleaning, picking, carding, drawing, and roving processes. The calculations involved with drafting, speeds, production, and power transmission through the various processes.

333-4. Bleaching and Dyeing. Cr. 3, (2-3).**I and II.**

Prerequisite: Registration in Chem. 343-4. The chemistry and practice of bleaching and dyeing animal, vegetable, and synthetic fibers in their principal forms—raw material, yarn and fabric.

335-6. Fabric Design and Weaving. Cr. 3, (1-6).**I and II.**

Lectures and practical work in the structure and manufacture of the simpler types of fabrics. Plain and dobby looms with special regard to the mechanical principles involved.

421-2. Fabric Analysis, Weaving and Jacquard Design. Cr. 2, (1-3).**I and II.**

Prerequisite: T. E. 335-6. Analyzation of fabric constructions. Advanced work in design of fancy woven fabrics. A continuation of the mechanics and operation of the various looms.

423. Advanced Dyeing and Color Matching. Cr. 2, (0-6).**II.**

Prerequisite: T. E. 433 and registration in T. E. 434. Advanced dyeing and color matching to specifications on yarns and fabrics.

424. Mill Organization. Cr. 2.**I.**

Prerequisite: T. E. 331-2, 335-6, and registration in T. E. 435. The student designs the plant and machinery layout of a mill to manufacture a given quantity of a textile product. Lectures are given on duties of operating executives and technical staffs.

425. Cotton Classing and Marketing. Cr. 2, (0-6).**II.**

Prerequisite: T. E. 234. Laboratory practice in judging the grade and staple of cotton. Cotton utility, value, commercial practices and marketing are also discussed.

433-4. Dyeing and Finishing. Cr. 3, (2-3).**I and II.**

Prerequisite: T. E. 333-4. Practical application of the principles taught in T. E. 333-4; a study of rayon technology; and a study of the various finishing processes as applied to textile fabrics.

435. Advanced Yarn Manufacture. Cr. 3, (2-3).**I.**

Prerequisite: T. E. 331-2. The principles of cotton spinning, spooling, winding, twisting, and warping, and the practical operations of the equipment involved.

436. Advanced Yarn Manufacture. Cr. 3, (1-6).**II.**

Prerequisite: T. E. 435. Methods of testing yarn and fabric quality, and the performance of an experimental or manufacturing project.

437. Cost Engineering. Cr. 3.**II.**

Prerequisite: T. E. 424. The first semester problem of T. E. 424 is used as a basis for setting up of a cost system. Theoretical items of cost are distributed to each productive department on bases approved by the Cotton Textile Institute. Production schedules are arranged for all possible yarn and fabric specifications, and the cost of any product of the mill is accurately calculated. A thorough study is made of predictions of costs for use in price setting which is absolutely necessary in efficient mill management.

Engineering Seminar 411-2. Cr. 1.**I and II.**

(Credit for this course may be given as often as successfully repeated.) The investigation and study of engineering problems of special interest and value to the students taking the course. Work is of the nature of research. Note: May be taken only with permission of head of the department.

DIVISION OF HOME ECONOMICS

MARGARET W. WEEKS, DEAN

The Division of Home Economics at Texas Technological College offers its students a well-rounded college education in which the needs of women are paramount. The aim of the Division is to prepare young women for the important position of homemaking and for the vocations which grow out of homemaking activities. The curricula are arranged to meet the needs of those students who desire a good foundation in the subjects relating to the social, scientific, artistic, and economic problems of the home; of those who wish to prepare themselves for teaching home economics in the high schools of the state; of those who wish to prepare themselves for community leaders in government programs such as Extension, Farm Security, National Youth Administration, Works Progress Administration; and of those who wish to enter commercial fields.

The Division of Home Economics also aims to give instruction to students registered in other divisions of the College who may elect home economics courses as a part of a liberal education. Students in the Division of Arts and Sciences may use twenty-four semester hours of Home Economics as partial fulfillment of the requirements for the Bachelor of Arts degree.

Three buildings are used for Home Economics teaching; namely, the first unit of the Home Economics Building, the Home Management House, and the Nursery School.

The first unit of the Home Economics Building was completed at the opening of the College. It is a two-story brick building and contains, in addition to classrooms, well-equipped laboratories for teaching foods and nutrition, clothing and textiles, household management, and applied arts.

In January, 1936 the first Home Economics Annex was built; in January, 1939 a second annex was added. These buildings are of temporary wooden construction connected with the Home Economics Building by short halls. They contain laboratories, classrooms, and offices.

The Home Management House, located near the Home Economics Building, is a two-story brick building designed in harmony with the Spanish type of architecture adopted for the College buildings. The function of the house is threefold: to serve as a home where students may put into practice the knowledge gained in the classrooms; to serve as a laboratory for work in home furnishings; and to be used as a center for social activities of the Division of Home Economics.

The Nursery school, located southwest of the Home Economics Building, was completed in January, 1938. It is a small cottage-type building and is used as a laboratory for the classes in Child Development.

Field For Graduates. There are many positions, aside from homemaking, open to women trained in home economics, among which may be mentioned the following:

Testers in textile laboratories for department stores; personal shoppers in large department stores; designers in factories and dressmakers' shops; home demonstration agents; consultants or stylists in home decorating studios and department stores; dietitians in hospitals and schools; tea room or lunch room managers; writers of articles dealing with home problems.

For such commercial positions it is usually necessary that the students have the opportunity for practical experience in the commercial field, and also that she have graduate courses in the specialized subject. The Division of Home Economics is prepared to give advice and to help secure for its students such practical experience as will lead to the vocations listed above.

Teacher Training In Vocational Home Economics. Home Economics instruction at Texas Technological College has been approved by the Federal and State Boards of Vocational Education. Graduates of the Division of Home Economics who satisfactorily complete the work of the Vocational Home Economics Education major are eligible to receive, in addition to the Bachelor of Science degree, the Home Economics Certificate of Approval.

A Vocational Certificate of Approval requires either a Bachelor's or Master's Degree in Home Economics from an institution approved for teacher training by the Vocational Division of the Federal Office of Education. The Texas Technological College is so approved for training teachers of Home Economics in federally aided schools. See **Home Economics Education Curriculum**.

Graduate students who desire to qualify for the Vocational Certificate of Approval certification should so state in submitting their credits for admission to the Graduate Division. A statement of courses to be completed for this certificate will be furnished upon request. The graduate program can be planned to include or partially include these requirements.

A Vocational Certificate of Approval is not in lieu of any state certificate but is in addition thereto. It is a permit to teach Home Economics in schools receiving federal funds.

Teachers' Certificates. Teachers' certificates valid in Texas, and in other states as well, may be secured by students registered in the Division of Home Economics, provided a sufficient number of courses in Education are included in the student's program. The courses in Education may count as elective subjects. For complete information regarding teachers' certificates, see **Department of Education and Psychology**.

Suggested High School Preparation. High school students who plan to major in Home Economics in college are urged to take the college preparatory course in high school. This should include chemistry, physics, four years of English, foreign language, history, civics, mathematics, and one or more years of home economics.

Regulations. Regulations governing students in the Division of Home Economics are essentially the same as those applying to students in other divisions of the College. These regulations may be found under **Regulations for Students**.

Orientation. Freshman students are required to attend certain scheduled lectures during their freshman year. The course is known as Home Economics Orientation 111 and is a part of the requirements for graduation.

Home Economics Lectures. All senior students are required to attend the home economics lectures which are scheduled during the second semester of the senior year. This course is known as Home Economics Education 411.

Requirements For Graduation. Specialized courses of study are offered in Clothing and Textiles, Foods and Nutrition, Home Demonstration, Institutional Management, and Vocational Home Economics Education, as well as a course in General Home Economics.

All Home Economics students are required to pursue the same course of study throughout the freshman year. This is done to allow the student to become familiar with the various branches of home economics so that she may have a better basis for choice of the curriculum she wishes to pursue. The choice of major is made in the sophomore year.

Students who wish to obtain at the close of the freshman year a certificate to teach may substitute a year of education for any of the prescribed subjects, with the exception of English. The subject which is omitted must be made up in the sophomore year.

Students who are found to be notably deficient in the fundamentals of oral or written English will be required to remove the deficiency before they

are graduated from the College. At the option of the department head, no grade lower than C may be counted in the number of hours required in the major subjects or in subject matter closely connected therewith.

Electives in any curriculum must be approved by the head of the department in which the student seeks a degree. The approval must be secured and filed in the office of the Dean before the student registers for a course.

Subjects to absolve extra hours required because of excessive absences or for deficiency in grade points must be approved by the Dean.

Undergraduate Degree. The degree of Bachelor of Science in Home Economics will be conferred upon students who satisfactorily complete one of the prescribed curricula in the Division of Home Economics as outlined on the following pages.

The degree is given with majors in Vocational Home Economics Education, Clothing and Textiles, Foods and Nutrition, and General Home Economics. For all majors except the Home Economics Education major, 130 semester hours work are required, including four semester hours of physical education, together with 130 grade points. For the Vocational Home Economics Education major, 134 semester hours work are required, including four semester hours of physical education, together with 134 grade points.

Graduate Study In Home Economics. The Texas Technological College offers the degree of Master of Science with majors and minors in the several departments of the Division of Home Economics as follows: majors in the departments of Home Economics Education, and Foods and Nutrition; and minors in the departments of Home Economics Education, Foods and Nutrition, Clothing and Textiles, Child Development, and Applied Arts. For further information see the Division of Graduate Study in this catalogue, or the separate Graduate Bulletin.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE IN HOME ECONOMICS

Uniform Freshman Year for All Home Economics Students

	Semester Hours	
	Sem. I	Sem. II
Eng. 131-2. Freshman Composition	3	3
Chem. 131-2. General Chemistry	3	3
Math. 137. Commercial Algebra	3	.....
A. Arts. 131. Elementary Design .....	.....	3
*Foods 134. Principles of Food Preparation	3	.....
Cloth. 131. Elementary Textiles .....	.....	3
**Govt. 131-2. American Government	3	3
H. E. Orient. 111. Orientation for Home Economics Students	1	.....
Physical Education 111-2.	1	1
	17	16

*If two units in home economics are not presented from high school, Foods 131-2 is scheduled.

**Students who register for the Clothing and Textiles major are advised to schedule French 131-2 in the freshman year and Government 131-2 in the junior year.

**CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE
IN HOME ECONOMICS**

CLOTHING AND TEXTILES MAJOR

For Uniform Freshman Year See Page 123

Semester Hours
Sem. I Sem. II

Sophomore Year

Eng. 231-2. Introduction to Literature	3	3
Zool. 235-6. The Human Body	3	3
*Cloth. 132. Principles of Dressmaking	3	---
or		
*Cloth. 133. Dress Selection		
A. Arts 231. Costume Design	3	---
Cloth. 232. Dressmaking		3
**French 231-2. A Reading Course in French	3	3
Elective		3
Physical Education	1	1
	16	16

Junior Year

Eco. 231-2. Principles of Economics	3	3
or		
Eco. 235. Principles of Economics		
and		
Elective in Soc. or Anthro.		
Psy. 230. Introduction to Psychology		3
or		
Psy. 231. Educational Psychology		
Bact. 231. Bacteriology	3 or 4	---
or		
Chem. 341. Organic Chemistry		
Cloth. 333. Pattern Designing	3	---
Cloth. 331. Tailoring		3
or		
Cloth. 332. Advanced Dressmaking		
***Govt. 131-2. American Government	3	3
Hist. 131-2. History of Civilization	3	3
A. Arts 331. Interior Decoration		3
	15 or 16	18

Senior Year

Cloth. 431. Textile Economics	3	---
Cloth. 435. Home Furnishings		3
Elective in A. Arts	3	---
Electives in Clothing and Textiles	3	6
Electives in Home Economics	3	3
****Electives	3	3
H. E. Ed. 411. Home Economics Lectures		1
	15	16

*If two units in home economics are presented from high school, Cloth. 133 is scheduled; otherwise Cloth. 132 is scheduled.

**See foot note ** under Uniform Freshman Year.

***See foot note ** under Uniform Freshman Year.

****From other divisions of the college.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE IN HOME ECONOMICS

VOCATIONAL HOME ECONOMICS EDUCATION MAJOR

For Uniform Freshman Year See Page 123

Sophomore Year

Eng. 231-2. Introduction to Literature	3	3
Zool. 235-6. The Human Body	3	3
*Cloth. 132. Principles of Dressmaking	3	.....
or		
*Cloth. 133. Dress Selection		
Cloth. 232. Dressmaking		3
A. Arts 231. Costume Design	3	.....
Foods. 232. Meal Planning and Table Service		3
Psy. 231. Educational Psychology	3	.....
Ed. 234. Principles of Secondary Education		3
Physical Education	1	1

Junior Year

	16	16
Ag. Eco. 235. Fundamentals of Economics	3	.....
or		
Eco. 235. Principles of Economics		
Rural Soc. 432. Rural Sociology		3
or		
Soc. 330. Principles of Sociology		
or		
Soc. 333. Current Social Problems		
Chem. 341. Organic Chemistry	4	.....
Bact. 231. Bacteriology		3
Cloth. 333. Pattern Designing	3	.....
A. Arts. 331. Interior Decoration		3
Foods 332. Food Purchasing	3	.....
or		
Foods 433. Advanced Food Preparation and Serving		
Nutrition 334. Dietetics		3
Psy. 331. Child Psychology	3	.....
or		
Psy. 335. Adolescent Psychology		
H. E. Ed. 331. Methods in Vocational Home Economics		3
H. Mgt. 331. Household Administration		3

Senior Year

	16	18
H. E. Ed. 431. Methods of Teaching Home Economics	3	.....
H. E. Ed. 441. Student Teaching		4
Child. Dev. 431. Child Development	3	.....
Elective in Child Development or Family Relations		3
H. Mgt. 432. Residence in Home Management House	3	.....
Cloth. 334. Family Clothing	3	.....
or		
Cloth. 431. Textile Economics		
Elective in Foods and Nutrition		3
Electives in Home Economics	3	3
**Elective	3	3
H. E. Ed. 411. Home Economics Lectures		1

Electives

18 17

Students who wish to prepare themselves for extension service work such as county home demonstration agents or assistant agents should choose among their electives:

Foods 331. Food Demonstration

Foods 335. Food Preservation

Cloth. 322. Weaving Crafts

Electives in Agriculture—at least six semester hours

*If two units in home economics are presented from high school, Cloth. 133 is scheduled; otherwise Cloth. 132 is scheduled.

**Approved elective from other divisions of the College.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE IN HOME ECONOMICS

GENERAL HOME ECONOMICS MAJOR

For Uniform Freshman Year See Page 128

Sophomore Year

Eng. 231-2. Introduction to Literature	3	3
Zool. 235-6. The Human Body	3	3
*Cloth. 132. Principles of Dressmaking	3	.....
or		
*Cloth. 133. Dress Selection		
Cloth. 232. Dressmaking		3
A. Arts 231. Costume Design	3	.....
Foods 232. Meal Planning and Table Service		3
Psy. 231. Educational Psychology	3	.....
Elective		3
Physical Education	1	1
	16	16

Junior Year

Ag. Eco. 235. Fundamentals of Economics	3	.....
or		
Eco. 235. Principles of Economics		
Rural Soc. 432. Rural Sociology		3
or		
Soc. 330. Introduction to Sociology		
or		
Soc. 333. Current Social Problems		
Bact. 231. Bacteriology	3	.....
Chem. 341. Organic Chemistry		4
Cloth. 333. Pattern Designing	3	.....
A. Arts. 331. Interior Decoration		3
Nutrition 334. Dietetics	3	.....
Foods 332. Food Purchasing		3
or		
Foods 433. Advanced Food Preparation and Serving		
Psy 331. Child Psychology	3	.....
or		
Psy. 335. The Psychology of Adolescence		
Elective		3
	15	16

Senior Year

H. E. Ed. 411. Home Economics Lectures		1
Child Dev. 431. Child Development	3	.....
Fam. Rel. 433. Family Relations		3
Cloth. 431. Textile Economics	3	.....
Cloth. 435. Home Furnishings		3
H. Mgt. 331. Household Administration	3	.....
H. Mgt. 433. Housing and Household Equipment		3
Elective in Home Economics	3	3
**Electives	6	3
	18	16

Electives

Students who wish to prepare themselves for extension work such as county home demonstration agents or assistant agents should choose among their electives:

Foods 331. Food Demonstration

Foods 335. Food Preservation

Cloth. 322. Weaving Crafts

Electives in Agriculture—at least six semester hours

*If two units in home economics are presented from high school, Cloth. 133 is scheduled; otherwise Cloth. 132 is scheduled.

**Approved electives from other divisions of the college.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE IN HOME ECONOMICS

FOODS AND NUTRITION MAJOR

For Uniform Freshman Year See Page 128

Sophomore Year

Eng. 231-2. Introduction to Literature	3	3
Zool. 235-6. The Human Body	3	3
Chem. 220. Qualitative Analysis	2	.....
*Cloth. 133. Dress Selection	3	.....
or		
*Cloth. 132. Principles of Dressmaking		
A. Arts 131. Elementary Design		3
or		
A. Arts 337. Art Appreciation		
Foods 232. Meal Planning and Table Service	3	.....
Nutrition 334. Dietetics		3
Psy. 231. Educational Psychology	3	.....
Ed. 234. Principles of Secondary Education		3
Physical Education	1	1

Junior Year

Eco. 235. Principles of Economics	18	16
Soc. 330. Introduction to Sociology	3	.....
or		
Soc. 333. Current Social Problems		
Foods 332. Food Purchasing	3	.....
Foods 331. Food Demonstration		3
or		
Foods 433. Advanced Food Preparation and Serving		
Bact. 231. Household Bacteriology	3	.....
H. Mgt. 331. Household Management		3
Chem. 343-4. Organic Chemistry	4	4
Commercial Food Service Option		
Journ. 337. Journalism for Home Economics Students	3	.....
Speech 337. Project Speaking		3

Institutional Management Option	16	16
B. Ad. 244-5. Introduction to Accounting	4	4
Nutrition Option	17	17
Math. 138. Mathematics of Finance	3	.....
Approved Elective		3

Senior Year

Nutrition 432. Advanced Nutrition	16	16
Nutrition 431. Nutrition in Disease	3	.....
Child Dev. 431. Child Development		3
or		
Fam. Rel. 433. Family Relations		
Elective	3	6
H. E. Ed. 411. Home Economics Lectures		1

Commercial Food Service Option		
Foods 331. Food Demonstration	3	.....
Foods 333. Experimental Cookery		3
Cloth. 431. Textile Economics	3	.....
H. Mgt. 433. Housing and Household Equipment		3
	15	16

*If two units in home economics are presented from high school, Cloth. 133 is scheduled; otherwise Cloth. 132 is scheduled.

Institutional Management Option

Inst. Mgt. 432. Large Quantity Cookery	3
Inst. Mgt. 435. Organization and Administration	3	.....
Inst. Mgt. 436. Institutional Housekeeping		3
Cloth. 431. Textile Economics		3

Nutrition Option

Chem. 331-2. Qualitative Analysis	15	16
Foods 333. Introduction to Research in Cookery	3	3
Nutrition 433. Nutrition Work with Children	3	3
	15	16

STUDIES PREPARATORY TO NURSING

The following curriculum is offered in affiliation with the three hospitals in Lubbock; namely the Lubbock Sanitarium, St. Mary of the Plains Hospital, and the West Texas Hospital. Three years or the equivalent are spent at the College; the remaining three years are spent at the school of nursing of one of the above mentioned hospitals where theoretical and practical training in nursing is given.

The curriculum is recommended for students who contemplate the study of nursing as a profession.

CURRICULUM FOR PRE-NURSING STUDENTS**Freshman Year**

Eng. 131-2. Freshman Composition	3	3
Chem. 131-2. General Chemistry	3	3
Zool. 235-6. The Human Body	3	3
Math. 137. Commercial Algebra	3	.....
Foods 133. Food Selection and Elementary Nutrition		3
Govt. 131-2. American Government	3	3
Orient. 111. Orientation for Home Economics Students	1	.....
Physical Education 111-2.	1	1

Sophomore Year

	17	16
Eng. 231-2. Introduction to Literature	3	3
Zool. 231-2. Vertebrate Anatomy	3	3
Cloth. 133. Dress Selection	3	.....
Psy. 230. Introduction to Psychology		3
or		
Psy. 231. Educational Psychology .....		.....
Chem. 220. Qualitative Analysis	2	.....
Foods 232. Meal Planning and Table Service	3	.....
Nutrition 334. Dietetics		3
Eco. 235. Principles of Economics	3	.....
Soc. 330. Introduction to Sociology		3
or		
Soc. 333. Current Social Problems .....		.....
Physical Education	1	1

Junior Year

	18	16
Chem. 341. Organic Chemistry	4	.....
Chem. 342. Physiological Chemistry		4
or		
Chem. 343-4. Organic Chemistry .....		.....
Nutrition 433. Nutrition Work with Children		3
Child Dev. 431. Child Development	3	.....
Bact. 231. Bacteriology	3	.....
A. Arts 337. Art Appreciation		3
Electives	3	3
Electives in Home Economics	3	3
	16	16

DEPARTMENT OF APPLIED ARTS

PROFESSOR POINDEXTER. ASSISTANT PROFESSOR HAWLEY.
INSTRUCTOR LOCKARD.

The Department of Applied Arts aims to develop wise selection, good judgment, and creative ability in the choice and combination of objects of daily use; to promote understanding and appreciation of aesthetic values irrespective of cost; and to afford opportunities for the acquisition of skills and knowledge that will open new fields of activity for the individual and add to the joy of living. The courses are planned to be of value to students majoring in Home Economics and other students wishing to minor in Applied Arts or to develop a more discriminating taste.

131. Design. Cr. 3, (2-3).

I, II.

A study of the elements and principles involved in creating designs that combine the qualities of beauty and use. Experience in producing designs with material objects as well as with pen, pencil, and brush. Introduction to fine designs and color combinations from different countries and periods.

132. Design. Cr. 3, (1-6).

I, II.

Prerequisite: A. Arts 131, or previous training satisfactory to the instructor. Continuation of Design 131. Application of student's designs and color schemes in batik, tie-dye, block prints, or stencil. Appreciation for color and decorative design through a study of historic and modern textiles.

231. Costume Design. Cr. 3, (2-3).

I, II.

Prerequisite: A. Arts 131. Application of design principles to costume planning and selection; analysis of personality and figure differences and the choice of specifically becoming line and color. Planned for immediate use by the individual student; for those desiring to teach vocational home economics; and as a beginning course leading to such positions as costume designer, buyer, fashion illustrator, and consultant in piece-goods department.

232. Crafts Design. Cr. 3, (1-6).

I, II.

Prerequisite: Applied Arts 131 or the equivalent. Practice in bookbinding, leather work, and wood carving. Attention given to adapting these crafts to use in public schools as well as to the student's own immediate and future use.

331. Interior Decoration. Cr. 3, (2-3).

I, II.

Prerequisite: A. Arts 131 and junior standing. An introductory survey of our domestic architecture; house plans with emphasis on utility, convenience, and beauty; application of design principles to selection and arrangement of wall coverings, rugs, furniture, curtains, pictures, and accessories. Planned for immediate use by the individual student, for those desiring to teach vocational home economics, and as a beginning course leading to positions in the fields of domestic architecture and interior decoration.

332. Metal and Jewelry. Cr. 3, (1-6).

I, II.

Prerequisite: Applied Arts 131 and 132, or 232 or the equivalent, and junior standing. Creative problems in metal and jewelry. Appreciation for fine design in these crafts developed through study, observation, discussion, and experience. To open new fields of interest and enjoyment to students and to serve as a beginning course leading to employment as trained craftsmen or as teachers of these crafts.

333. Metal and Jewelry. Cr. 3, (1-6).

I, II.

Prerequisite: Applied Arts 332. More advanced problems in metal or jewelry with additional construction and decorative processes.

334. Wood Carving. Cr. 3, (1-6).

I, II.

Prerequisite: Applied Arts 131 and 132, or 232 or the equivalent, and junior standing. Creative problems in wood. Chip carving. Relief carving. Appreciation for fine design in this material developed through study, observation, discussion, and experience.

335. Leather Work. Cr. 3, (1-6).

I, II.

Prerequisite: Applied Arts 131 and 132, or 232 or the equivalent, and junior standing. Creative problems in leather. Appreciation for fine design in this material developed through study, observation, discussion, and experience.

336. Advanced Costume Design. Cr. 3, (2-3).

II.

Prerequisite: A. Arts 131, or the equivalent, and A. Arts 231, junior standing. Greater emphasis placed on developing technical ability and further practice in creative problems. For those who wish to specialize in some phase of clothing design.

337. Art Appreciation. Cr. 3.

I, II.

Prerequisite: Sophomore or junior standing. A survey of certain minor and major arts, planned to stimulate interest and understanding of articles produced in these fields with an effort to establish correct attitudes and set up standards for evaluating objects with reference to beauty, cost, and use.

338. Art Appreciation. Cr. 3.**II.**

Prerequisite: Sophomore or junior standing. A study of certain minor and major arts not included in Applied Arts 337 and selected by the group. Same objectives as those stated for Applied Arts 337.

411. Advanced Design. Cr. 1, (0-3).**S.**

Prerequisite: Six hours in Applied Arts and junior or senior standing. Problems in design requiring creative thinking in the use of line, form, dark and light, color, and texture.

The following advanced undergraduate courses may be used as a minor for a Master's Degree if properly petitioned for in advance, and provided an additional problem is done in each course: Applied Arts 332, 333, 334, 335.

DEPARTMENT OF CHILD DEVELOPMENT AND FAMILY RELATIONS

PROFESSOR CALLAN.

The Department of Child Development and Family Relations endeavors, through the understanding of the physical growth and behavior of young children, to build within the student a better understanding of her adjustment; to develop the ability to guide children toward integrated experiences; and to develop an appreciation of wholesome family life through the study of the underlying factors of family relationships.

A nursery school will be used as a laboratory for work in child development. While the welfare of the child is always of paramount consideration, the real aim of the nursery school is one of teaching college students.

Dr. M. C. Overton of the Lubbock Sanitarium is the medical adviser for the Nursery School. Physical examination is given to each child at the beginning of the school term, and a nurse from Dr. Overton's office is in charge of medical inspection of the children each morning.

A parents' group in which parents study problems of child behavior is also conducted in connection with the nursery school. Students may attend these adult classes. The content of the course is objective.

CHILD DEVELOPMENT

431. Child Development. Cr. 3, (2-3).**I, II.**

Prerequisite: Psy. 230 or Psy. 231. The development of learning in young children; emphasis on physical, social, and emotional development. Opportunity for observation and participation in the nursery school.

432. Procedures of Nursery School Education. Cr. 3, (1-6).**II.**

Prerequisite: Child Development 431. A course worked out with the home economics play-school in mind. Deals with the aspects of nursery school administration and organization; the nursery school child; teaching techniques; habit formation; mental hygiene; play equipment; music; training in social habits. The nursery school will be used as a laboratory.

434. Development in Infancy. Cr. 3.**I.**

Prerequisite: Zool. 235-6, Psy. 230 or 231, Nutrition 334 or parallel. The development of the child during the prenatal period and infancy. Emphasis on prenatal care, also on physical and psychological factors influencing early growth and development.

531-2. Experimental Techniques in Child Study. Cr. 3.**S.**

Prerequisite: Graduate standing, six hours of psychology, including Psy. 331, Child Development 431. A critical study of the literature of child development, with emphasis upon techniques used in observation and experimentation; the development and execution of a plan for a simple research problem, treatment of data, and statement of conclusions.

FAMILY RELATIONS

433. Family Relations. Cr. 3.**I, II.**

Prerequisite: Senior standing. Formerly Child Dev. 333. Factors in American family life; emphasis on present day problems relating to the home.

Courses in this department which may be taken for credit are: Child Dev. 432, 531-2; Fam. Rel. 433; provided they are properly petitioned for and a special problem is done in each course numbered 400.

DEPARTMENT OF CLOTHING AND TEXTILES

PROFESSOR ERWIN. ASSOCIATE PROFESSOR BUSTER. ASSISTANT PROFESSORS HEINEMAN, LOONEY. INSTRUCTOR ALLRED.

The Department of Clothing and Textiles endeavors to train future homemakers in the best known practices of providing garments and materials for the family and home; to translate these practices into principles both for the homemaker and for the teacher of homemaking; and to provide sufficient background so that, by the addition of personal initiative and practical experience, a student may qualify for related commercial, professional, and research positions.

Students majoring in this department must consult the head of the department before registering as to selection of advanced courses and electives. Students expecting to teach in non-vocational schools should elect education courses. Students wishing to teach in vocational high schools should not major in this department, but in the Department of Vocational Home Economics Education. Students desiring to prepare for research work will elect chemistry, physics, textile engineering, and related courses, as substitutes for design and clothing construction courses, upon the recommendation of the head of the department.

131. Elementary Textiles. Cr. 3, (2-3). I, II.

Identification of fabrics, weaves, fibers, finishes, and quality of fabrics. Practical problems in testing, laundering, wearing qualities, and purchasing. Use and care of fabrics for clothing and home furnishings; the effect of heat and chemicals on fabrics.

132. Principles of Dressmaking. Cr. 3, (1-6). I, II.

Practical problems in the selection of harmonious wardrobes based on art principles considering occasions, needs, and cost. Principles of using commercial patterns. Construction of tailored and afternoon dresses of cotton, linen, or rayon.

133. Dress Selection. Cr. 3, (1-6). I, II.

A general course devised for any woman on the campus. Consideration of grooming, hair styling, accessories, and assembling a wardrobe suitable to various occasions. Laboratory devoted to making and remodeling of clothes.

232. Dressmaking. Cr. 3, (1-6). I, II.

Prerequisite: Cloth. 131, 132; A. Arts 231. Essential principles of dressmaking. Skill in handling silk and wool through construction of a dress and a coat.

321. Children's Clothing. Cr. 2, (1-3). I.

Prerequisite: Cloth. 131, 132, 333, or 232; A. Arts 131, 231. Selection, care, design, and construction of children's clothing. Wardrobe budgets based on various income levels.

322. Weaving Crafts. Cr. 2, (0-6). II.

Prerequisite or parallel: Cloth. 131; A. Arts 131. Hand weaving and rug hooking. Preparing warp, threading loom, dyeing yarn and other materials.

331. Tailoring. Cr. 3, (1-6). I.

Prerequisite: Cloth. 232, 333; advanced standing. Technique of constructing tailored garments; pressing and cleaning. Time and cost studies. Several garments made for customers.

332. Advanced Dressmaking. Cr. 3, (1-6). II.

Prerequisite: Cloth. 333, 232; advanced standing. Technique in handling garments involving materials unusual in texture. Adapting historic costume and other source material to modern decorative details. Patterns adapted from commercial, flat-pattern, and simplified draping techniques. Problems adjusted to needs of individual students in the construction of practically any type of garment.

333. Pattern Designing. Cr. 3, (1-6). I, II.

Prerequisite: Cloth. 131, 232; A. Arts 231 or parallel. Principles of fitting and special needs for common figure difficulties developed. Corrected pattern used as a foundation or master pattern in designing and cutting free-hand patterns. Methods of evolving unusual designs through relocation of seams, and modification of darts. Practical methods of designing details in blouses, sleeves, skirts, and collars for teachers, homemakers, and prospective fashion designers.

334. Family Clothing Problems. Cr. 3, (2-3). II.

Prerequisite: Junior standing; Cloth. 232, 333; Eco. 231 or parallel. Consideration of qualities and expected service of articles of clothing available to various income levels. Relation of such limitations to home and family life. Review of recent research bearing on problems of buying for the family. Re-evaluation of family budget problems, laundering, and dry cleaning facilities in various communities. Renovation, home care, repair, storage. Outside project in clothing renovation.

431. Textile Economics. Cr. 3, (2-3).

I, II

Prerequisite: Cloth. 333 or 232; Eco. 231 or 235. Development of a consumer's code through the coordination of principles of economics, science, hygiene, aesthetics, social psychology, practical values, and cost for the wiser consumption of textiles.

432. Advanced Textiles. Cr. 3, (2-3).

II.

Prerequisite: Cloth. 431 and senior standing. Reading, reports, conferences, and individual laboratory work in a survey of research already accomplished or still needed in the solution of consumer problems in textiles. Offered in alternate years; not offered in 1941-42.

433. History of Costume. Cr. 3.

II.

Prerequisite: Advanced standing, history, applied arts, French, and clothing courses satisfactory to instructor. Planning and decorative features based on the contribution of different countries and civilizations to the development of dress. Offered in alternate years; offered in 1941-42.

434. Historic and Contemporary Fabrics. Cr. 3.

II.

Prerequisite: Advanced standing. Study of choice fabrics of many peoples, ancient and modern, studied from the cultural point of view. Coptic and Peruvian textiles; tapestry; Navajo blankets; laces and embroideries; Oriental rugs, Cashmere and Paisley shawls; Colonial coverlets; modern French, Scandinavian, and other hand-woven fabrics.

435. Home Furnishings. Cr. 3, (1-6).

II.

Prerequisite: Cloth. 334 or 431, and A. Arts. 331, or parallel. Purchase, use, care, and construction of household linens, curtains, rugs, upholstery, and slip covers. Refinishing furniture. Especially for home demonstration agents and homemakers.

436. Textile Merchandising. Cr. 3, (1-6).

I.

Prerequisite: Junior standing and Cloth. 131. Study of factors influencing values in merchandising that consumers want and retailers look for in buying. Laboratory stresses identification of fibers, fabrics, qualities, and brands of piece goods; care, use, and display of merchandise, with special attention to cotton and rayon.

437. Textile Merchandising. Cr. 3, (1-6).

II.

Prerequisite: Cloth. 436. Study of factors influencing different price levels and values in textile merchandise other than piece goods, such as coats, dresses, hose, shirts, shoes, gloves, drapery, household linens, bedding, and upholstery. Familiarity with technical terms, current fashion trends, standardization of textiles, labels, legislation, and consumer interest.

531. Advanced Garment Fitting. Cr. 3, (1-6).

II. S.

Prerequisite: Cloth. 333. Open to graduate students with experience in teaching clothing. Advanced study of pattern making and alteration. Three garments constructed through the second and third fittings, to develop technique, principles, and high standards for fitting. Attention to methods of fitting one's self, restyling old garments, altering ready-to-wear, correcting figure difficulties commonly met in the classroom, and fitting for style. Consideration of classroom methods of handling these problems. Dressmaking considered wherever related to fitting difficulties. Offered in alternate summers; not offered in summer, 1941.

The following advanced undergraduate courses may be used as minors or electives for a Master's Degree, if properly petitioned for in advance, provided an additional special problem is done in each course numbered 300 and 400: Cloth. 331, 332, 334, 431, 432, 433, 434, 531.

DEPARTMENT OF FOODS AND NUTRITION

PROFESSORS McCRERY, WEEKS. ASSOCIATE PROFESSOR

TWYFORD. ASSISTANT PROFESSOR MINA MARIE WOLF.

INSTRUCTOR KLEPPE.

The courses in foods and nutrition are planned to meet the needs of those who desire a good foundation in the principles underlying the selection, purchasing, preparation, and use of foods in the proper nutrition of the individual. Students electing the curriculum in foods and nutrition may prepare themselves for homemaking, for appointments in dietetics, foods and nutrition teaching, social welfare, commercial food service, and research.

Students interested in preparing themselves for institutional positions such as directors of lunch rooms or dietitians in institutions should schedule the institutional management courses among their electives. Students interested in becoming dietitians in hospitals should schedule also Nutrition 421. Following graduation, a graduate course of eight to twelve months should be taken in a hospital approved by the American Dietetic Association.

Students interested in preparing for research should supplement the curriculum with outlined courses in chemistry, physics, and mathematics instead

of the indicated electives. Foreign language is advised for those contemplating graduate study. Courses in sociology and psychology are advised for those interested in social welfare work; large quantity cookery and catering, for those preparing for commercial foods appointments.

Students expecting to teach in high school should choose among their electives Vocational Home Economics Education. Students expecting to teach home economics in a vocational high school should not major in this department, but in Home Economics Education.

Students should consult the head of the department before registering for advanced courses and electives.

FOODS AND COOKERY

131-2. Elementary Food Preparation and Serving. Cr. 3, (2-3). Each, I and II.
Prerequisite to all other courses in foods with the exception of Foods 134 and 233. The fundamental principles of cookery in relation to all types of foods. The planning and serving of simple home meals.

134. Principles of Food Preparation and Selection. Cr. 3, (1-6). I.

Prerequisite or parallel: Chem. 131-2. The scientific principles underlying food preparation, related problems in food economics, phases of production and manufacture influencing food selection, and the nutrition principles essential to menu planning. Especially offered for students who have had three years of high school home economics and for other mature students.

232. Meal Planning and Table Service. Cr. 3, (1-6). I, II.

Prerequisite: Foods 132 or 134. The planning and serving of suppers, luncheons, dinners, buffet meals, and afternoon teas. Food combinations in relation to the nutritive and the aesthetic aspects of menu planning. Computation of costs of meals, and compilation of food budgets. Economics of food purchasing.

233. Food Selection and Serving. Cr. 3, (2-3). I, II.

A study of food in relation to health. Food budgets and economics of food purchasing. The planning, preparation, and serving of meals in the home including meals for special occasions as buffet suppers, afternoon teas, and picnic lunches. Open to men and women not registered as regular home economics students.

331. Food Demonstration. Cr. 3, (2-3). I, II.

Prerequisite: Foods 232, Nutrition 334. Procedure in demonstrating before audiences of different sorts. Especially for prospective teachers and home demonstration agents.

332. Food Purchasing. Cr. 3, (2-3). I.

Prerequisite: Foods 232, Nutrition 334. Food purchasing with emphasis on the relation of the producer to the consumer, on food legislations, and on methods of reducing food costs. Visits to local markets. Economy of time, labor, money, and equipment.

333. Introduction to Research in Cookery. Cr. 3, (1-6). II.

Prerequisite: Foods 232, Nutrition 334, and junior standing. Experimental work in the field of cookery. Factors influencing food preparation. Comparison of commercially-prepared with home-prepared foods.

335. Food Preservation. Cr. 3, (0-9). S.

Prerequisite: Junior or senior standing in Foods and Nutrition. Adaptation of newer methods of food preservation to modern science. Intensive practice in canning, preserving, and pickling meats, fruits, vegetables. Especially for home demonstration agents and vocational home economics teachers.

433. Advanced Food Preparation and Serving. Cr. 3, (1-6). I.

Prerequisite: Foods 232, 332, Nutrition 334, and senior standing; open to juniors upon recommendation of head of department. Experience in preparation of unusual types of foods and meals for special occasions. Designed to develop a more cosmopolitan attitude toward food. Opportunity is given for practice in preparing and serving groups with ordinary home and laboratory equipment.

NUTRITION AND DIETETICS

333. Elementary Nutrition and Food Selection. Cr. 3. I.

Prerequisite: Sophomore standing or above. Fundamental principles of nutrition and the relation of food selection to health. Emphasis is placed on the planning of dietaries to meet the individual requirement and the selection of foods from the standpoint of economics and physical efficiency. Open to men and women not registered in the Department of Foods and Nutrition.

334. Dietetics. Cr. 3, (2-3). I, II.

Prerequisite: Foods 131-2, Chem. 131-2, Zool. 235-6. The essentials of an adequate diet. The food requirements of persons of different ages and the nutritive values of common food materials. Experimental work with laboratory animals.

431. Nutrition in Disease. Cr. 3. II.
Prerequisite: Nutrition 432 or parallel. Adaptations of diet to disorders of nutrition. Specific diseases, the prevention and care of which are largely influenced by diet.

432. Nutrition. Cr. 3, (2-3). I, II.
Prerequisite: Nutrition 334, Chem. 341, or Chem. 343-4. Nutritive requirements from infancy to old age. Emphasis upon the functions of the dietary essentials, and the relation of the chemistry and physiology of digestion to those essentials. Survey of current literature.

433. Nutrition Work with Children. Cr. 3, (1-6). I.
Prerequisite: Nutrition 334. A study of the principles of child nutrition; the methods of judging nutrition; the causes and effects of malnutrition; the responsibility of the home, the school, and the community for the improvement of the nutritional status of children. Field work dealing with problems of child nutrition is required.

531-2. Investigations in Foods and Nutrition. Cr. 3, (2-2). I, II.
Prerequisite: Nutrition 432 and graduate standing. Training in laboratory methods of investigation in foods and nutrition. Energy metabolism studies, involving the use of respiration apparatus; animal feeding experiments; dietary studies.

533. Readings in Nutrition. Cr. 3. II.
Prerequisite: Nutrition 432 and graduate standing. A critical study of the recent literature in the field of nutrition. Preparation and presentation of reports on selected topics. The purpose of the course is to acquaint students with recent researches in nutrition. May be repeated for full credit.

534. Techniques of Research. Cr. 3. I, II.
Prerequisite: Graduate standing and consent of the head of the department. Registration in this course enables the graduate student to carry on such research as will qualify for a required master's thesis.

535. Thesis. I, II.
Prerequisite: Nutrition 534, graduate standing, and consent of the head of the department. The number of credit hours determined by the amount, nature, and character of work done.

Courses in this department which may be taken for graduate credit are: Nutrition 421, 432, 433, 531-2, 533, 534, 535; also Foods 331, 333, 335, and 433 if properly petitioned for in advance and provided an additional problem is done in each course numbered 300 and 400.

DEPARTMENT OF INSTITUTIONAL MANAGEMENT

PROFESSOR CRADDOCK.

The curriculum in the Department of Institutional Management is planned for those students who desire training for such positions as managers of lunchrooms, or dietitians in hospitals or other institutions. The curriculum in Foods and Nutrition should be followed, the students selecting the Institutional Management option in the junior and senior years.

431. Catering. Cr. 3, (1-6). II.
Formerly Foods 431. Prerequisite: Junior or senior standing and completion of foods courses satisfactory to instructor. Consideration of food service to the public as a possible profession. Food preparation in service for special occasions.

432. Large Quantity Cookery. Cr. 3, (1-6). I.
Prerequisite: Foods 232 and junior standing. A study of menu making, preparation of food in large quantity cookery, and practical experience in food purchasing.

435. Organization and Administration. Cr. 3, (1-6). I.
Prerequisite: Foods 232 and Institutional Management 432. A study of organization and administrative problems such as time study, employer-employee relationship, budget making, and other factors leading to the establishment of standards for effective management of institutions.

436. Institutional Housekeeping. Cr. 3, (1-6). II.
Prerequisite: Junior standing. Problems in the selection, operation, and arrangement of institutional household equipment. The cleaning and care of the building, sanitation, plumbing, ventilation, etc.

DEPARTMENT OF VOCATIONAL HOME ECONOMICS EDUCATION

PROFESSORS JOHNSON, ERWIN. ASSISTANT PROFESSORS
ILSE WOLF, CLEWELL. INSTRUCTOR BOWLES.

The curriculum in the Department of Home Economics Education is planned to meet the requirements for the Vocational Certificate of Approval and the Permanent Teachers Certificate in Home Economics; it also meets the requirements for the six-year high school certificate.

In order to obtain the Vocational Certificate of Approval, certain courses are required which are not required in the general Home Economics major or in the other majors offered by the Home Economics Division. For this reason four additional hours are required for graduation with this major. This means that unless a student is an "A" student, she should take four years and a summer to complete the course.

Candidates for a Vocational Certificate of Approval must also have had some actual homemaking experience. Plans for this experience should be made early in the course. A statement concerning them must be filed in the office of the Dean of Home Economics at or before the beginning of the senior year.

331. Methods in Vocational Home Economics. Cr. 3. I, II.

Prerequisite: Junior standing, with 24 semester hours of H. E. courses and 67 grade points; Education 234 or parallel. History and present status of Vocational Home Economics in all day, part-time, and evening schools in the United States. Study of the Texas State Plan, the summer program, and the enriched homemaking program with emphasis on home experiences and extra class duties of the homemaking teacher, and community programs.

411. Home Economics Lectures. Cr. 1. II.

Prerequisite: Senior standing in Home Economics. Reports and discussions on assigned topics based on recent literature and research.

412. Home Experiences in the Homemaking Program. Cr. 1. S.

Prerequisite: Senior standing in Home Economics. Study and discussion of methods used in directing home experiences in the home situation, of the scope and organization of the vocational homemaking program and the summer program. Designed for Vocational Home Economics seniors and graduate students who have not had H. E. Ed. 331.

431. Methods of Teaching Home Economics. Cr. 3. I, II.

Prerequisite: Ed. 234, H. E. Ed. 331, senior standing, 100 semester hours, and ninety grade points. Problems involved in teaching home economics in the public schools. Study of the homemaking program in the high school; planning lessons; collection and organization of teaching material; methods of testing instruction; teaching aids; equipment; business management.

432. Problems in Teaching Clothing. Cr. 3. II.

Prerequisite: H. E. Ed. 431; Cloth. 232, 321, 333, 431: senior standing. Methods used in teaching clothing. Demonstrations and projects. Preparation of illustrative material, scales, exhibits.

434. Methods of Teaching Art in the Homemaking Curriculum. Cr. 3. S.

Prerequisite: H. E. Ed. 431. Problems involved in teaching related art in the high school homemaking program. Texas State Course of Study in Home Economics used as a basis for problems. Organization of teaching materials in all phases of related art; teaching aids; illustrative material; and methods of presentation of subject matter.

435. Methods for Leadership of Adults and Out-of-School Youth. Cr. 3. II.

Prerequisite: Senior standing. Organizing and developing homemaking programs for adults and out-of-school youth, based on the program of federal agencies for the improvement of home and family life.

441. Student Teaching in Home Economics. Cr. 4, (1-9). I, II.

Prerequisite: H. E. Ed. 431; at least 102 grade points exclusive of physical education. Supervised observation and teaching in the Lubbock, Slaton, and Frenship high schools.

531. Improvement of Techniques in Home Economics Teaching. Cr. 3. S.

Prerequisite: Graduate standing and recent experience in teaching home economics in high school. Special instruction in the problem method; methods of teaching home economics to adult women, to boys, and to students below the eighth grade; opportunity to work out specific problems of the individual teacher.

532. The Development of the Homemaking Program. Cr. 3. S, II.

Prerequisite: Graduate standing. Philosophy and development of the home economics movement; the curriculum; major trends in the field; evaluation and use of home economics literature; administrative problems involved in developing the program.

534. Techniques of Research. Cr. 3.

I, II.

Prerequisite: Graduate standing and consent of the head of the department. Registration in this course enables the graduate student to carry on such research as will qualify for a required master's thesis.

535. Thesis. Cr. 3.

I, II.

Prerequisite: H. E. Ed. 534, graduate standing, and consent of the head of the department. The number of credit hours determined by the amount, nature, and character of work done.

536. Problems. Cr. 3.

S.

Prerequisite: Senior standing; H. E. Ed. 431 and H. E. Ed. 441. Study and discussion of problems in the field of special interest to the individual student and class. The content will vary with the needs and interests of the group.

All courses in this department may be taken for graduate credit if properly petitioned for in advance and provided an additional problem is done in each course numbered 300 and 400.

DEPARTMENT OF HOME MANAGEMENT

PROFESSOR WEEKS, ASSISTANT PROFESSOR HITTLE.

The Department of Home Management aims to give students an appreciation of the value of good management in the various phases of home life, as well as to provide means of developing skill in homemaking activities. The courses are open to students in the College who have completed the prerequisites. Residence in the Home Management House gives opportunity for securing experiences in the managerial and social problems of homemaking.

331. Household Management. Cr. 3, (2-3).

I.

Prerequisite: Junior or senior standing in Home Economics. Organization of household activities to save time and energy. Finance management, house care, laundering, and home safety.

432. Residence in Home Management House. Cr. 3.

I, II.

Prerequisite: H. Mgt. 331; twelve hours in Foods and Nutrition. Living in Home Management House for six weeks under supervision. Food preparation and service, house-keeping, household finances, hospitality, and group relationship studied and put into practice. Students pay a fixed sum for room and board.

433. Housing and Household Equipment. Cr. 3, (2-3).

II.

Prerequisite: Home Mgt. 331 and senior standing. A study of housing conditions as they affect health, social life, and financial status of the family; community organizations promoting better living. Selection, operation, and care of equipment. Various household problems.

434. Consumer Education. Cr. 3.

II.

Prerequisite: three to six semester hours in economics, senior standing. A survey of the forces which today affect consumer choices. Development of practical principles for better buying and use of household commodities. Evaluation of agencies concerned with this movement. Recent findings in consumer income and consumer purchasing studies applied to every day living.

Courses in this department which may be taken for graduate credit are: H. Mgt. 432, 433, and 434, if properly petitioned for in advance and provided an additional problem is done in each case.

HOME ECONOMICS ORIENTATION

111. Orientation for Home Economics Students. Cr. 1.

I.

The basic course for all future courses in the Division of Home Economics. The units offered include: (a) the relationship of the student with her college; (b) the development of right habits of study; (c) student budgets of time and money; (d) simple vocational guidance. Required of all freshman Home Economics students.

DIVISION OF ARTS AND SCIENCES

JAMES M. GORDON, DEAN

ALBERT BARNETT, ASSISTANT DEAN

The Division of Arts and Sciences has two important functions in Texas Technological College:

First, the Division of Arts and Sciences offers degree courses in the Departments of Biology, Business Administration, Chemistry, Economics, Education and Psychology, English, Foreign Languages, Geology, Government, History, Journalism, Mathematics, Music, Philosophy, Physical Education, Physics, Sociology, and Speech.

Second, the Division of Arts and Sciences serves as a subject matter division for all divisions of the institution. No matter what curriculum a student may select, whether it be in Agriculture, Engineering, Home Economics, business administration, a science, or any other major, he takes some of the fundamental subjects such as English, mathematics, history, economics, physics, foreign languages, speech, and journalism as foundation courses.

Undergraduate Degrees. In the Division of Arts and Sciences work is offered leading to four undergraduate degrees: Bachelor of Arts, Bachelor of Science, Bachelor of Business Administration, and Bachelor of Science in Education.

Master's Degrees. In addition to work offered for undergraduate degrees, the Division of Arts and Sciences gives graduate work in certain departments leading to these degrees: Master of Arts, Master of Science, and Master of Education. Discussion of graduate work, including admission, divisions and departments offering graduate work, and graduate degrees given, will be found in this catalogue under the **Division of Graduate Studies**.

Pre-Professional Curricula. In addition to the curricula leading regularly to a degree in the Division of Arts and Sciences, certain pre-professional curricula are offered. Some of these may lead to degrees in Texas Technological College. These are curricula for Pre-law and Pre-medical students as listed in the pages following.

Graduates of high schools fully accredited by the State Department of Education of Texas who have not met in full the specific subject requirements as outlined under **Admission Requirements**, may be admitted to the to the freshman class of this division. Such students will be assigned to the faculty committee on guidance. The committee, after studying the student's high school transcript and conferring with him as to his interests, abilities, and plans in college, will recommend a freshman assignment. This assignment when approved by the dean of the chosen division will become the student's program.

Admission. The work in the freshman year is planned to follow graduation from a regularly accredited four-year high school with a minimum of fifteen affiliated units. For details of admission requirements see the general discussion in this catalogue under the subject of **Admission**.

Requirements for Graduation. The completion of the work for a degree usually requires four years. During the first two years the student is expected to complete the minimum requirements for the specific degree. Only for exceptional reasons, and then only with approval of his dean, may a student postpone the freshman and sophomore requirements beyond his sophomore year. The work of the junior and senior years varies according to the degree sought and is discussed under the curriculum requirements set up for each degree.

THE BACHELOR OF ARTS DEGREE

The Bachelor of Arts degree is planned for persons who are interested in a general college course and aims to provide the fundamentals of a liberal education. It proposes to furnish general experience in the humanities, the physical and biological sciences, and the social sciences and has for its ob-

jective liberal culture. It aims also to give a foundation for graduate study and research.

For the Bachelor of Arts degree 128 semester hours are required, including physical education, together with the required number of grade points.

The minimum residence requirements for graduation are two semesters' work and thirty semester hours credit. If only one year is spent in residence, it should be the last year. Further information relative to credits allowed for courses taken in other colleges may be found under Admission.

CURRICULUM FOR THE DEGREE OF BACHELOR OF ARTS

The curriculum below is to be used for all Arts and Sciences students except in cases where they are following a definitely required curriculum. Advisers to students of this group will endeavor to adapt this curriculum for the freshman and sophomore years to the individual student in terms of his high school transcript, his interests, and the policies expressed in the footnotes below.

Freshman Year

For all freshmen except pre-law or pre-medical students and those carrying a major in music.****

	Semester hours	
	Sem. I	Sem. II
English 131-2. Freshman Composition	3	3
A foreign language	3	3
A natural science	3	3
History 131-2. History of Civilization	3	3
*Six hours in mathematics:		
Math. 130. Algebra	3	.....
Math. 131. Trigonometry .....	.....	3
or		
Math. 137. Commercial Algebra		
Math. 138. Mathematics of Finance		
Orient. 111. Orientation	1	.....
Orient. 112. Orientation (elective) .....	.....	1
Physical Training or Band 111-2	1	1
	17	17

Sophomore Year

For all sophomores except pre-law or pre-medical students and those carrying a major in journalism, economics, or music.

English 231-2. Introduction to Literature	3	3
**The foreign language begun in the freshman year	3	3
Govt. 131-2. American Government, National and State	3	3
***A natural science	3	3
Psychology 230, and Philosophy 330 or Sociology 330; or		
six hours of a social science above the freshman year	3	3
Physical Training or Band 211-2	1	1
	16	16

*If three and a half units of mathematics including algebra, plane geometry, and plane trigonometry are accepted for admission, no further courses in mathematics are required. If three units are accepted, Math. 130 or 131 or 137 is required; if only two units are accepted, Math. 130 and 131 or 137 and 138 are required.

**If three or more units in a foreign language are accepted for admission, one year in college of the same language (a 300 course or above) will absolve the foreign language requirement. If no admission units in a foreign language are accepted, three years or eighteen semester hours in college are required for graduation.

***If two or more units of laboratory science, biological or physical or both, are accepted for admission, one year of a laboratory science in college will absolve the natural science requirement. If two years are required in college, they cannot both be offered in the same subject.

****Required curricula varying from uniform freshman and sophomore years presented above are those for pre-law students, pre-medical students, and for students carrying the journalism major, or the major in economics, or the major in music.

The Junior and Senior Years. The student will be expected to select a major and a minor subject by the time he reaches his junior year. For his major subject he will be required to complete 24 semester hours in addition to the minimum degree requirements in that subject. Of these 24 hours, eighteen hours must be courses of junior and senior rank. For his minor, he will complete a minimum of eighteen semester hours, at least six of which must be advanced.

In the case of a subject offered as a major in which no specific courses are included in the uniform requirements for a degree, a minimum of thirty semester hours must be completed in the major subject. In counting the number of hours for major subjects, no part of a continuous course will be counted until the entire course has been completed. At the option of the department head, no grade lower than C may be counted in the number of semester hours required in the major. The courses in the major subject must be approved by the head of the department.

Not more than 42 semester hours in one subject may be counted in the requirements for the Bachelor of Arts degree; not more than twelve hours in Biblical History and Literature may be counted, nor more than eight hours in music, except for those offering music as a major or minor. A maximum of 24 semester hours may be offered for the Bachelor of Arts degree as electives in the technical or professional subjects of Agriculture, Business Administration, Education, Engineering, and Home Economics.

The minimum requirements for the degree of Bachelor of Arts are as follows:

	Semester hours
1. English	12
2. A foreign language	12*
3. Mathematics	3 or 6*
4. Government 131-2 or its equivalent	6
5. History 131-2 or its equivalent	6
6. Psychology 230, and Philosophy 330 or Sociology 330; or six hours of a social science above the freshman year	6
7. Laboratory science	6 or 12*
8. Orientation	1 or 2
9. Physical Training or Band (a maximum of four one-hour courses)	4
10. Major, minor, and electives to total 128 semester hours.	

Government Required of All Students

Attention is called to the fact that by legislative enactment a minimum of six semester hours of American Government, National and State, or both, is required of any person who is graduated from a state-supported college; consequently, there must be included in each curriculum a minimum of six semester hours of government.

PRE-PROFESSIONAL CURRICULA

Most professional schools require a certain amount of college work for entrance. This amount varies from one to three years. These pre-professional curricula are designed to prepare students for study in various professional fields including law, medicine, dentistry, and pharmacy.

*See notes at bottom of page 143.

STUDIES PREPARATORY TO LAW

The minimum requirements for admission to any standard law school are fifteen entrance units as prescribed by the Division of Arts and Sciences, and two full years (sixty semester hours) of college work.

The following curriculum is recommended for students who contemplate the study of law:

CURRICULUM FOR PRE-LAW STUDENTS

Semester hours
Sem. I Sem. II

Freshman Year

Eng. 131-2. Freshman Composition	3	3
Hist. 133-4. Economic and Political History of England	3	3
Govt. 131-2. American Government, National and State	3	3
*Six hours in mathematics		
Math. 130. Algebra	3	.....
Math. 131. Trigonometry		3
or		
Math. 137. Commercial Algebra		
Math. 138. Mathematics of Finance		
A natural science	3	3
Orient. 111. Orientation	1	.....
Orient. 112. Orientation (elective)		1
Physical Training or Band 111-2	1	1
	17	17

Sophomore Year

Eng. 231-2. Introduction to Literature	3	3
Hist. 231-2. Economic and Political History of the United States	3	3
Govt. 231. Introduction to Political Science	3	.....
Govt. 232. Modern Governments		3
Eco. 231-2. Principles of Economics	3	3
B. A. 244-5. Introduction to Accounting	4	4
Physical Training or Band 211-2	1	1
	17	17

Junior Year

If a student desires to take a third year of work preparatory to the study of law, which is advisable, the work should be selected mainly from the social science group and should include psychology and philosophy.

The Degree of Bachelor Of Arts For Pre-Law Students

Pre-law students may obtain the Bachelor of Arts degree from Texas Technological College upon the completion of three years of work in the Division of Arts and Sciences of this College and three years of work in a standard law school.

The three years' work in Texas Technological College must satisfy all graduation requirements for the Bachelor of Arts degree with the exception of the major subject. See minimum requirements for the Bachelor of Arts degree.

Professor H. C. Pender, Acting Head of the Department of Government, is the adviser for pre-law students.

STUDIES PREPARATORY TO MEDICINE

The minimum requirements for admission to any standard medical school are fifteen entrance units, as prescribed by the Division of Arts and Sciences, and a minimum of two full years of selected college work. The Medical School of the University of Texas requires three years of college work. The following course of study is set up for students who plan to study medicine:

CURRICULUM FOR PRE-MEDICAL STUDENTS*

Semester hours
Sem. I Sem. II

Freshman Year

Chem. 131-2. General Chemistry	3	3
Zool. 131-2. General Zoology, or Biology 131-2. Natural History of Plants and Animals	3	3
Eng. 131-2. Freshman Composition	3	3
German 131-2. A Beginning Course in German or French 131-2. A Beginning Course in French	3	3
Hist. 131-2. History of Civilization	3	3
Orient. 111. Orientation	1	.....
Orient. 112. Orientation (elective) .....	.....	1
Physical Training or Band 111-2	1	1
	17	17

Sophomore Year

Chem. 220. Qualitative Analysis	2	.....
Chem. 242. Inorganic Chemistry .....	.....	4
Zool. 231-2. Vertebrate Anatomy	3	3
Physics 141-2. General Physics	4	4
Eng. 231-2. Introduction to Literature	3	3
The foreign language begun in the freshman year	3	3
Physical Training or Band 211-2	1	1
	16	18

Junior Year

Chem. 343-4. Organic Chemistry	4	4
Chem. 331-2. Quantitative Analysis	3	3
Zool. 331-2. Animal Histology and Embryology or Bact. 331-2. General Bacteriology	3	3
Govt. 339-10. American Government, National and State	3	3
Electives	3	3
	16	16

The Degree Of Bachelor Of Arts For Pre-Medical Students. The degree of Bachelor of Arts for pre-medical students may be obtained in one of two ways:

A. While in residence at Texas Technological College by completing the requirements outlined in this catalogue. Pre-medical students will probably select Chemistry or Zoology as their major subject; therefore, their junior and senior years are outlined accordingly. Pre-medical students are advised to take as many courses in these departments as possible.

*Students preparing for the study of dentistry or pharmacy also pursue this curriculum.

Senior Year. A sufficient number of courses in the major department to complete the major requirement and all other required courses in other departments, not previously taken, should be taken, together with sufficient electives to bring the total to 128 semester hours credit.

Chemistry Major. In addition to the courses outlined above, those students who complete their major requirements in the Department of Chemistry should take Chem. 411-2 and either 430 or 434, and Bact. 331-2. Chem. 441-2 may be substituted for an equivalent amount of any of the above courses except Chem. 411-2 by those students who have completed the mathematics requirement.

Zoology Major. In addition to the courses outlined above under their respective years, students who complete their major requirement in Zoology should take Biol. 231, Biol. 411-2, Bact. 331-2, and Zool. 431-2.

B. By completing three years of work in the Division of Arts and Sciences, totaling a minimum of 100 semester hours, and two years in a class A medical college.

1. Of the three years of pre-medical work, at least the junior year must be completed in residence at Texas Technological College. This minimum will apply to transfers from other colleges, provided they have satisfactorily completed the work outlined in the freshman and sophomore years or its equivalent.

2. The three years' work must satisfy all graduation requirements for the Bachelor of Arts degree in Texas Technological College, with the exception of the major subject.

3. Submission of properly approved credentials from a Class A medical college to the effect that the applicant has completed satisfactorily the first two years of work leading to the degree of Doctor of Medicine.

Dr. R. C. Goodwin, Head of the Department of Chemistry and Chemical Engineering, is the adviser for pre-medical students. Each pre-medical student should consult with him during each registration period.

NOTE: The medical aptitude tests, sponsored by the Association of American Medical Colleges, may be taken at Texas Technological College.

CURRICULUM FOR THE DEGREE OF BACHELOR OF ARTS

JOURNALISM MAJOR

Semester hours
Sem. I Sem. II

For Uniform Freshman Year See Page 143

Sophomore Year

Eng. 231-2. Introduction to Literature	3	3
Govt. 131-2. American Government, National and State	3	3
Journalism 231-2. Newspaper Reporting and Writing	3	3
*A natural science	3	3
*The foreign language begun in the freshman year	3	3
Physical Training or Band 211-2	1	1
	16	16

Junior Year

Journalism 335. History of American Journalism	3	3
Journalism 336-7. Advanced Reporting	3	3
Elective in journalism	3	.....
Eco. 231-2. Principles of Economics	3	3
Approved electives in English	3	3
Phil. 330. Introduction to Philosophy		
or		
Psy. 230. Introduction to Psychology	3	3
Electives (to be approved)	4	1
	16	16

Senior Year

Journalism 434. Editorial Writing, or Journalism 333. Problems of the Community Newspaper	3	.....
Journalism 430. Principles of Journalism	3	3
Electives in journalism	6	6
Electives (to be approved)	6	6
	15	15

*See notes at bottom of page 143.

Note: Students who have not had typewriting in high school must take at least one semester in college without college credit.

Whenever a student's high school record permits an option, he may take Gov't. 131-2 and Hist. 131-2, the freshman year; Eco. 231-2, the sophomore year.

CURRICULUM FOR THE DEGREE OF BACHELOR OF ARTS

ECONOMICS MAJOR

For Uniform Freshman Year See Page 143

Semester hours
Sem. I Sem. II

Sophomore Year

Eco. 231-2. Principles of Economics	3	3
Eco. 234. Economic Development of the United States	3	3
Eng. 231-2. Introduction to Literature	3	3
The foreign language begun in the freshman year	3	3
Govt. 131-2. American Government, National and State	3	3
Elective in economics or business administration (to be approved)	3	.....
Physical Training or Band 211-2	1	1
	16	16

Junior Year

B. A. 330. Principles of Finance	3	.....
B. A. 332. Principles of Marketing	3	.....
Psychology 230, and Philosophy 330 or Sociology 330; or six hours of a social science above the freshman year	3	3
Speech 131. Fundamentals of Speech, or		
Speech 331. Business Speech	3	3
Electives in economics or business administration (to be approved)	3	3
Electives (to be approved from other departments)	6	3
	15	15

Senior Year

Eco. 411. Seminar in Economics and Business Administration	1	.....
Eco. 430. Research in Economics and Business Administration	3	.....
Eco. 434. Economic Systems	3	.....
Eco. 436. Economic Theory	3	3
Electives in economics or business administration (to be approved)	3	3
Electives (to be approved)	7	9
	16	16

CURRICULUM FOR THE DEGREE OF BACHELOR OF ARTS

MUSIC MAJOR

Semester hours
Sem. I Sem. II

Freshman Year

English 131-2. Freshman Composition	3	3
*A foreign language	3	3
Music 121-2. Solfeggio	2	2
Music 123-4. Harmony	2	2
Music 125-6. Applied Music	2	2
*Six hours in mathematics	3	3
Math. 130. Algebra		
Math. 131. Trigonometry		
or		
Math. 137. Commercial Algebra		
Math. 138. Mathematics of Finance		
or		
History 131-2. History of Civilization		
Orient. 111. Orientation	1	.....
P. E. 113-4. Physical Training	1	1
	17	16

Sophomore Year

English 231-2. Introduction to Literature	3	3
*The foreign language begun in the freshman year	3	3
Music 221-2. Solfeggio	2	2
Music 223-4. Harmony	2	2
Music 225-6. Applied Music	2	2
*A natural science	3	3
P. E. 213-4. Physical Training	1	1
	16	16

Junior and Senior Years

Govt. 339-10. American Government, National and State	6	
Psychology 230, and Philosophy 330 or Sociology 330; or six hours of a social science above the freshman year	6	
History 131-2. History of Civilization or *Mathematics	6	
*A natural science	6	
Music (to be outlined by department head)	18	
Minor and electives to total 128 semester hours	21	
	63	

In the freshman and sophomore years several of the basic courses for the Bachelor of Arts degree are omitted. This is done to enable the student who wishes this degree with a music major to give considerable time to music in the freshman and sophomore years. It is strongly urged that students electing the Bachelor of Arts degree with the music major spend at least one summer in college and take some of the basic subjects for the regular Bachelor of Arts degree. On pages 143 to 144 a full discussion is given, including major and minor requirements for the Bachelor of Arts degree. All these requirements must be met. Furthermore, the Music Department strongly urges that the work of the freshman year be limited to thirteen or fourteen hours a semester because of the necessary amount of laboratory hours required in the applied music branches.

*See notes at bottom of page 143.

THE BACHELOR OF SCIENCE DEGREE

Certain students are definitely interested in the sciences. For such students the curriculum leading to the degree of Bachelor of Science has been arranged. In order to give time for a better understanding upon which to base the choice of a major, a uniform curriculum for the freshman year is outlined for all freshmen candidates for the Bachelor of Science degree. If possible, the student should choose as his major science one of the required sciences of his freshman year.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE

Uniform Freshman Year

	Semester hours	
	Sem. I	Sem. II
Two courses in science to be chosen from the following	6	6
*Biology 131-2. Natural History of Plants and Animals		
*Botany 131-2. General Botany		
*Zoology 131-2. General Zoology		
Chemistry 131-2. General Chemistry		
Geology 131-2. General Geology		
Physics 131-2. Elements of College Physics		
English 131-2. Freshman Composition	3	3
A foreign language	3	3
Mathematics 130. Algebra	3	
Mathematics 131. Trigonometry		3
Orient. 111. Orientation	1	
Orient. 112. Orientation (elective)		1
Physical Training or Band 111-2	1	1
	17	17

The sophomore, junior, and senior years follow definite majors which depend upon the departmental requirements and are outlined separately by the respective departments.

The general requirements for the degree, as they relate to any of the laboratory sciences, are as follows:

	Semester hours
1. English	12
2. A foreign language	12
3. Mathematics	6
4. Economics or Business Administration	6
5. Government	6
6. Orientation	1 or 2
7. Physical Training or Band (a maximum of four one-hour courses)	4

8. Additional courses to make a total of 130 semester hours as a minimum, of which at least 72 semester hours are to be completed in the Departments of Biology, Chemistry, Geology, and Physics—at least six semester hours in each department. Students with their majors in Chemistry or Physics, however, may substitute six semester hours of mathematics for six semester hours of a science elective.

9. The major and minor requirements may be met in either of two ways: (1) at least 36 semester hours in any one of the above named sciences shall constitute a major, and no specific minor will be required. The proper sequence, gradation, and number of courses will be left to the department in which the major is taken. (2) At least 24 semester hours above the freshman course may be taken in any one department for a major. In this case a minor consisting of a minimum of twelve semester hours above the freshman course must be taken in a second science.

In either event all electives in any curriculum are to be approved by the head of the department in which the student seeks his degree.

*Only one to be selected. Biology is suggested for most students.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE

BOTANY MAJOR

For Uniform Freshman Year See Page 151

Semester hours
Sem. I Sem. II

Sophomore Year

Bot. 231. Morphology of Higher Plants	3	.....
Bot. 232. Taxonomy of Higher Plants .....	.....	3
Science—courses in the two science departments not represented in the freshman year	6	6
Eng. 231-2. Introduction to Literature	3	3
The foreign language begun in the freshman year	3	3
Physical Training or Band 211-2	1	1
	16	16

Junior Year

*Bot. 331. Plant Physiology	3	.....
*Bot. 332. Morphology of Lower Plants .....	.....	3
**Zoology	3	3
Chem. 220. Qualitative Analysis	2	.....
Chem. 343-4. Organic Chemistry	4	4
Elective in economics or business administration	3	3
Electives (to be approved)	1	3
	16	16

Senior Year

*Bot. 431. Botanical Technique	3	.....
*Bot. 432. Advanced Plant Anatomy .....	.....	3
Bact. 331-2. General Bacteriology	3	3
Biol. 411-2. Biology Seminar	1	1
Govt. 339-10. American Government, National and State	3	3
Approved electives in science	3	6
Electives (to be approved)	3	.....
	16	16

*Bot. 333-4 or Bot. 335-6 may, with the consent of the department head, be substituted for either Bot. 331 and 332 or 431 and 432.

**A course above freshman rank, if student has credit for Bio. 131-2; Zool. 131-2, if student has credit for Bot. 131-2.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE**ZOOLOGY MAJOR**

For Uniform Freshman Year See Page 151

Semester hours
Sem. I Sem. II**Sophomore Year**

Zool. 231-2. Vertebrate Anatomy	3	3
Science—courses in the two science departments not represented in the freshman year	6	6
Eng. 231-2. Introduction to Literature	3	3
The foreign language begun in the freshman year	3	3
Physical Training or Band 211-2	1	1
	16	16

Junior Year

Zool. 331-2. Animal Histology and Embryology	3	3
*Botany	3	3
Chem. 220. Qualitative Analysis	2	.....
Chem. 343-4. Organic Chemistry	4	4
Elective in economics or business administration	3	3
Electives (to be approved)	1	3
	16	16

Senior Year

Zool. 431-2. Animal Cytology	3	3
Bact. 331-2. General Bacteriology	3	3
Biol. 411-2. Biology Seminar	1	1
Govt. 339-10. American Government, National and State	3	3
Approved electives in science	3	6
Electives (to be approved)	3	.....
	16	16

*A course above freshman rank, if student has credit for Biol. 131-2; Bot. 131-2, if student has credit for Zool. 131-2.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE

CHEMISTRY MAJOR

For Uniform Freshman Year See Page 151

Semester hours
Sem. I Sem. II

Sophomore Year

Science—courses in the two science departments not represented in the freshman year	6	6
*Chem. 220. Qualitative Analysis	2	.....
Chem. 242. Inorganic Chemistry .....	.....	4
Math. 235-6. Analytic Geometry	3	3
Eng. 231-2. Introduction to Literature or		
The foreign language begun in the freshman year	3	3
Physical Training or Band 211-2	1	1
	15	17

Junior Year

Chem. 331-2. Quantitative Analysis	3	3
Chem. 343-4. Organic Chemistry	4	4
Math. 335-6. Differential and Integral Calculus	3	3
The foreign language begun in the freshman year or		
Eng. 231-2. Introduction to Literature	3	3
Elective in physics	3	3
	16	16

Senior Year

Chem. 441-2. Physical Chemistry	4	4
Chem. 411-2. Seminar	1	1
Elective in chemistry from the following:	3	.....
Chem. 435. Advanced Quantitative Analysis		
Chem. 436. Biological Chemistry		
Chem. 437. Qualitative Microanalysis		
Chem. 438. Advanced Physical Chemistry		
Elective in economics or business administration	3	3
Govt. 339-10. American Government, National and State	3	3
Electives in science	3	4
	17	15

*If Chem. 131-2 was not taken in the freshman year, it should be taken in the sophomore year. The sequence of courses in chemistry will then be different.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE

GEOLOGY MAJOR

For Uniform Freshman Year See Page 151

Semester hours
Sem. I Sem. II

Sophomore Year

*Geol. 231. Mineralogy	3	.....
*Geol. 235. Elementary Structural Geology	3	.....
Science—courses in the two science departments not represented in the freshman year	6	6
Eng. 231-2. Introduction to Literature	3	3
The foreign language begun in the freshman year	3	3
Physical Training or Band 211-2	1	1
	16	16

Summer

**Geol. 363. Field Geology (Summer)	6	
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Junior Year

Geol. 333. Petrology: Optical Mineralogy	3
Geol. 334. Petrology: Descriptive	3	3
Geol. 335-6. General Paleontology	3	3
Elective in science	3	3
Eco. 231-2. Principles of Economics	3	3
Govt. 339-10. American Government, National and State	3	3
	15	15

Senior Year

Geol. 411-2. Geology of Texas	1	1
Geol. 413-4. Seminar	1	1
Geol. 431-2. Advanced General Geology	3	3
Geol. 433. Structural Geology	3	.....
Geol. 434. Petroleum Geology	3	3
Geol. 435. Index Fossils	3	.....
Geol. 436. Micropaleontology	3	3
Electives	3	3
***Elective in science	3	.....
	17	14

*If geology was not begun in the freshman year, the student will substitute Geol. 131-2 and register for additional work in Geology during his junior year.

**May be taken any summer after the proper prerequisites have been met. May be used as a junior or senior elective.

***Either semester.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE

PHYSICS MAJOR

For Uniform Freshman Year See Page 151

Semester hours
Sem. I Sem. II

Sophomore Year

Phys. 215-6. Physical Measurements	1	1
Phys. 235-6. Engineering Physics	3	3
Science—courses in the two science departments not represented in the freshman year	6	6
Math. 235-6. Analytic Geometry	3	3
The foreign language begun in the freshman year	3	3
Physical Training or Band 211-2	1	1
	<hr/>	<hr/>
	17	17

Junior Year

Phys. 331. Light	3	.....
Phys. 332. Heat .....	.....	3
Phys. 333-4. Electricity and Magnetism	3	3
Math. 335-6. Differential and Integral Calculus	3	3
C. E. 331. Applied Mechanics—Statics .....	.....	3
Eng. 231-2. Introduction to Literature	3	3
Electives	3	3
	<hr/>	<hr/>
	15	18

Senior Year

Phys. 423-4. Electrical Measurements	2	2
Phys. 435-6. Introduction to Modern Physics	3	3
Phys. 411-2. or Phys. 413-4. Physics Seminar	1	1
C. E. 332. Applied Mechanics—Kinematics and Kinetics	3	.....
Elective in science	3	3
Govt. 339-10. American Government, National and State	3	3
Elective in economics .....	.....	3
Elective .....	.....	1
	<hr/>	<hr/>
	15	16

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE

MATHEMATICS MAJOR

For Uniform Freshman Year See Page 151

Semester hours
Sem. I Sem. II

Sophomore Year

Math. 235-6. Analytic Geometry	3	3
Eng. 231-2. Introduction to Literature	3	3
The foreign language begun in the freshman year	3	3
*Physics	3	3
Science—course from one of the two science departments not represented in the freshman year	3	3
Physical Training or Band 211-2	1	1
	16	16

Junior Year

Math. 335-6. Differential and Integral Calculus	3	3
Math. 333-4. Advanced Algebra	3	3
Phil. 337. Logic	3	3
C. E. 331. Applied Mechanics—Statics	3	3
Astron. 131-2. General Astronomy	3	3
Govt. 339-10. American Government, National and State	3	3
Elective in science	3	3
Elective (to be approved)	1	1
	16	18

Senior Year

Math. 431. Advanced Calculus	3	3
Math. 432. Differential Equations	3	3
Math. 433. Theory of Equations	3	3
Math. 438. Solid Analytic Geometry	3	3
C. E. 332. Applied Mechanics, Kinematics and Kinetics	3	3
Eco. 231-2. Principles of Economics	3	3
Elective in science	3	3
Electives (to be approved)	3	3
	15	15

*If physics was not begun in the freshman year, the student will be required to complete two years of physics. The sequence of courses will then be different.

CURRICULUM FOR THE DEGREE OF BACHELOR OF BUSINESS ADMINISTRATION

	Semester hours	
	Sem. I	Sem. II
Uniform Freshman Year		
B. A. 121. Typewriting	2	.....
B. A. 131. Introduction to Business Administration	3	3
Eng. 131-2. Freshman Composition	3	3
Math. 137. Commercial Algebra	3	.....
Math. 138. Mathematics of Finance	3	3
History 131-2. History of Civilization	3	3
A natural science	3	3
Orient. 111. Orientation	1	.....
Physical Training or Band 111-2	1	1
	16	16

B. A. 121 and B. A. 131 will be taken alternately. About one-half of the students will take each course each semester. Students who had no typewriting in high school will take B. A. 111 the first semester.

Uniform Sophomore Year		
Eco. 231-2. Principles of Economics	3	3
B. A. 244-5. Introduction to Accounting	4	4
Eco. 234. Economic Development of U. S.	3	3
Eng. 231-2. Introduction to Literature	3	3
Govt. 131-2. American Government, National and State	3	3
Elective (to be approved)	3	.....
Physical Training or Band 211-2	1	1
	17	17

Suggested Electives:

for Marketing, Psy. 230
for Accounting, Math. 338
for Sec. Mgt., B. A. 231-2

for Pub. Adm., Geog. 331
for Teaching Commercial, Psy. 231

REQUIRED COURSES IN JUNIOR AND SENIOR YEARS

B. A. 334-5. Business Law.
B. A. 332. Principles of Marketing.
B. A. 330. Principles of Finance.
Speech. 331. Business Speech.
Eng. 3311. English in Business Practice.
B. A. 3311. Business Statistics.
Eco. 411. Seminar in Economics and Business.
Eco. 430. Research in Economics and Business.
Sufficient approved electives to complete 128 hours including the following required courses arranged by possible majors.

REQUIRED COURSES BY MAJORS

Accounting:

B. A. 337-8. Intermediate Accounting
Nine hours from B. A. 436, 437, 4310,
4311, 4314, 4316, 4318.

Finance:

B. A. 331. Corporation Finance
B. A. 337-8. Intermediate Accounting
Six hours from B. A. 434, 439; Eco. 331

Marketing and Salesmanship:

B. A. 333. Marketing Problems
Eco. 435. Economic Cycles and Fore-
casting

Psy. 338. Business Psychology

Six hours from B. A. 432, 4312, 4313, 438

General Business:

Courses detailed with student before be-
ginning the second semester of the jun-
ior year.

Industrial Management:

B. A. 336. Industrial Management
Psy. 338. Business Psychology
B. A. 433. Personnel Administration
B. A. 431. Office Management

Public Administration and Public Utilities:

Eco. 332. Public Utility Economics
Eco. 333. Public Finance
Eco. 334. Taxation
Eco. 438. Public Utility Problems
Eco. 439. Public Control of Business

Secretarial Management:

B. A. 339-10. Secretarial Practice
B. A. 411. Supervised Business Practice
B. A. 421. Office Appliances
B. A. 4315. Secretarial Problems
B. A. 431. Office Management

**CURRICULUM FOR THE DEGREE OF BACHELOR
OF BUSINESS ADMINISTRATION**

COTTON MARKETING OPTION

Semester hours
Sem. I Sem. II

Freshman Year

B. A. 121. Typewriting	2	.....
B. A. 131. Introduction to Business Administration		3
Eng. 131-2. Freshman Composition	3	3
Math. 137. Commercial Algebra	3	.....
Math. 138. Mathematics of Finance		3
Botany 131-2. General Botany	3	3
T. E. 231. Textile Fibers and Fabrics	3	.....
T. E. 232. Fabric Dyeing and Maintenance		3
Orient. 111. Orientation	1	.....
Physical Training or Band 111-2	1	1
	16	16

Sophomore Year

Eco. 231-2. Principles of Economics	3	3
B. A. 244-5. Introduction to Accounting	4	4
Eco. 234. Economic Development of U. S.		3
Eng. 231-2. Introduction to Literature	3	3
Govt. 131. American Government, National	3	.....
T. E. 234. Cotton Classing and Marketing	3	.....
T. E. 235. Textile Fibers and Yarn Preparation		3
Physical Training or Band 211-2	1	1
	17	17

Junior Year

B. A. 330. Principles of Finance	3	.....
B. A. 332. Principles of Marketing	3	.....
B. A. 333. Marketing Problems		3
B. A. 334-5. Business Law	3	3
Eng. 3311. English in Business Practice	3	.....
Speech 331. Business Speech		3
Govt. 132. American Government, State		3
T. E. 331-2. Yarn Manufacture	3	3
Electives (to be approved)		3
B. A. 3311. Business Statistics	3	.....
	18	18

Senior Year

Eco. 411. Seminar in Economics and Business		1
Eco. 430. Research in Economics and Business	3	.....
Eco. 433. International Economic Problems and Foreign Trade		3
B. A. 4312. Salesmanship	3	.....
Agronomy 421. Cotton and Other Fiber Crops.		2
Ag. Eco. 322. Marketing Agricultural Products	2	.....
Ag. Eco. 422. Agricultural Prices and Forecasting		2
T. E. 425. Cotton Classing and Marketing		2
Three hours from Clothing and Textiles 431, 432, 436, 437		3
Electives (to be approved)	8	3
	16	16

THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION

The degree of Bachelor of Science in Education is set up specifically for teachers in order to give definite professional training in their field of work.

The work of the freshman year is largely prescribed.

In the sophomore year the student may choose the particular field of education in which he desires to work. Choice must also be made of the subject-matter field in which he desires to prepare for teaching. The student must also elect a second subject which he may use as a subject-matter minor in his classroom teaching.

During the junior and senior years the student is expected to continue in the field of education, as well as in the subject-matter major and minor fields. The prescribed subjects together with electives total 130 semester hours, with a minimum of 140 grade points.

SUBJECT-MATTER MAJOR AND MINOR REQUIREMENTS

Social Science (history, government, economics, sociology)

Major: 18 hours in one subject, at least 12 advanced; 6 hours each in two other subjects—total, 30.

Minor: 12 hours in one subject, at least 6 advanced; 6 hours in each of two other subjects—total, 24.

General Science

Major: 18 hours in one science, at least 12 above the basic course; 6 hours each in two other sciences—total, 30.

Minor: 12 hours in one science, at least 6 above the basic course; 6 hours each in two other sciences—total, 24.

Foreign Languages

Major: 18 hours in one subject, at least 12 above the basic course; 12 hours in one other subject—total, 30.

Minor: 12 hours in each of two subjects—total, 24.

Primary Education, Elementary Education

Major: 15 hours in materials, methods, and subject-matter employed in the primary (elementary) grades. (This in addition to the 30 hours of education required for this degree.)

Minor: 9 hours, 6 of which must be advanced.

Physical Education

Major: 24 hours, at least 9 advanced.

Minor: 18 hours, at least 6 advanced.

Band

Major: 30 hours (6 of the 30 hours will be in conducting and teaching methods for band).

Minor: 18 hours, 12 in band music; 2 hours in conducting and teaching methods; 4 hours in theory.

Music

Major: Curriculum for Music Major.

Minor: 18 to 24 hours to be outlined by department head.

Teaching-majors and minors in subject-matter fields will be offered in other subjects of the Division of Arts and Sciences, such as English, history, mathematics, speech, and others, as desired by the student. In general, a teaching major requires 24 semester hours, twelve of which must be above sophomore rank; whereas a teaching minor requires a minimum of eighteen semester hours, six of which must be advanced.

The student should not confuse degree requirements in major and minor subjects with the ruling of the Texas State Department of Education. The Texas State Department of Education has ruled that for *certificate* purposes twelve semester hours may be regarded as a teaching minor, and further-

more no one may teach any subject in high school without having had a minimum of twelve semester hours in that subject.

Approval of Subject-Matter Major and Minor

The courses taken by candidates for the degree of Bachelor of Science in Education are to be approved as follows:

1. Subject-matter major to be approved by the head of the department.
2. Social science, general science, and foreign languages to be approved by the head of the department in which the major portion of the work is done.
3. All subject-matters majors and minors to be approved by the Head of the Department of Education, and by the Dean of the Division of Arts and Sciences.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION

	Semester hours	
	Sem. I	Sem. II
Freshman Year		
Ed. 131. Introduction to Education	3	.....
Ed. 132. Classroom Management and Methods .....	.....	3
Eng. 131-2. Freshman Composition	3	3
A natural science or mathematics	3	3
History 131-2. History of Civilization		
or		
Speech. 131-2. Fundamentals of Speech	3	3
Subject-matter major	3	3
Orient. 111. Orientation	1	.....
Orient. 112. Orientation (elective) .....	.....	1
Physical Training or Band 111-2	1	1
	17	17
Sophomore Year		
**Education	3	3
Eng. 231-2. Introduction to Literature	3	3
Zool. 235-6. The Human Body	3	3
or		
*Biology 131-2.		
Govt. 131-2. American Government, National and State	3	3
Subject-matter major	3	3
Physical Training or Band 211-2	1	1
	16	16
Junior and Senior Years		
Psy. 230. Introduction to Psychology	3	
Sociology	3	
Electives in physical education	6	
Subject-matter major	12	
Subject-matter minor	18	
**Education	18	
Electives	4	
	64	

*For students majoring in Elementary Education, Geog. 131-2 may be offered as one of the sciences.

**In the courses in Education there must be included at least two courses in tests and measurements, and at least one course each in practice teaching, history of education in the United States, educational psychology, and methods of teaching.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION

PUBLIC SCHOOL MUSIC MAJOR

Semester hours
Sem. I Sem. II

Freshman Year

English 131-2. Freshman Composition	3	3
Education 131. Introduction to Education	3	.....
Education 132. Classroom Management and Methods .....	.....	3
A natural science	3	3
Music 121-2. Solfeggio	2	2
Music 123-4. Harmony	2	2
Applied Music 125-6.	2	2
*Music 117-8. Voice	1	1
Orient. 111. Orientation	1	.....
Orient. 112. Orientation (elective) .....	.....	1
Physical Training or Band 111-2	1	1
	18	18

Sophomore Year

English 231-2. Introduction to Literature	3	3
Education 234-5. Principles of Secondary Education; High School Methods	3	3
Government 131-2. American Government, National and State	3	3
Music 221-2. Solfeggio	2	2
Music 223-4. Harmony	2	2
Applied Music 225-6.	2	2
*Music 217-8. Voice	1	1
Physical Training or Band 211-2	1	1
	17	17

Junior Year

Education 337. Methods in Classroom Tests	3	.....
Psychology 230. Introduction to Psychology .....	.....	3
Subject-matter minor	3	3
Music 327-8. Conducting	2	2
Music 335-6. History and Appreciation	3	3
Music 337. Elementary Education	3	.....
Music 438. Junior and Senior Methods .....	.....	3
Applied Music 325-6	2	2
Band. 321. Methods .....	.....	2
	16	18

Senior Year

Education 3316. Observation and Practice .....	.....	3
Education 431. History of Education in the United States	3	.....
Psychology 431. Mental Tests .....	.....	3
*Music 435-6. Minor Instruments	3	3
Subject-matter minor	6	3
Applied Music 425-6	2	2
Chorus 413-4, or Orchestra 415-6.	1	1
	15	15

*Class-voice and minor instruments are given without extra tuition.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION

BAND MUSIC MAJOR

Semester hours
Sem. I Sem. II

Freshman Year

English 131-2. Freshman Composition	3	3
Band 125-6.	2	2
Education 131. Introduction to Education	3	.....
Education 132. Classroom Management and Methods .....	.....	3
A natural science	3	3
Music 121-2. Solfeggio	2	2
Music 123-4. Harmony	2	2
*Music 117-8. Voice	1	1
Orient. 111. Orientation	1	.....
Orient. 112. Orientation (elective) .....	.....	1
Physical Training or Band 111-2	1	1
	18	18

Sophomore Year

English 231-2. Introduction to Literature	3	3
Band 225-6.	2	2
Education 234. Principles of Secondary Education	3	.....
Education 235. High School Methods .....	.....	3
Govt. 131-2. American Government, National and State	3	3
Music 221-2. Solfeggio	2	2
Music 223-4. Harmony	2	2
*Music 217-8. Voice	1	1
Physical Training or Band 211-2	1	1
	17	17

Junior Year

Band 325-6.	2	2
Education 337. Methods in Classroom Tests	3	.....
Psychology 230. Introduction to Psychology .....	.....	3
Subject-matter minor	6	3
Band 321. Conducting and Methods .....	.....	2
Music 327-8. Orchestra and Choral Conducting	2	2
Electives in social science	3	3
	16	15

Senior Year

Band 425-6	2	2
Band 421-2. Conducting and Methods	2	2
Education 431. History of Education	3	.....
Education 3316. Observation and Practice .....	.....	3
Psychology 431. Mental Tests .....	.....	3
Subject matter minor	6	3
*Music 435-6. Minor Instruments	3	3
	16	16

*Class-voice and minor instruments are given without extra tuition.

DEPARTMENT OF BIOLOGY

PROFESSORS STUDHALTER, REED. ASSOCIATE PROFESSORS
LANDWER, LEAGUE. ASSISTANT PROFESSOR SEALEY.
INSTRUCTORS HEFLEY, PARKER, SMITH.

The Biology Department offers courses for the following groups of students: (1) those working toward the Bachelor of Science or the Bachelor of Arts Degree; (2) pre-medical, pre-dental, and pre-pharmacy students; (3) those from other divisions or departments wishing biology courses as a background; (4) prospective teachers of biology in high school, or health and hygiene in the grades.

Students desiring the Bachelor of Science degree with a major in Botany or Zoology follow the curriculum outlined for the course. These courses of study supplement the general requirements and the uniform freshman year for the Bachelor of Science Degree, described elsewhere in this catalogue.

Students who do their major work in Botany are expected to spend at least six weeks in the field, earning at least six semester hours' credit in Botany in field courses.

BACTERIOLOGY

231. Bacteriology. Cr. 3, (2-3). I, II.
Intended primarily for students of Agriculture and of Home Economics, in their sophomore or junior year. The morphology and physiology of bacteria, with special emphasis on the bacteria and molds of food products.

321. Bacteriology for Engineers. Cr. 2, (1-3). I.
The morphology and physiology of bacteria, with special emphasis on water purification and sewage disposal.

331-2. General Bacteriology. Cr. 3, (2-3). I and II.
Prerequisite: Twelve semester hours in Botany, Zoology, Chemistry, Geology, or Physics; prerequisite or parallel: six semester hours in Chemistry. The structure and functions of the various types of bacteria; water purification; sewage disposal; some of the disease-producing organisms; the problems of immunity.

333. Communicable Diseases. Cr. 3, (2-3). II.
Prerequisite: Three semester hours in Bacteriology and junior standing. History, prevalence, etiology, sources and modes of infection, and methods of control of the principal human diseases.

BIOLOGY

131-2. Natural History of Plants and Animals. Cr. 3, (2-3). I and II.
The natural history of the major groups of plants and animals with emphasis on a general knowledge of the more common forms. The ecological point of view is stressed. Field work is featured wherever possible.

331. Heredity and Evolution. Cr. 3, (2-3). II.
Prerequisite: Twelve semester hours in Botany or Zoology; or six semester hours in Botany or Zoology and six semester hours in Chemistry, or Geology, or Geography, or Physics. Principles of heredity in plants, animals, and man with emphasis on the cytological background for genetics; organic evolution, with illustrations from both the animal and plant kingdoms. The laboratory period is devoted to demonstrations and to the working of problems.

332. Teaching of Biology. Cr. 3. I.
Prerequisite: Six hours in Education; twelve semester hours in Biology, Botany, or Zoology; or six semester hours in Botany or Zoology and six semester hours in Chemistry, Geology, Geography, or Physics. Lectures, assigned readings, reports, and laboratory problems. The laboratory and its equipment, biological illustrations, collecting, exhibits, herbaria, types of biology courses, textbooks, references, biological institutions and workers. May be counted as Education or as Biology.

411-2. Biology Seminar. Cr. 1. I and II.
Prerequisite: Senior standing in Botany or Zoology, or the consent of the head of the department. Reports on assigned topics, based chiefly on current biological literature and research. May be repeated for full credit.

531-2. Thesis. Cr. 3, (0-9). I and II.
Research in certain phases of Biology.

BOTANY

- 131-2. General Botany. Cr. 3, (2-3).** I and II.
Botany and its subdivisions; introductory survey of plant kingdom; structure and function in the higher plants; review of the plant groups from the algae to the flowering plants.
- 231. Morphology of Higher Plants. Cr. 3, (2-3).** I.
Prerequisite: Bot. 131-2 or Biol. 131-2. Morphology of the ferns, fern allies, and all the seed-bearing plants. The rudiments of plant anatomy.
- 232. Taxonomy of Higher Plants. Cr. 3, (2-3).** II.
Prerequisite: Bot. 131-2 or Biol. 131-2. Classification of the ferns, fern allies, and seed-bearing plants, with emphasis upon the local flora.
- 331. Plant Physiology. Cr. 3, (1-6).** I.
Prerequisite: Twelve semester hours in Botany, or six semester hours in Botany and eleven in Horticulture and Agronomy; prerequisite or parallel: six semester hours in Chemistry. Absorption, water transport, transpiration, nutrition, photosynthesis, respiration, growth, responses to stimuli. Offered in alternate years; offered in 1941-42.
- 332. Morphology of Lower Plants. Cr. 3, (1-6).** II.
Prerequisite: Twelve semester hours in Botany, or six semester hours in Botany and eleven in Horticulture and Agronomy. Morphology of algae, fungi, liverworts, and mosses; rudiments of plant pathology. Offered in alternate years; offered in 1941-42.
- 333-4. Plant Ecology. Cr. 3, (1-6).** I and II.
Prerequisite: Twelve semester hours in Botany; or six semester hours in Botany and six in Zoology, Geology, Geography, Agronomy, or Horticulture. Relation of the plant to various factors of the environment, such as temperature, water, air, light, and soil; plant associations; plant succession.
- 335-6. Plant Geography. Cr. 3, (1-6).** S.
Prerequisite: Twelve semester hours in Botany; or six semester hours in Botany, and six in Zoology, Geology, Geography, Agronomy, or Horticulture. Generally offered only as a summer travel course. Geographic distribution of plants; types of vegetation; origin and composition of the flora in North America; some applied problems of plant geography. The course consists of six weeks of travel and study of a selected portion of North America, followed by the necessary reference reading and a report which is due within three months after the completion of the travel. A grade of Inc. is given until the report has been received and graded.
- 431. Botanical Technique. Cr. 3, (1-6).** I.
Prerequisite: Eighteen semester hours in Botany. Freehand and microtome sections; staining; making of permanent slides. Offered in alternate years; not offered in 1941-42.
- 432. Advanced Plant Anatomy. Cr. 3, (1-6).** II.
Prerequisite: Eighteen semester hours in Botany. Advanced studies of the tissue systems of the vascular plants with emphasis on those of economic importance. Offered in alternate years; not offered in 1941-42.
- 531-2. Problems in Morphology and Anatomy. Cr. 3.** I and II.
Prerequisite or parallel: Botany 431-2. A series of selected problems on morphology and anatomy. Laboratory work, readings, and conferences.

ZOOLOGY

- 131-2. General Zoology. Cr. 3, (2-3).** I and II.
The natural history, morphology, and physiology of the vertebrates, with emphasis on the frog; the more important invertebrate phyla; some general principles, as reproduction, adaptation, evolution, and genetics. Intended primarily for pre-medical students.
- 231-2. Vertebrate Anatomy. Cr. 3, (2-3).** I and II.
Prerequisite: Six semester hours in Zoology or Biology. The morphology, physiology, adaptation, and embryological origins of the various systems of organs in the vertebrates; laboratory study of the anatomy of representative forms.
- 233. Entomology. Cr. 3, (2-3)** I.
Prerequisite: Six semester hours in Biology, Botany, or Zoology. Classroom, laboratory, and field study of the more important insects.
- 235-6. The Human Body. Cr. 3, (2-3).** I and II.
Prerequisite: Sophomore standing. Gross anatomy of the body, including the nervous system, the skeleton, the other organ systems, and the microscopic study of the tissues; the various physiological processes; the fundamental principles of hygiene and sanitation; the fundamentals of heredity and evolution.
- 331. Animal Histology. Cr. 3, (1-6).** I.
Prerequisite: Zoology 231-2. Histology; the preparation and study of permanently mounted animal tissues.

332. Animal Histology and Embryology. Cr. 3, (1-6). I and II.
Prerequisite: Zool. 231-2. Histology; the preparation and study of permanently mounted sections of animal tissues; the embryology of the higher animals, with emphasis on the chick and the pig.

431-2. Animal Cytology. Cr. 3, (1-6). I and II.
Prerequisite: Zool. 331-2. The principles of cytology; histological and cytological technique. In addition to lecture and laboratory work, extensive reading and reports are required in current zoological problems and in other subjects which furnish the necessary background for the course.

The following courses in this department may be taken by Biology majors for graduate credit: Bact. 331-2; Biol. 331, 411-2, 531-2; Bot. 331, 332, 431, 432, 531-2; Zool. 331, 332, 431-2.

DEPARTMENT OF CHEMISTRY AND CHEMICAL ENGINEERING

PROFESSORS GOODWIN, CRAIG. ASSOCIATE PROFESSORS
SCHNEIDER, SLAGLE. ASSISTANT PROFESSORS
MARSHALL, OBERG. INSTRUCTORS DENNIS,
GALBRAITH, ROLF, ROWAN.

The Department of Chemistry and Chemical Engineering offers curricula leading to three degrees. The Degree of Bachelor of Science in Chemical Engineering is awarded upon the completion of the requirements outlined by the Division of Engineering. The Degree of Bachelor of Arts or the Degree of Bachelor of Science, Chemistry Major, is awarded upon the completion of the requirements for the respective degrees as set forth by the Division of Arts and Sciences.

THE DEGREE OF BACHELOR OF ARTS

The general requirements for the Degree of Bachelor of Arts are outlined under **Division of Arts and Sciences**. Thirty semester hours of chemistry are required as a major for this degree. Any course offered by this department, unless stated to the contrary in the description of that course, may be counted in the fulfillment of this requirement, provided that all prerequisites of that course have been fulfilled. The student is advised to select his courses in consultation with the head of this department.

The purpose of this curriculum is to give the student a diversified view of the field of chemistry and, at the same time, to allow an ample and varied choice of other subjects enabling the student to secure a general education. The nature of the courses in chemistry which must be taken is such, however, that the student is prepared for graduate work should he desire to continue the study of chemistry.

THE DEGREE OF BACHELOR OF SCIENCE, CHEMISTRY MAJOR

The general requirements for this degree may be found under **Division of Arts and Sciences**. This curriculum is designed to give the graduate a well-rounded view of the physical sciences—chemistry, biology, geology, and physics. In addition, the minimum major requirement of thirty-six semester hours in chemistry will prepare the student for industrial positions in chemical plants and for graduate work in the science.

THE DEGREE OF BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

Chemical Engineering is recognized today as a distinct branch of engineering. An industrial chemical process in reality consists of a series of unit processes, the proper sequence and coordination of which constitute an engineering science.

The Chemical Engineering curriculum is based upon the belief that a student should secure a thorough, fundamental training in both chemistry and engineering. Emphasis is placed on both class and laboratory work. In addition to the professional courses, the curriculum emphasizes the importance

of instruction in English, economics, and speech and prepares the graduate student for more advanced work by the inclusion of German. It is the purpose of this course to train men so that they may be ready to develop into executives, superintendents, and managers of plants in the field of chemical industry. The curriculum for this degree is given under **Division of Engineering**.

131-2. General Chemistry. Cr. 3, (3-3). Each, I and II.

Meets twice each week in recitation, once each week in laboratory, and once each week in lecture and requires three hours per week in preparation. Prerequisite to all other courses in chemistry. Metals and non-metals and the underlying principles of chemistry. Together with Chem. 220, this course satisfies pre-medical requirements for general chemistry.

220. Qualitative Analysis. Cr. 2, (1-3). I, II.

Prerequisite: Chem. 131-2, although 132 may be taken at the same time. The qualitative separation of basic radicals and simple acidic radicals.

242. Inorganic Chemistry. Cr. 4, (3-3). II.

Prerequisite: Chem. 220. Inorganic materials and principles based on inorganic preparations carried out in the laboratory. These preparations may vary from year to year.

322. Power Plant Chemistry. Cr. 2, (1-3). II.

Prerequisite: Chem. 131-2. Cannot be counted in fulfilling the major requirements in Chemistry. Materials commonly used in a power plant—water and fuels. Practical tests of such materials in the laboratory. For Engineers other than Chemical Engineering students.

330. Teaching of Chemistry. Cr. 3, (0-9). S.

Prerequisite: Chem. 220 and 242 and twelve semester hours in Education. Methods of teaching elementary chemistry. The construction and equipment of laboratories. Conference and library work. Cannot be counted toward fulfillment of the major requirement in chemistry.

331-2. Quantitative Analysis. Cr. 3, (3-6). I and II.

Prerequisite: Chem. 131-2, 220, and 242. Chem. 220 and 242 may be taken parallel by Chemical Engineering students. Meets three hours in lectures and six hours in laboratory per week and requires no outside preparation. Gravimetric and volumetric methods of quantitative analysis. Recommended for the development of laboratory technique. Satisfies pre-medical requirements. Seniors or graduates other than chemistry majors, with B average, may take Chem. 332 without having had Chem. 331.

341. Organic Chemistry. Cr. 4, (3-3). I, II.

Prerequisite: Chem. 131-2. For students in the Divisions of Agriculture and Home Economics. Does not satisfy pre-medical requirements and cannot be counted in fulfilling the major requirements in chemistry.

343-4. Organic Chemistry. Cr. 4, (3-3). I and II.

Section A. Industrial Section. Prerequisite: Junior standing in chemistry. The compounds of carbon. Provides a thorough foundation course in organic chemistry for Engineers, and Bachelor of Science majors.

Section B. Biological Section. Prerequisite: Chem. 131-2 and Chem. 220. A similar course to Section A save that emphasis is placed on physiological aspects. Designed for candidates for the Bachelor of Arts Degree, for pre-medical students, and for those interested in nutrition. Satisfies pre-medical requirements.

411-2. Chemistry Seminar. Cr. 1. I and II.

Required of all candidates for any degree with a Chemistry major. Usually reserved for the senior year. Open to juniors with permission of the head of the department. May be counted for credit as often as taken.

421. Organic Combustion Analysis. Cr. 2, (0-6). I.

Prerequisite: Consent of the instructor. The ultimate analysis of organic compounds.

431-2. Principles of Chemical Engineering. Cr. 3. I and II.

Prerequisite: A course in calculus and Chem. 441-2. Chem. 441-2 may be taken parallel. Flow of fluids; heat transfer; principles of basic unit operations of chemical engineering.

433. Stoichiometry. Cr. 3. II.

Prerequisite: Chem. 431. A problem course in industrial chemistry.

434. Organic Preparations. Cr. 3, (0-9). II.

Prerequisite: Consent of instructor. The synthesis of organic materials with special attention to technique and yields.

435. Senior Chemistry—Advanced Quantitative Analysis. Cr. 3, (0-9). I.

Prerequisite: Senior standing in chemistry. The analysis of water, foods, feeds, rock, alloys, etc. Materials analyzed vary from year to year.

436. Senior Chemistry—Biological Chemistry. Cr. 3, (2-3). II.
Prerequisite: Senior standing in chemistry. Fundamentals of biological chemistry. Laboratory includes both qualitative and quantitative procedures.
437. Senior Chemistry—Qualitative Microanalysis. Cr. 3, (1-6). I.
Prerequisite: Senior standing in chemistry. Fundamental principles of chemical microanalysis.
438. Senior Chemistry—Advanced Physical Chemistry. Cr. 3. II.
Prerequisite: Senior standing in chemistry. May be taken with Chem. 442. Thermodynamics, solutions, atomic theory and valence, reaction kinetics, and other advanced topics.
- 441-2. Physical Chemistry. Cr. 4, (3-3). I and II.
Prerequisite: Chem. 220, 242, 331-2, 343-4, five semester hours in calculus, six semester hours in physics, and consent of the instructor; 343-4 may be taken parallel. The modern theories of chemistry and the methods of physico-chemical measurements.
443. Industrial Chemistry. Cr. 4, (3-3). I.
Prerequisite: Chem. 331-2 and Chem. 343-4. The application of chemistry to modern industry. The laboratory work includes the practical testing of water and fuels.
446. Advanced Chemical Engineering. Cr. 4, (3-3). II.
Prerequisite: Chem. 432 or simultaneous registration. The economics of chemical engineering and advanced problems on heat transfer and distillation. Special problems in the laboratory.
- 537-8. Advanced Work in Specific Fields. Credit varies. I and II.
Prerequisite: Chem. 441-2 and graduate standing. Course and credit depends upon interests of student. All registration must be approved by the head of the department.
- 537-8A. Thesis Course. Cr. 3, (0-9). I and II.
Research in analytical, industrial, inorganic, and physical chemistry and in chemical engineering.
- 537-8B. Advanced Chemical Engineering. Cr. 3. I and II.
Prerequisite: Chem. 431-2. Emphasis placed on cost calculations in design and operation of basic processes such as distillation, filtration, heat transfer.
- 537-8C. Advanced Organic Chemistry. Cr. 3, (2-3). I and II.
Prerequisite: Graduate standing. Modern theories of organic chemistry. Laboratory work consists of qualitative and quantitative organic analysis.
- 537D. Spectrographic Analysis. Cr. 3, (2-3). I.
Prerequisite: Graduate standing. Quantitative spectrographic analysis.
- 538E. Colloid Chemistry. Cr. 3, (2-3). II.
The theory and application of colloid chemistry.

Courses in this department which may be taken by chemistry majors for graduate credit are Chem. 411-2, 421, 434, 435, 436, 437, 438, 441-2, if an additional problem is carried; also 537-8A, 537-8B, 537-8C, 537D, 538E. In addition either Chem. 331-2 or Chem. 343-4, but not both, may be taken for graduate credit by those students majoring in other departments.

DEPARTMENT OF ECONOMICS AND BUSINESS ADMINISTRATION

PROFESSORS ELLSWORTH, ROOT, PLANK. PART-TIME
PROFESSOR KILPATRICK. ASSOCIATE PROFESSOR WIESEN.
ASSISTANT PROFESSORS JACKSON, RUSHING, ERICKSON.
INSTRUCTORS TAYLOR, MIDDLETON, HARDING, ANDERSON.

The present social order demands of every citizen a working knowledge of basic economic principles. Familiarity with the economic system and economic forces makes possible more intelligent living. Training in the laws governing economic action and their relationship to other fields of social activity is essential to the solution of the problems of the individual as well as those of society. Increased income, more consumption of goods, and larger purchasing power result from advanced knowledge of the association and the cause and effect of economic forces. Success in modern business demands this fundamental background, together with practice and experience in business resulting in the development of the essential skills. The purpose of

the Department of Economics and Business Administration is to make it possible for the student to obtain this preparation. The degree of accomplishment will rest with the individual student.

The processes necessary in the production of a satisfactory living are becoming increasingly complicated. International commercial intercourse has reduced the economic size of our planet. The artist, the technician, the professional man, the laborer, and the homemaker—all increasingly react to economic and business stimulation. Competition has forced recognition, study, analysis, and application of certain laws, principles, and skills for the student in arts, engineering, home economics, agriculture, and business.

The Degree of Bachelor of Arts with a major in Economics is intended for those students who are interested largely in the theory of economics and who wish to give a major portion of their time to a study of the fundamental principles of the subject rather than to the applied fields. A detailed curriculum has been developed for this degree. Only grades of A, B, and C will be accepted in the major subjects of junior and senior courses.

In addition to the Bachelor of Arts Degree with a major in economics, the department offers curricula leading to the degree of Bachelor of Business Administration with majors in economics, marketing, finance, accounting, industrial management, public administration, and secretarial management, and with an option in cotton marketing. A subdivision for a major termed "General Business" has been provided for students who know definitely what they want in Business Administration. This is to be used when the needs of the individual are not covered by the preceding majors. Such a program of courses must be approved by the department before the beginning of the second semester of the junior year.

The required 128 hours for the degree may include two credit hours of typewriting. When four hours are taken in this subject, a total of 130 hours will be completed.

A special teaching certificate may be issued after completion of required courses in methods of teaching.

All majors in Business Administration will complete the uniform freshman and sophomore programs. Requirements of history and science will vary with the quantity and quality of these subjects completed in high school. Entering students who by examination have a typing speed of over forty words are not required to take additional typewriting, except for majors in secretarial managements. Students are encouraged to complete the requirements in typewriting before entering college. Junior and senior major students are expected to have access to a typewriter and all written work should be typed. Major students will be expected to do quality work, and only grades of A, B, and C will be accepted in the major subjects of junior and senior courses.

Provision may be made for students who must finance their own education to complete the work for a Degree of Bachelor of Business Administration by attendance only through the second semesters and summer schools. This makes possible employment in business and industry through the busy months of September to January, thus lessening the need of part-time employment while attending college.

Students majoring in Business Administration will be encouraged to have a minimum of three months experience in some phase of business.

The Master of Arts Degree with a major in Economics, and the Master of Business Administration Degree will be given upon completion of the requirements of the Graduate Division. Details of such work will be found in this bulletin under **Division of Graduate Studies**.

ECONOMICS

- 231-2. Principles of Economics. Cr. 3.** Each, I and II.
Prerequisite: Sophomore standing. Modern economic society and modern economic problems. Forms of business organizations. Prices, money, banking, transportation, taxation, interest, rent, profits, labor problems. Proposed economic reform.
- 234. Economic Development of the United States. Cr. 3.** I, II.
Prerequisite: Sophomore standing. Economic development in the United States from colonial times to the present. The exploitation of natural resources, the influence of slavery, problems of immigration, and the development of capitalistic industry.
- 235. Principles of Economics. Cr. 3.** I, II.
Prerequisite: Sophomore standing. The same general subject matter as in 231-2 except that it is covered in one semester.
- 331. Money and Banking. Cr. 3.** I.
Prerequisite: Six hours in Economics. History and principles of money and banking. Existing monetary and banking systems, problems of the standard, foreign exchange. Federal Reserve system, state banks, recent monetary and banking legislation.
- 332. Public Utility Economics. Cr. 3.** I.
Prerequisite: Six hours in Economics. Principles and problems of public utilities. Financing, ownership, and public relations. Problems of valuation, rate of return, and rate structures. Regulation vs. government ownership.
- 333. Public Finance. Cr. 3.** I.
Prerequisite: Six hours in Economics. Analysis of the economics aspects of government finances. Principles, policies, and problems of public expenditures—national, state, and local. The economics of conservation and other commercial activities of government. Public borrowing, debts, and financial administration. Special attention to present day problems.
- 334. Taxation. Cr. 3.** II.
Prerequisite: Six hours in Economics. Federal, state, and local taxation—history, development, and present status—with emphasis on sales, income, property, inheritance, and business taxes. Special studies devoted to Texas tax problems.
- 411. Seminar in Economics and Business. Cr. 1.** I, II.
Prerequisite: Senior standing in the department. Reports and discussion by students of advanced literature and current problems in the field covered by the department.
- 430. Research in Economics and Business. Cr. 3.** I, II.
Prerequisite: Senior standing in the department and a three-hour course in statistical methods. Research methods used in the field. A definite problem will be undertaken for actual experience on the part of the students. Students will receive training in the use in research of the equipment installed by the International Business Machines Corporation.
- 431. Transportation. Cr. 3.** I.
Prerequisite: Six hours in Economics. The development of the transportation system; rivers, canals, toll-roads, railroads, highways, air. Government regulation of transportation agencies. Rate making, valuation, financing, consolidations. Present tendencies.
- 432. Labor. Cr. 3.** I.
Prerequisite: Six hours in Economics. The main forces which have created modern labor legislation. Wages, hours of work, working conditions, unemployment, pension plans. Arbitration, and social and industrial insurance.
- 433. International Economic Problems and Foreign Trade. Cr. 3.** II.
Prerequisite: Six hours in Economics. Comparison of domestic and international economic relations. Political obstacles to international trade. The tariff and commercial treaties. International monetary problems. Financing foreign trade. Foreign loans.
- 434. Economic Systems. Cr. 3.** I.
Prerequisite: Six hours in Economics. A survey of the control of economic institutions for the welfare of the general community. Also a study of the main principles of a planned economy and existing economic systems.
- 435. Economic Cycles and Forecasts. Cr. 3.** II.
Prerequisite: Six hours in Economics. Economic theories of cycles. Their causes and proposed remedies. An examination of forecasting services available and technique employed by them. Problems in specific commodities and securities.
- 436. Economic Theory: Development and Present Status. Cr. 3.** I.
Prerequisite: Six hours in Economics. The evolution of economic thought. The problems of unregulated competition and monopolies as they influence social welfare.
- 437. Current Economic Problems. Cr. 3.** I.
Prerequisite: Six hours in Economics. Fundamental problems of economic life today and proposed solutions. A critical examination of the present economic policies of government and industry. Individual research encouraged.

438. Public Utility Problems. Cr. 3.**II.**

Prerequisite: Six hours in Economics and Eco. 332. Economic and legal problems arising out of the development of public utilities, the evolution of rate structures, service demands, inter-corporate relationships, and other economic and business problems arising out of public regulations. Emphasis placed upon recent decisions of commissions and court involving important economic problems. Offered in alternate years; offered in 1941-42.

439. Public Control of Business. Cr. 3.**II.**

Prerequisite: Six hours in Economics. A study of the fundamental relationship of modern business organization and policies to the public welfare. The problems of governmental control both from the standpoint of the consumer and the producer. The nature, purposes, and results of existing regulations, and an analysis of proposed measures.

533. Research in Economics and Business. Cr. 3.**I.**

Prerequisite: Graduate standing. Solution and presentation of an approved problem involving individual research in the field of economics and business.

BUSINESS ADMINISTRATION**111. Elementary Typewriting. Cr. 1, (0-5).****I, II.**

A beginners' course in typewriting covering a general knowledge of the care and operation of a typewriter, copy work, dictation, letter writing, and forms. Typewriter rental, \$4 per semester.

121. Elementary Typewriting. Cr. 2, (0-5).**I, II.**

A course for those who have had B. A. 111 or one year of typewriting in high school, or its equivalent. Required for B. B. A. degree. Typewriter rental, \$4 per semester.

122. Advanced Typewriting. Cr. 2, (0-5).**I, II.**

Prerequisite: B. A. 121 or two years of high school typing. Advanced copy work and dictation. Preparation of stencils, business forms. Required of Secretarial Management majors. Typewriter rental, \$4 per semester.

131. Introduction to Business. Cr. 3, (2-2).**I, II.**

Two class periods devoted to the discovery and study of a personal business and its relation to commercial affairs. Development of a future program for personal business and its application to commercial work. Introduction to problems of the producer and the consumer and price changes. One laboratory each week devoted to discussions by local business men on problems of their business and how students may train to fit into such activities.

231-2. Elementary Shorthand. Cr. 3, (0-5).**I and II.**

Prerequisite: B. A. 121, 122. A beginners' course covering the reading of shorthand, the penmanship of shorthand, simple transcription, letter writing.

244-5. Elementary Accounting. Cr. 4, (3-3).**I and II.**

Prerequisite: Sophomore standing. Introduction to bookkeeping and accounting covering principles of accounting, financial statements, and system for the sole proprietorship; partnerships, corporation problems, and the interpretation of statements.

330. Principles of Finance. Cr. 3.**I and II.**

Prerequisite: Eco. 236-7, B. A. 244-5. Principles of finance applied to launching, organizing, and administering the average business enterprise. Financial aspects of credit extension, selling, and purchasing. Financial characteristics of the partnership, proprietorship, and corporation. Relation of finance to seasonal and cyclical trends.

331. Corporation Finance. Cr. 3.**II.**

Prerequisite: B. A. 330. The financial aspects of the modern business corporation; promotion; the investment banker; the underwriting syndicate; methods of sale of securities to the public; security exchanges; detailed discussion of the various types of bonds, stocks, and notes; selection of the financial plan; methods of raising new capital for old concerns—expansion; merger, and combination, failure and reorganization; computation and administration of income, dividend policies; public regulation.

332. Principles of Marketing. Cr. 3.**I and II.**

Prerequisite: Six hours in Economics. Marketing structures and agencies. Types of middlemen and retail institutions. Current marketing practices. Distribution of raw materials and finished products. Local field trips.

333. Marketing Problems. Cr. 3, (2-3).**II.**

Prerequisite: B. A. 332. Actual marketing cases taken from local field trips. Materials covering consumer's buying habits, department store operation, cooperative buying, direct selling, control of sales force.

334-5. Business Law. Cr. 3.**I and II.**

Prerequisite: Six hours in Economics and junior standing. The ordinary rules of business law. The development of our legal system. The law of persons, torts, contract, agency, private property, sales, negotiable instruments, insurance, labor, partnerships, and corporations. Stress will be placed upon Texas law where it varies from usual practice.

- 336. Industrial Management. Cr. 3.** II.
Prerequisite: Six hours in Economics. The executive problem of production, types of executive controls, scientific management, buildings, layouts, control of operations, wage systems, personnel, standardization, budgets. Offered in alternate years; not offered in 1941-42.
- 337-8. Intermediate Accounting. Cr. 3.** I and II.
Prerequisite: B. A. 244-5. Advanced principles of Accounting. Problems peculiar to partnership and corporation. Emphasis placed on items of balance sheet, profit and loss, surplus statements. Ratios, reserves, budgets, and consolidated statements studied. Required of Accounting majors.
- 339-10. Secretarial Practice. Cr. 3, (0-5).** I, II.
Prerequisite: B. A. 122, 232. Advanced dictation, training in office duties. The purpose of this course is to train students to systematize and supervise secretarial activities. Designed primarily for those majoring in secretarial management and those planning to teach commercial work.
- 331. Business Statistics. Cr. 3, (2-3).** I, II.
Prerequisite: Junior standing, one year of mathematics. Sources of business statistics with a survey of methods of their collection, analysis, presentation, and interpretation. Includes methods of sampling, construction of graphs, uses of averages, dispersion, index numbers, correlation, probability, estimates, and their use in business institutions and by business people. The use in business of the International Business Machines.
- 361. Field Problems in Business. Cr. 6.** S.
Prerequisite: Permission of the instructor. A field trip of six weeks traveling through the Southern and Atlantic states or the Western states studying existing commercial institutions including banks, markets, factories, stock exchanges, produce exchanges, brokers, transportation agencies, government divisions associated with business. A detailed itinerary will be followed and new people will be contacted each day. Expenses about \$185, including registration, transportation, meals, lodging.
- 411. Supervised Business Practice. Cr. 1.** I, II.
Prerequisite: B. A. 339-10 and senior standing. Offered only to those students majoring in secretarial administration or expecting to teach commercial work. A minimum of 50 hours must be spent with an approved office or business concern. Written reports must be submitted on this experience and also on reading assigned.
- 421. Office Appliances. Cr. 2, (1-3).** I, II.
Prerequisite: B. A. 232. Equipment: its selection and place in the office. Instruction and practice in the operation of various machines, such as dictaphone, ediphone, adding machine, calculating machine, mimeograph and mimeoscope, and billing machine.
- 430. Methods of Teaching Commercial Subjects in High School. Cr. 3.** II.
Prerequisite: Senior standing in the department. Aims and objectives, selection and organization of subject matter, methods of presentation, and curriculum development most suitable for teaching commercial subjects in high school.
- 431. Office Management. Cr. 3.** I.
Prerequisite: B. A. 122 and six hours in Economics. Standards of office practice, wage payment plans, technique of office methods, selection and training of employees, office planning, duties and responsibilities of office managers.
- 432. Advertising. Cr. 3.** II.
Prerequisite: B. A. 332 and junior standing in the department. Advertising elements such as copy, layout, media, typography. Problems applied to the principles of advertising.
- 433. Personnel Administration. Cr. 3.** II.
Prerequisite: Six hours in Economics. Genesis of labor and personnel problems, economic and psychological background. The law of employment relations. Selection and placement of workers, personnel and research, labor turnover, wage systems, development and training of employees, collective bargaining, and employee representation.
- 434. Investments. Cr. 3.** I.
Prerequisite: B. A. 330-1. Analysis of investment securities. Forms and types of investments, classes of investors, diversification, influence of taxation, influence of speculation.
- 436. Principles of Cost Accounting. Cr. 3.** I.
Prerequisite: B. A. 244-5. Records and reports for the cost department. Methods of allocating overhead costs. Records and principles for handling material, labor, and indirect costs. Offered in alternate years; offered in 1941-42.
- 437. Principles of Auditing. Cr. 3.** II.
Prerequisite: B. A. 244-5 and B. A. 337. Auditing procedure, classification of audits, and investigations. Methods of verification of financial statements. Problems and principles in auditing. Offered in alternate years; offered in 1941-42.
- 438. Retail Store Management. Cr. 3.** I.
Prerequisite: Six hours in Economics. The training of employees, wage systems, workmen's compensation laws, collective bargaining, trade agreements.

439. Credits and Collections. Cr. 3.

II.

Prerequisite: Senior standing in the department. Mercantile management and extension of credit position, and qualifications of the credit man; the bases of credit; sources of credit information; type and analysis of financial statements; determination of credit limits; collection procedure; special problems of installment credit; legal remedies of the creditor; credit insurance.

4310. Income Tax Accounting. Cr. 3.

I.

Prerequisite: B. A. 244-5. The Federal Revenue Acts with special reference to the taxation of individuals, corporations, and estates; the use of an income tax system. Illustrated tax returns in connection with various types of business enterprises will be prepared by the student.

4311. Accounting Systems. Cr. 3.

II.

Prerequisite: B. A. 244-5 and 337. Construction of accounting reports, applications of principles of system and design to the policies, organization, and operating methods of individual companies. Problems and cases. Offered in alternate years; not offered in 1941-42.

4312. Salesmanship. Cr. 3.

I.

Prerequisite: B. A. 332. Practices involved in selling goods and services. Stress will be placed upon principles involved in selling other than over the counter. Study of methods used by local salesmen.

4313. Commodity Marketing. Cr. 3.

II.

Prerequisite: B. A. 332. A specialized study of problems involved in marketing commodities of the students' choice.

4314. Advanced Accounting. Cr. 3.

I.

Prerequisite: B. A. 244-5, 337-8. Advanced work in theory and practice. Problems embracing special accounting aspects of partnerships, governmental units and non-profit organizations, organizations in financial difficulty, fiduciary relationships, corporation accounting, and accounting for estates.

4315. Secretarial Problems. Cr. 3.

II.

Prerequisite: B. A. 339-10. Responsibilities and duties of various types of secretaries. Problems pertaining to secretarial employees.

4316. Governmental Accounting. Cr. 3.

II.

Prerequisite: B. A. 244-5. Application of accounting principles and systems to the requirements of governmental units—state, county, and municipal bodies. Emphasis to be placed upon budgetary and fund accounts. Offered in alternate years; not offered in 1941-42.

4317. Insurance. Cr. 3.

II.

Prerequisite: Six hours in Economics. Risk and risk-bearing necessary in business, with shifting to professional risk takers. Types of insurance, including life, property, casualty, and their adaption to business functions and organization.

4318. Machine Accounting. Cr. 3, (2-3).

II.

Prerequisite: B. A. 244-5. Principles of accounting machine methods; tabulating machine cards, punches, verifiers, sorters, tabulators and interpreters; organization of tabulating machine departments. Application of International Business Machines and other machines in the fields of accounting.

531-2. Cr. 3.

I, II.

Thesis for the Master's Degree in Economics or Business Administration. Registration may be for three to six hours, depending upon the quality of work.

The following courses in this department may be taken for graduate credit: Eco. 331, 332, 333, 334, 411, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439; B. A. 331, 333, 336, 337-8, 361, 430, 432, 433, 434, 436, 437, 438, 439, 4310, 4311, 4312, 4313, 4314, 4316, 4317. An additional problem must be carried in the above undergraduate courses in order for them to count as graduate work. Eco. 533, and B. A. 531-2. For minor only: B. A. 330, 332, 334, 335.

DEPARTMENT OF EDUCATION AND PSYCHOLOGY

PROFESSORS EVANS, BARNETT, GARLIN. ASSOCIATE
PROFESSORS COOPER, DYSART, JACKSON, SHAVER, TRUE.

The Department of Education and Psychology furnishes the professional training in education necessary for the training of teachers. No person can be a good teacher without a thorough knowledge of the subject matter which he intends to teach. All students who are preparing to be teachers, therefore, should take full courses in subject matter as a part of their preparation to be teachers and school administrators.

The function of this department is primarily to furnish the professional training in methods, preparation of materials, classroom management, the fundamentals of administration and supervision, and other professional courses necessary for the adequate preparation of teachers.

Each course in education and psychology counts as an independent course and may be taken by students majoring in other divisions or departments who desire to prepare themselves as teachers or to satisfy degree requirements.

Courses taken in Texas Technological College may be used to satisfy requirements for teachers' certificates valid in Texas and in other states. Students desiring to teach in other states should consult the head of the department concerning certificate requirements in these states. Teachers' certificates are secured by compliance with the State school laws. Persons desiring to secure certificates must meet all legal requirements.

REGULATIONS GOVERNING STATE TEACHERS' CERTIFICATES

Four-Year Elementary or Two-Year High School Certificate. On completion of five college courses (thirty semester hours), including six semester hours in English, six semester hours in Education, and six semester hours in required courses in Government, an Elementary Certificate valid for four years, or High School Certificate valid for two years, may be issued.

Six-Year Elementary or Four-Year High School Certificate. On completion of ten college courses (sixty semester hours), including twelve hours in Education, and the required courses in English and Government, a Four-Year High School Certificate, or Six-Year Elementary Certificate, may be issued. Any twelve hours in education will be accepted for the Elementary Certificate, valid for six years, but an applicant must have credit for six semester hours that bear wholly on high school education before the High School Certificate may be issued. It is provided that the holder of the Six-Year Elementary Certificate shall, upon completion of five years of successful elementary teaching, be granted a Permanent Elementary Certificate. It is provided further that the satisfactory completion of a year's college work (thirty semester hours) may be substituted for a year's successful teaching, if attendance at the college takes place after the issuance of the certificate.

Permanent High School Certificate. A Permanent High School Certificate may be issued on a Bachelor's Degree, including twenty-four semester hours in education. A part of the courses in education must include at least two semester hours in observation and practice teaching, two semester hours in high school methods and six semester hours in high school education.

A Permanent High School Certificate may be issued also on a Bachelor's Degree, which includes twelve hours in education (six hours high school), with the usual required courses in English and government, and three years' teaching experience subsequent to a degree.

Special Certificates. Special certificates authorizing the holders to teach the special subjects of Agriculture, Home Economics, commercial subjects, Public School Drawing, Speech, Manual Training, Physical Training, Public School Music, Instrumental Music, Industrial Training, or foreign languages may be granted by meeting the requirements set forth by the State Department of Education for the several certificates. Thus, also students who are registered in the Division of Agriculture, Home Economics or Engineering may take sufficient courses in Education and Psychology to meet the requirements for a State Teacher's Certificate and the usual special certificates in the designated fields, and thus may take their degrees in the division in which they are registered and qualify themselves to teach Agriculture, Home Economics, Shop Work, Industrial Training, or combinations of these and other high school subjects.

The Three-Year Special Certificate may be issued on completion of two years' college work, which must include six semester hours in English, six

semester hours in Education, six semester hours in required courses in government, and six semester hours in the special subject in which the certificate is issued, and in addition thereto, one semester's work in methods of teaching the special subject.

The Four-Year Special Certificate may be issued on the completion of three years' college work, which must include six semester hours in English, six semester hours in Education, six semester hours in required courses in government, and eighteen semester hours in the special subject in which the certificate is granted, and in addition thereto, one semester's work in the methods of teaching the special subject.

The Permanent Special Certificate may be issued on the completion of the requirements for a Bachelor's Degree, in which must be included the required courses of six semester hours in English, six semester hours in Education, and twenty-four semester hours in the special subject, and in addition thereto, one semester's work in special methods of teaching the subject in which the certificate is issued.

Holders of Special Certificates in certain fields may secure a Permanent Special Certificate in that field on the completion of three years of teaching this special subject during the validity of their certificate.

Administrator's Certificate of Approval. A statement of approval is issued those administrators who present the completion of at least twelve semester hours of credit in the field of advanced administration and supervision, and six semester hours of credit in the field of advanced methods. This document is not accepted in lieu of any legal certificate that may be required. It indicates that the holder has met the recent requirement concerning the training of superintendents and principals in accredited school systems in Texas. These courses are generally taken by people who have already been graduated. The number of education courses required for the Bachelor of Science in Education usually prevents a student from taking additional courses in education for the undergraduate degree.

One Year Extension of Certificates of Any Grade. Any certificate of any grade may be extended for a period of one year by completion of six semester hours in summer school, during the year in which the certificate expires. Work done in the long session and correspondence or extension work may not be used in lieu of summer school attendance for extension of certificates.

Courses in Government Required for a Certificate. A teacher's certificate issued by the State Department of Education based on college work requires courses in government covering the Federal and Texas constitutions. Students who enrolled after September 1, 1937 will be required to complete satisfactorily a minimum of six semester hours in courses in government. Students who enrolled previous to the above date may satisfy the requirement by two semester hours in government; Government 320 will satisfy the minimum requirements for such students.

Courses for Primary and Elementary Teachers. Students who are preparing to teach in the primary or elementary grades of the public schools are required to elect Biology 131-2 or Geography 131-2 as the basic requirement in elementary science. They are also expected to take courses in physical education and in either music or art in connection with their preparation for acceptable teaching in these fields.

Scholarship, as shown by the grades of the students, will be given great weight in recommending students for certificates or teaching positions.

Explanation of duplicate numbers for courses carrying both three-hour and two-hour credit. In the Department of Education and Psychology and the Department of Philosophy and Sociology, certain courses are offered as three-hour courses at one time and as two-hour courses at another time. Usually the two-hour courses are taught in the summer and the three-hour courses are taught in the long session. The description of the course is presented but once and the course which has both three and two-hour credit

is marked with an asterisk. At the close of the description of the courses in these two departments, a cross reference of the course numbers concerned is presented for the department, and thus these similar courses may be identified.

Credit may be received for only one such similar course.

EDUCATION

131. Introduction to Education. Cr. 3. I, II.
Brief survey of the general field of education with particular reference to the origin and development of present-day practices in the public schools.
132. Classroom Management and Methods. Cr. 3. I, II.
Fundamental principles of classroom management and their application in the school room; methods of learning involved in the various school subjects and corresponding methods of teaching. Elementary skills and how they may be acquired in the classroom.
- *135. Penmanship. Cr. 3. S.
Basic for teachers of penmanship in the elementary grades.
2210. Local Materials for Unit Construction. Cr. 2. S.
Investigations of, and experiences with, subject matter to be derived from the natural and social environment of elementary school children.
231. Educational Psychology. See Psychology 231.
- *233. School Health and Hygiene. Cr. 3. II.
Prerequisite: Sophomore standing. The organization and administration of school health programs with special emphasis on the public health aspects of school hygiene. The principles and methods of preventive mental hygiene. Offered in alternate years; offered in 1941-42.
234. Principles of Secondary Education. Cr. 3. I, II.
Prerequisite: Sophomore standing. Basic principles underlying secondary education, including the high school as a social institution and the physical and mental characteristics of the secondary pupil.
235. High School Methods. Cr. 3. I, II.
Prerequisite: Sophomore standing. Economy in classroom procedure; selection and arrangement of subject matter; lesson planning; adapting classroom instruction to individual differences; directing study; laboratory methods; technique of socialized procedure.
- *236. Basic Skills in the Elementary Grades. Cr. 3. I.
Prerequisite: Sophomore standing. Psychological principles and scientific techniques underlying the teaching of the skill subjects with special application to arithmetic, spelling, and writing.
- *237. The Language Arts. Cr. 3. II.
Prerequisite: Sophomore standing. Methods, activities, and materials to be used in the teaching of the language arts in the elementary grades with special reference to reading, English, and literature.
- *238. Materials and Methods in the Social Studies of the Elementary Grades. Cr. 3. II.
Prerequisite: Sophomore standing. An informal presentation of the materials and methods of the elementary grades with emphasis on the social studies and the language arts. The procedure will consist of training in the development of social relationship and the establishment of language integrations. An application of the principles of activism in education.
331. Principles of Education. Cr. 3. I.
Prerequisite: Junior standing in Education. Educational theory stressing the more important principles involved in the processes of education. Special attention to the biological, psychological, sociological, and historical bases of education and their application to educational practice.
332. High School Problems. Cr. 3. II.
Prerequisite: Junior standing in Education. The organization of the high school; curriculum reconstruction; the high school pupil; the selective character of secondary education; selected topics.
- *334. Basic Principles of Method. Cr. 3. II.
Prerequisite: Junior standing in Education. A critical examination of the principles underlying method in teaching. A study of method types such as the case method, the laboratory method, and the lecture method, etc. An analysis of the different elements of method and a synthesis of their relationships.

335. The Junior High School. Cr. 3.*I.**

Prerequisite: Junior standing in Education. The function of the junior high school; curricula and programs of study; discipline and social activities; homogeneous grouping; articulation with the elementary school and the senior high school.

336. Educational and Vocational Guidance. Cr. 3.*S.**

Prerequisite: Junior standing in Education. For superintendents, principals, and teachers who feel the need for instruction in methods of educational, professional, and vocational guidance. Guidance for college students, and also for students of junior and senior high-school rank.

337. Methods in Classroom Tests. Cr. 3.*I.**

Prerequisite: Junior standing in Education. Advanced methods in new-type tests, their advantages and disadvantages; practice in making and giving teachers' classroom tests; scoring and tabulating results; using tests for diagnosis and the improvement of teaching; test making as a phase of teaching method.

338. Every Teacher's Problems. Cr. 3.*I.**

Prerequisite: Junior standing in Education. An enumeration and discussion of the problems that confront the teacher in the school room, and guiding principles for their solution. Individual and social as well as professional problems common to present-day teachers.

339. Character Education. Cr. 3.*II.**

Prerequisite: Junior or senior standing in Education. An analysis of present-day theories and practice in character building, pointing out the defects and derelictions of the past and showing how the school and the home may provide more training for improving the morals of pupils and for rendering the pupils more competent to discharge their social obligations. Offered in alternate years; not offered in 1941-42.

3310. Children's Literature. Cr. 3.*I.**

Prerequisite: Junior standing or consent of instructor. Introduction to literature both new and old, prose and poetry, for children under twelve; including standards for judging and criteria for selecting books for different age and interest levels. Offered in alternate years; offered in 1941-42.

3311. Diagnosis and Improvement of Reading. Cr. 3.*S.**

Prerequisite: Junior standing in Education. Causes and analyses of reading difficulties. Remedial programs and improvement records.

3314. The Principal and His School. Cr. 3.*S.**

Prerequisite: Junior standing in Education. Similar to Ed. 320; credit may not be allowed for both of these courses. The organization and operation of a school building unit, dealing with the varied duties of the principal in administering a school.

3315. Visual-audio Aids in Education. Cr. 3.**II. S.**

Prerequisite: Junior standing or consent of instructor. Designed to show what can be done advantageously in teaching different subjects in the public schools by the use of various visual aids. The meaning of visual education and how to keep informed on the subject of visual aids will be stressed. Different types of visual aids will be illustrated and evaluated.

3316. Observation and Practice. Cr. 3.**I, II.**

Prerequisite: Junior standing in Education. Principles of teaching, observation of class work, construction of lesson plans, and teaching under supervision in the Lubbock public schools. Relates largely to junior and senior high school teaching.

3317. Observation and Practice. Cr. 3.**I, II.**

Prerequisite for primary and elementary teachers: nine hours credit in the specific field concerned.

3318. Supervision of Class Room Technique. Cr. 3.*S.**

Prerequisite: Junior standing in Education. Deals with teacher-student conferences, techniques of observation, planning, and evaluation of teaching. For student teachers, critic teachers, elementary supervisors, and primary principals.

3319. Methods in Elementary English. Cr. 3.**S.**

Formerly 133. Prerequisite: Twelve hours in English and twelve hours in Education. Modern methods of teaching English fundamentals, both oral and written.

3320. Workshop Technique for Elementary Teachers. Cr. 3.**S.**

Prerequisite: Junior standing or consent of instructor. Individual planning and personal participation in activities in selected fields, such as creative arts, crafts, school newspapers, reading materials, choral speaking.

411. Ethics of the Teaching Profession. Cr. 1.**II.**

Prerequisite: Junior or senior standing in Education. Formerly 311. The practical duties of the teacher, his relationship to fellow teachers, to his community, and to himself. Strongly recommended for all majors in Education.

- *430. Sociological Principles of Education. Cr. 3. II.**
Prerequisite: Junior or senior standing in Education. A comparison of the field of psychology and sociology in relation to the principles and processes of education. Offered in alternate years; not offered in 1941-42.
- *431. Education in the United States. Cr. 3. I.**
Prerequisite: Junior or senior standing. Educational history, theory, and practice in the United States; the origin and development of public elementary and secondary education.
- *432. Public School Administration. Cr. 3. II.**
Prerequisite: Junior or senior standing or consent of instructor. Problems that confront the superintendent or principal, such as classification and grading, arranging courses of study, selection and improvement of the teaching staff, relations with teachers, school board, and general public.
- 433. Public School Interpretation. Cr. 3. II.**
Prerequisite: Junior standing in Education. Definitions, aims, and underlying principles of school interpretation; organization of the program, media of approach to the public, and appraisal of the program.
- *434. The Supervision of Instruction. Cr. 3. I.**
Prerequisite: Junior standing in Education. Designed to give prospective principals, superintendents, supervisors, and teachers an understanding of the principles and technique of supervising instruction. The organization and planning of supervision, methods and devices for the improvement of teaching, evaluating the efficiency of teachers and supervisors, and the training of supervisors.
- *435. Extra-Curricular Activities. Cr. 3. II.**
Prerequisite: Junior standing in Education. Objectives and values of extra-curricular activities. Classification of activities and participation of pupils; faculty sponsors and school control.
- *436. The Curriculum. Cr. 3. I.**
Curriculum reconstruction in the light of recent investigations; the fundamental bases of the curriculum; the technique of production in curriculum revision; fundamental questions for consideration in making a community survey; major fields of production; and the available courses of study in line with the revision movement.
- *438. Education for Democracy and Defense. Cr. 3. S.**
Planned for the aid of all administrators and classroom teachers in answering the pressing question, "What is my school to do about education for democracy and defense?" The following topics are treated: education and human relations; education for common defense; the schools and the war; planning for democracy education; and future teachers of America.
- *439. Unit Teaching. Cr. 3. II.**
Unit theory in teaching; major purposes and guiding principles in unit building; chief approaches to unit construction; suggestive plans for developing an activity unit; and the integration of activity units in classroom procedures.
- *4311. Problems of the Elementary Curriculum. Cr. 3. I.**
Prerequisite: Nine hours in primary Education. Formerly The Primary Curriculum. The fundamental philosophy and psychological principles of curriculum construction and reorganization; scope; community relations and child inventories; selection of experiences and activities; methods of evaluating progress; materials and bibliographies.
- 511-2. Seminar. Cr. 1. S.**
Prerequisite: Graduate standing. Assignments, readings, reports, and discussions of recent educational problems. May be repeated once for credit.
- 530. Thesis. Cr. 3. I, II, S.**
Prerequisite: Graduate standing in Education. Investigation of special problems in education selected in conference with the instructor.
- *531. Educational Research. Cr. 3. I.**
Prerequisite: Graduate standing in Education. An examination of selected examples of published research. Method and techniques used in discovering, defining, and analyzing problems for investigation, in interpreting data and in formulating conclusions.
- *532. Foundations of Education. Cr. 3. S.**
Prerequisite: Graduate standing in Education. Survey of major social philosophies; their biological, psychological, and historical sources and their application to the field of education.
- *533. Activities Program for Teachers in the Elementary School. Cr. 3. S.**
Prerequisite: Graduate standing in Education. The theory and practice of the activities program; selection of typical units of work in each of the grades and their localization in the school.

- *534. Modern Tendencies in Education. Cr. 3. S.
Prerequisite: Graduate standing in Education. A discussion of current educational doctrines and controversies, in the light of their origins and present functions.
- *535. Business Administration of Schools. Cr. 3. S.
Prerequisite: Graduate standing in Education. A study of the business administration of a school system.
- *536. Educational Statistics. Cr. 3. I.
Prerequisite: Graduate standing in Education. An advanced course in the use of statistical measures, and their use in interpreting educational results.
- *537. Student Counseling. Cr. 3. S.
Prerequisite: Ed. 326, or its equivalent, and graduate standing. An advanced course in guidance for high school students. A study of clinical techniques, personality problems, educational and occupational orientation, and other problems incident to effective counseling.
- *538. Adult Education. Cr. 3. II.
Prerequisite: Graduate standing in Education. A study of the nature, extent, and significance of adult education.

PSYCHOLOGY

Courses offered in the long session; offered also in summer session on demand.

230. Introduction to Psychology. Cr. 3. I, II.
Prerequisite: Sophomore standing. Introduction to the study of mental processes: Lectures, recitations, and demonstrations illustrating the principles of general psychology.
231. Educational Psychology. Cr. 3. I, II.
Prerequisite: Sophomore standing. The principles of psychology and their application to education with emphasis upon the mental processes involved in the study of the various school subjects. The native responses of the child and their modification by education; the different types of learning; methods of memorizing; transfer of training and fatigue.
- *232. Psychology of Modern Elementary Education. Cr. 3. I, II.
The psychological principles involved in the mastery of elementary subject matter and the problems of childhood especially related thereto.
322. Advanced Educational Psychology. Cr. 2. S.
Prerequisite: Psy. 231, or its equivalent, and junior standing. The psychological processes in detail which have to do with school room situations, such as laws and principles of learning, how to study effectively, transfer of training, problems of heredity, individual differences, and measurements of intelligence.
- *331. Child Psychology. Cr. 3. II.
Prerequisite: Three hours in Psychology and junior standing. The psychology of childhood from infancy to early adolescence. The general nature, growth, and development of the child—emotionally, mentally, and socially.
- *333. Measurements in Education. Cr. 3. I.
Prerequisite: Junior standing in Education. The instruments and technique of measuring the results of instruction. Tests, tabulation, and established treatments of scores, interpretation, description, and uses of results for improving instruction.
- *335. The Psychology of Adolescence. Cr. 3. II.
Prerequisite: Three hours in Psychology. The interpretation of adolescent behavior on the basis of the developmental changes of the period. The important physical, mental, and moral changes natural to adolescence. Of special interest to all who deal with boys and girls of high school age.
337. General Psychology. Cr. 3. II.
Prerequisite: Psy. 230 or its equivalent. Continuation of Psy. 230. Problems, principles, and methods of psychology. Facts and theories current in general psychological discussion.
338. Business Psychology. Cr. 3. II.
Prerequisite: Three hours of Psychology. Psychology applied to advertising, salesmanship, employment, and industry.
- *431. Mental Tests. Cr. 3. II.
Prerequisite: Psy. 230 or 231. The principles, application, and technique of the various types of mental tests. Emphasis given to the theory of mental tests and to the application of such tests to the fields of education, business, and professions.

433. Mental Hygiene. Cr. 3.*I.**

Prerequisite: Psy. 230. The genesis of adequate personality. Discussions, lectures, readings. Topics: normal interests; constructive emotional attitudes and control; conflicts; rational analysis of everyday problems. Purpose: aid in attaining individual perspective and adjustment.

434 Social Psychology. Cr. 3.*II.**

Prerequisite: Psychology 230. Fundamental psychological principles as they apply to problems of the group; motivation of social behavior; development of social and anti-social attitudes; importance of early social training for adequate group participation.

Courses in this department which may be taken for graduate credit are: Ed. 331, 332, 334, 335, 336, 337, 338, 339, 3310, 3311, 3314, 3315, 3318, 411, 430, 431, 432, 433, 434, 435, 436, 438, 439, 4311; Psy. 322, 331, 333, 335, 337, 431, 433, 434, if an additional problem is done in each case; also Education 511-2, 530, 531, 532, 533, 534, 535, 536, 537, 538. If a three-hour course is listed here as acceptable credit, the corresponding two-hour course is acceptable under similar conditions. Credit may be received for only one such similar course.

For explanation of duplicate numbers of courses carrying both three and two-hour credit, see paragraph immediately preceding course descriptions in this department. Herewith are presented cross references of the course numbers so that these similar courses may be identified. Credit may be received for only one such similar course.

	Three-hour	Two-hour
Education	135	125
	233	223
	236	226
	237	227
	238	228
	331	321
	334	324
	335	325
	336	326
	337	327
	338	328
	339	329
	3310	3210
	3311	3211
	3314	3214
	3318	3218
	430	420
	431	421
	432	422
	433	423
	434	424
	435	425
	436	426
	438	428
	439	429
	4311	4211
	531	521
	532	522
	533	523
	534	524
	535	525
	536	526
	538	528
Psychology	331	321
	333	323
	335	325
	431	421
	433	423
	434	424

DEPARTMENT OF ENGLISH

PROFESSORS CUNNINGHAM, GATES, MILLS (EXECUTIVE COMMITTEE); ALLEN, DOAK, SMALLWOOD, STROUT.
ASSOCIATE PROFESSORS GUNN, McGEE*, MURPHY. ASSISTANT PROFESSORS CAMP, GILL, HORN, TEAGUE. INSTRUCTORS CARTER, CECIL, GRIFFIN, KENNEDY, WALTER. ASSISTANTS GEORGE, ISBELL.

English 131-2 is the required freshman composition course.

English 231-2 is required of all sophomore students in the Divisions of Arts and Sciences and Home Economics. A special course (English 233) is required of all sophomore Engineering students; this course combines a study of several masterpieces of English literature and considerable practice in technical writing. In the Division of Agriculture, English 234 (required of all sophomores) offers practice in composition on subjects related to the special interest of students in Agriculture.

Eight advanced courses (24 semester hours above sophomore rank) are required for an English major.

Each student following an English major is strongly urged to pursue work in a foreign language and literature. Other subjects which may be effectively correlated with an English major are speech, history, and journalism. English majors should take History 133-134.

131-2. Freshman Composition. Cr. 3. Each, I and II.
Prerequisite for all other courses in English. Essentials of correctness and effectiveness in general writing. Text studies, lectures, readings, tests, themes.

231-2. Introduction to Literature. Cr. 3. Each, I and II.
Prerequisite for all English courses above sophomore level. Lectures, readings, themes, and examinations. The masterpieces of English and American literature.

233. Technical Writing. Cr. 3. I, II.
Required of sophomore Engineering students. Essentials of correctness and effectiveness in technical writing. Regular themes. Long term report. Weekly readings in standard English and American literature.

234. Special Work on Correct Usage. Cr. 3. I, II.
Required of sophomores in the Division of Agriculture. Themes, reports, and much practical experience in writing.

Statement Of Prerequisites

The foundation courses of the first two years (English 131-2 and English 231-2 or their equivalent) are the general prerequisites for the courses which follow.

330. Chaucer. Cr. 3. I.
The Prologue, *Canterbury Tales*, *Troilus*, and lyrics, with some consideration of Chaucer's age, art, and sources.

332. History of the English Language. Cr. 3. II.
The development of the English language from the beginnings, with special reference to the use of English in America.

336. The Augustan Age. Cr. 3. II.
English literature from 1660 to 1740, exclusive of the novel and the drama. Poetry and prose of Dryden, Defoe, Addison and Steele, Swift, Pope, and some minor writers. Lectures, class discussions, class reports.

337. Grammar for Speech. Cr. 3. I.
Inflectional forms, sentence structure, and principles of English grammar that may be useful in other languages.

338. American Poetry: Bradstreet to Whitman. Cr. 3. I.
Interpretation of the most representative poems, classification as to type and theme, distinguishing quality and style of the individual writer, drill in forms, metrics, and figures.

*Deceased August 2, 1940.

339. American Poetry: Emily Dickinson to the Present. Cr. 3. II.
Trends, movements, and individual influences. The best poems of significant writers analyzed and appraised.
3310. The Teaching of English in the High School. Cr. 3. S.
Prerequisite: Eng. 231-2 and junior standing in Education. Effective methods; problems commonly found in the teaching of English in the high school. Class-room practice and demonstration.
3311. English in Business Practice. Cr. 3. I, II.
Principles of English composition embodied in the best business practice.
3312. Advanced Composition. Cr. 3. II.
Prerequisite: Eng. 131-2 with a grade as high as B, and sophomore English. A study for forcefulness and pleasingness in style, with much freedom as to kind of writing the student shall do.
3313. Contemporary English Poetry. Cr. 3. II.
Masefield, Dowson, Flecker, Brooke, Hardy, and others.
3314. Literary Aspects of the English Bible. Cr. 3. I.
Formerly described as *Biblical Literature*.
3315. The Contemporary Short Story. Cr. 3. II.
Formerly 530. Samplings of the work of outstanding contemporary writers, together with a study of patterns and considerable attention to writing the short story.
3316. The Contemporary American Novel. Cr. 3. I.
American fiction to Dreiser. Historical background. Selected works of Wharton, Lewis, Bromfield, Cather, Peterkin, Hergesheimer, Ferber, Tarkington, Wilder.
3317. The English Novel: Lyly to Scott. Cr. 3. II.
Formerly 532. Lectures on the development of the English novel; reading of such works as *Moll Flanders*, *Pamela*, *Joseph Andrews*, *Humphrey Clinker*, *The Castle of Otranto*, *Pride and Prejudice*, and *Guy Ramaning*.
3318. Types of English and Foreign Fiction: 1825 to 1910. Cr. 3. II.
The novels of Dickens, Thackeray, Emily Bronte, and Hardy; significant examples from foreign fiction.
3319. The Essay. Cr. 3. II.
A study of the development of the essay in English, with readings that begin with the early forerunners in Greece and Rome and extend to the representative English and American essays of the twentieth century.
3320. American Drama to 1930. Cr. 3. I.
Early amateur performances, professional companies, theatrical centers, rise of the star system, community organizations, screen influences, tendencies in dramatic vogue, representative plays of Godfrey, Tyler, Dunlap, Bird, Boucicault, MacKaye, Belasco, Thomas, Fitch, Crothers, O'Neill, and others.
3321. Current American Drama. Cr. 3. II.
Best plays of current production, length of runs, reports of dramatic critics on premieres, other criticisms and appraisals, playwrights and actors, screen versions of stage plays, outlook of dramatic entertainment.
431. Restoration and Eighteenth Century Drama. Cr. 3. II.
Representative plays. Dryden, Otway, Congreve, Farquhar, Goldsmith, and Sheridan. Sentimental comedy, bourgeois tragedy, comedy of manners, ballad opera, and other dramatic types.
432. Shakespeare. Cr. 3. I.
A close reading of the following plays: *Love's Labour's Lost*, *Richard III*, *Romeo and Juliet*, *Much Ado About Nothing*, *Measure for Measure*, *Hamlet*, *Othello*, *Antony and Cleopatra*, *The Tempest*. Some attention to the chief contributions to Shakespeare criticism.
433. Shakespeare. Cr. 3. II.
A close reading of the following plays: *Two Gentlemen of Verona*, *Richard II*, *The First Part of King Henry IV*, *Twelfth Night*, *All's Well That Ends Well*, *Julius Caesar*, *Macbeth*, *King Lear*, *The Winter's Tale*. Some attention to the chief contributions to Shakespeare criticism.
434. Milton. Cr. 3. I.
Milton's prose and poetry; the sources, structure, and metrical characteristics of *Paradise Lost*, and its place in English poetry.
435. English Romanticism. Cr. 3. I.
Pre-Romantic literature; the poetry and poetic principles of Wordsworth and Coleridge.

436. English Romanticism. Cr. 3. II.
The poetry of Scott, Shelley, Keats, and Byron; biography and background.
437. Pre-Shakespearean Drama. Cr. 3. I.
The development of comedy, tragedy, and chronicle history from early types of drama in England. The plays of Lyly, Peele, Greene, Kyd, and Marlowe.
438. Nineteenth Century English Prose. Cr. 3. I.
A critical study based upon selected works of masters of modern English prose—Hazlitt, Macaulay, Lamb, DeQuincey, Carlyle, Ruskin, Arnold, and Newman.
439. Contemporary Drama: Ibsen to Shaw. Cr. 3. I.
The dramatic works of Ibsen, Strindberg, Tolstoy, Chekhov, Hauptmann, Wedekind, Becque, Hervieu, Maeterlinck, Galsworthy, Barrie, and Shaw.
4310. English Poets of the Nineteenth Century. Cr. 3. I.
Reading in the poetry of Tennyson, Browning, E. B. Browning, and Matthew Arnold. Class discussions supplemented by lectures and by student reports.
4311. English Poets of the Nineteenth Century. Cr. 3. II.
Continuation of Eng. 4310. Selected reading from the poetry of D. G. Rossetti, Christina Rossetti, William Morris, Swinburne, Meredith, and a large group of minor poets down to Thomas Hardy. Lectures, class discussions, and written reports.
4312. The Age of Johnson: Johnson and His Circle. Cr. 3. II.
English literature from 1740 to 1798, exclusive of the novel. An introduction to Dr. Johnson, Boswell, Goldsmith, Burke, and their circle. Pre-Romanticists.
4313. Literary Biography. Cr. 3. II.
The biographical works of Cellini, Boswell, Franklin, Southey, Gosse, Strachey, and Bradford, as they reflect the social, and political conditions, the art, the science, and the literature of their times.
4314. Advanced Business English. Cr. 3. I.
Prerequisite: English 3311 with a grade as high as C. An advanced study of the more important kinds of business writing: sales letters, business promotion letters, the more difficult types of collection letters, adjustment and argumentative correspondence, handling inquiries, interoffice communications, preparation of form letters.
4315. Elizabethan Lyric. Cr. 3. I.
A study of the chief Elizabethan lyric poets: Shakespeare, Sidney, Spenser, Donne, Campion, and Jonson.
4316. The Structure of the Novel. Cr. 3. II.
Formerly 5310. The elements of the novel. The principles of craftsmanship which make for effective fiction.
533. Elizabethan Drama. Cr. 3. II.
534. Old English. Cr. 3. I.
536. Outline of American Literary History: 1608 to the Present. Cr. 3. II.
537. Spenser. Cr. 3. II.
538. Studies in the English Romantic Poets. Cr. 3. II.
539. American Critical Theories. Cr. 3. I.
5311. Literary Criticism. Cr. 3. II.
- 5312-13. Thesis Course. Cr. 3-6. I and II.
Prerequisite: Graduate standing. Credit depends upon amount and quality of work done.

The following English courses may be taken for graduate credit if an additional problem is carried: 330, 332, 336, 337, 338, 339, 3313, 3314, 3315, 3316, 3317, 3318, 3319, 3320, 3321, 431, 432, 433, 434, 435, 436, 437, 438, 439, 4310, 4311, 4312, 4313, 4315, 4316.

English 533, 534, 536, 537, 538, 539, and 5311 are for graduates only and require no additional problem.

DEPARTMENT OF FOREIGN LANGUAGES

PROFESSOR QUALIA. ASSOCIATE PROFESSORS *WHATLEY,
HENNINGER, GATES. ASSISTANT PROFESSORS STREHLI, DINGUS.
INSTRUCTORS ALDEN, **HAMILTON.

The Department of Foreign Languages offers instruction in German, French, Latin, and Spanish. Sufficient work is offered for a major in all of these languages except German. Courses leading to the Degree of Master of Arts are offered in Spanish.

Students following a major in one foreign language are strongly urged to pursue work in a second foreign language and in English. Other fields which may be effectively combined with a foreign language are speech, the social sciences, and journalism.

Students majoring in a foreign language must offer 36 semester hours, if they satisfy the language requirements for a degree in the same language. Students are urged to satisfy their foreign language requirement in another language, however. In this case, 24 semester hours are sufficient for a major.

Those expecting to major in a foreign language should consult with the head of the department.

FRENCH

131-2. A Beginning Course in French. Cr. 3. I and II.
Grammar, reading, and oral practice.

231-2. A Reading Course in French. Cr. 3. I and II.
Prerequisite: French 131-2, or two units of high school French.

331-2. A Rapid Reading Course. Cr. 3. I and II.
Prerequisite: French 231-2 or equivalent. For third-year science students and others who wish to acquire facility and ease in reading modern French. Enough grammar and composition to build a solid foundation.

431-2. The Modern Drama. Cr. 3. I and II.
Prerequisite: French 331-2 or its equivalent. The drama from 1636 to 1900. Offered in alternate years; not offered in 1941-42.

433-4. The Literature of the Nineteenth Century. Cr. 3. I and II.
Prerequisite: French 331 or its equivalent. A study of the prose and poetry of the nineteenth century, exclusive of the drama. Offered in alternate years; offered in 1941-42.

435-6. Readings in French Literature. Cr. 3.
Formerly French 531-2. Prerequisite: French 331-2 or the equivalent. Directed study with individual conferences and written reports to enable students who are majoring in French to investigate those periods of French literature not treated in other courses. Required of majors in French.

GERMAN

131-2. A Beginning Course in German. Cr. 3. I and II.
Grammar, reading, and oral practice.

231-2. A Reading Course in German. Cr. 3. I and II.
Prerequisite: German 131-2, or two units of high school German or the equivalent. Reading of standard literary texts. Grammar review with oral and written practice.

233-4. Scientific German. Cr. 3. I and II.
Prerequisite: German 131-2, or two years of high school German or the equivalent. The reading of specially prepared scientific texts in German with grammar review to assist in the interpretation. For pre-medical and science students in general.

LATIN

A student credited with four admission units in Latin should take Latin 331-2. Such a student, on completing the work of 331-2 with an average of B, will be given degree credit for four semester hours in addition to the value

*On leave during 1940-41.

**Appointed for the long session, 1940-41.

of Latin 331-2, in case the total number of his admission credits is at least sixteen; for two semester hours, if the total is fifteen and a half.

Students taking Latin 133 may, by special arrangement with the department, use this course in partially satisfying the degree requirements in foreign languages.

111-2. Writing Course. Cr. 1. I and II.
Required of all students wishing the recommendation of the department as teachers of Latin. Strongly recommended for all students taking Latin 231-2 or 331-2.

131-2. A Beginning Course in Latin. Cr. 3. I and II.
Forms, word formation, the fundamentals of syntax, and easy reading. Especially recommended for students preparing for law or medicine, as well as for those electing Latin for degree requirements.

133. Latin Terminology. Cr. 3. I.
Practical Latin especially for students majoring in scientific or professional courses who have had no Latin. The minimum essentials of Latin grammar; emphasis on word analysis by study of root words, prefixes, and suffixes. Word lists, charts, and myths relating to special subjects.

231-2. Reading and Composition. Cr. 3. I and II.
Prerequisite: Latin 131-2 or two units of high school Latin. Selections from Caesar, Cicero, and Virgil. A review of Latin grammar; informal instruction in mythology and antiquities.

331-2. Virgil's *Aeneid*, Introduction to Horace, Cicero's *De Senectute*, The *Phormio* of Terence. Cr. 3. I and II.
Formerly Latin 233-4. Prerequisite: Latin 231-2 or four units of high school Latin.

431-2. Senior Reading. Cr. 3. I and II.
Prerequisite: Latin 331-2. Formerly Latin 331-2. Medieval Latin. A survey of Ovid's works with emphasis on the *Metamorphoses*. Offered in alternate years; offered in 1941-42.

433-4. Advanced Reading. Cr. 3. I and II.
Prerequisite: To be determined by the instructor. Formerly Latin 333-4. Offered at intervals.

SPANISH

131-2. A Beginning Course in Spanish. Cr. 3. I and II.
Grammar, reading, and conversation.

231-2. Grammar, Reading, Composition, and Conversation. Cr. 3. I and II.
Prerequisite: Spanish 131-2, or two units of high school Spanish.

331-2. Contemporary Literature. Cr. 3. I and II.
Prerequisite: Spanish 231-2, or three or four units of high school Spanish. Spanish literature from the beginning of the Romantic movement to the present. Reading of representative novels, dramas, and lyrics. Collateral readings and composition based on readings. Conducted chiefly in Spanish. Spanish 331-2 and Spanish 333-4 may not both be counted toward a degree.

333-4. Introduction to Latin American Life and Literature. Cr. 3. I and II.
Prerequisite: Spanish 231-2, or three or four units of high school Spanish. The history, geography, literature, customs, and economic conditions of Spanish-American countries. Conducted in Spanish. Spanish 331-2 and Spanish 333-4 may not both be counted towards a degree.

431-2. The Modern Novel. Cr. 3. I and II.
Prerequisite: Spanish 331-2 or its equivalent. Certain nineteenth century novels representing the various tendencies and regions. Lectures. Written reports. Conducted chiefly in Spanish. Offered in alternate years; not offered in 1941-42.

433-4. The Modern Drama. Cr. 3. I and II.
Prerequisite: Spanish 331-2 or its equivalent. The drama from the Romantic movement to the present. Conducted chiefly in Spanish. Offered in alternate years; offered in 1941-42.

435. Teacher's Course in Methods of Teaching Spanish. Cr. 3. S.
Prerequisite: Spanish 331-2 and one year of Education. Preparation for teaching Spanish in high school. Scientific and practical methods with as much practice work as possible.

436-7. Advanced Grammar, Composition, and Style. Cr. 3. S.
Prerequisite: Spanish 331-2, or its equivalent. Recommended for those who intend to teach Spanish.

438. The Drama before Lope De Vega. Cr. 3.

Prerequisite: Spanish 331-2 or the equivalent. The development of drama in Spain from medieval times to Lope; emphasis on the immediate predecessors of Lope. Offered at intervals.

4310-11. Spanish Civilization. Cr. 3.

S.

Prerequisite: Spanish 331-2 or the equivalent. An outline study of the various phases of Hispanic civilization: history, arts, language, literature. Offered at intervals; offered in summer, 1941.

4312-13. The Prose of the Golden Age. Cr. 3.

I and II.

Formerly Spanish 531-2. Prerequisite: Spanish 331-2. The important prose writers from 1499 to 1650. Reading of representative works, lectures, collateral reading, and reports. Conducted chiefly in Spanish. Offered in alternate years; not offered in 1941-42.

4314-15. The Drama of the Golden Age. Cr. 3.

I and II.

Formerly Spanish 533-4. Prerequisite: Spanish, 331-2 or its equivalent. The drama of the seventeenth century. Reading of representative plays; lectures, discussion, collateral reading, and reports. Conducted chiefly in Spanish. Offered in alternate years; offered in 1941-42.

4316-17. A Survey of Spanish Literature. Cr. 3.

I and II.

Formerly Spanish 535-6. Prerequisite: Spanish 331-2. The history of Spanish literature from the twelfth to the nineteenth century. Emphasis upon the principal movements and the works of outstanding writers. Readings, lectures, and written reports. Conducted chiefly in Spanish. Especially recommended for students who expect to teach Spanish. Required of all candidates for the M. A. degree.

4318. Contemporary Drama. Cr. 3.

S.

Formerly Spanish 537. Prerequisite: Spanish 331-2 or the equivalent. Intensive study of some representative dramas of living authors and rapid reading of others. Written reports. Offered at intervals; offered in summer, 1941.

4319. Introduction to the Study of the Epic Literature of Spain. Cr. 3.

Formerly Spanish 538. Prerequisite: Spanish 331-2 or the equivalent. A study of the epic and the ballad. Offered at intervals, when demand justifies.

4320. Contemporary Spanish Novel. Cr. 3.

Formerly Spanish 539. Prerequisite: Spanish 331-2 or the equivalent. Intensive study of some representative novels of living authors and rapid reading of others. Written reports. Offered at intervals, when demand justifies.

4321. The Poetry of the Golden Age. Cr. 3.

Formerly Spanish 5310 and 638. Prerequisite: Spanish 331-2. An intensive study of the major poets of the sixteenth and seventeenth centuries. Offered at intervals, when demand justifies.

4322. The Poetry of the Eighteenth and Nineteenth Centuries. Cr. 3.

Formerly Spanish 5311 and 5316-17. Prerequisite: Spanish 331-2 or the equivalent. An intensive study of the major poets of the schools of Seville and Salamanca, of the romantic school, including Becquer, Campoamor, and Nunez de Arce. Offered at intervals, when demand justifies.

4323. Cervantes. Cr. 3.

Formerly Spanish 5318 and 635. Prerequisite: Spanish 331-2 or the equivalent. A study of the life and major works of Cervantes with emphasis on *Don Quijote*. Offered at intervals, when demand justifies.

5312-13. Studies in Spanish Literature. Cr. 3.

Formerly Spanish 5310-11. Prerequisite: The consent of the head of the department. The nature and content of this course will vary to meet the needs of the individual student. Credit will be determined by the amount and character of work done.

5314-15. Thesis Course. Cr. 3-6.

Formerly Spanish 631-2. Prerequisite: Graduate standing. Credit depends upon amount and quality of work done.

The following courses in the department may be taken for graduate credit: Spanish 431-2, 433-4, 435, 436-7, 438, 4310-11, 4312-13, 4314-15, 4316-17, 4318, 4319, 4320, 4321, 4322, 4323, if an additional problem is carried; also Spanish 5312-13, 5314-15; French 431-2, 433-4, 435-6; Latin 431-2, 433-4, if an additional problem is carried.

DEPARTMENT OF GEOLOGY AND PETROLEUM
ENGINEERINGPROFESSORS PATTON, STAINBROOK. ASSOCIATE PROFESSORS
ROBINSON, SIDWELL. ASSISTANT PROFESSOR GLOCK.
INSTRUCTOR HORN.

The work of the department is planned for those who desire a general knowledge of geology for cultural purposes, for those selecting geology to fulfill science requirements, and especially for those desiring professional training in preparation for entering the petroleum industry.

Students wishing training in geology for the purpose of entering professional work may secure such training either in the curriculum leading to the degree of Bachelor of Science, major in Geology, in the Division of Arts and Sciences; or in the curriculum of Petroleum Engineering, Geology option or Geophysics option, in the Division of Engineering. The instruction in geology is the same in all three curricula.

In the curriculum leading to the degree of Bachelor of Science with major in Geology in the Division of Arts and Sciences, emphasis is placed on fundamental training in other sciences, as well as in geology, and upon languages. In the Geology and Geophysics options in the curriculum of Petroleum Engineering, training in geology is accompanied by thorough training in fundamental engineering subjects.

The curriculum of Petroleum Engineering in the Division of Engineering contains a third option known as Production Option. In this option the content of geology is decreased and certain specialized courses in production methods, together with certain courses in mechanical engineering, are added. This option is intended for those who wish to enter the production departments of oil companies and not for those who wish to enter the geological or geophysics departments.

Courses numbered 333 and above are primarily for advanced undergraduates. Courses numbered 511 and above are for graduate students only.

GEOLOGY

131-2. General Geology. Cr. 3, (2-3). I and II.
Physical and historical geology. Present day geologic processes followed by applications of these principles to the interpretation of the geologic record. A foundation course for further work in geology. May also serve for cultural purposes.

231. Mineralogy. Cr. 3, (1-6). I, II.
Prerequisite or parallel: Geol. 131-2, Chem. 131-2. Principles of crystallography; methods of identification of minerals; blowpipe analysis; occurrence and properties of minerals.

233. General Geology for Engineers. Cr. 3, (2-3). I.
Similar to Geol. 131-2 but a shorter course adapted to the special needs of Engineering students other than Petroleum Engineering students; especially for students in Civil Engineering.

234. Elementary Structural Geology: Structures of the Earth's Crust. II.
Cr. 3.
Prerequisite: Geol. 131-2, 231. A classification and description of surface and near surface structures, especially those of sedimentary and igneous rocks.

312. Silver Prospecting. Cr. 1. II.
The characteristic features of silver veins with special reference to their identification in the field. A study of field laboratory methods of determining silver minerals and estimating the worth of the ore is included. Offered in alternate years; not offered in 1941-42.

314. Gold Prospecting. Cr. 1. II.
The occurrence and association of gold ores with a statement of field methods used in the search of gold. A study of laboratory methods which may be adapted to field conditions and used in determining gold bearing rock and its value is included. Offered in alternate years; offered in 1941-42.

333. Petrology: Optical Mineralogy. Cr. 3, (1-6). I.
Prerequisite: Geol. 131-2, 231-2. Principles and methods of study and identification of rock forming minerals by means of the petrographic microscope. Special emphasis upon the minerals of the insoluble residues of sedimentary rocks.
334. Petrology: Descriptive. Cr. 3, (1-6). II.
Prerequisite: Geol. 333. Application of the principles of optical mineralogy to the study and identification of rocks; principles of rock classifications and practice in both megascopic and microscopic classifications.
- 335-6. General Paleontology. Cr. 3, (2-3). I and II.
Prerequisite: Geol. 131-2, junior standing. The detailed structure, basis of classification, and geologic history of the various groups of invertebrates. The vertebrates and plants studied similarly, but less comprehensively.
363. Field Geology. Cr. 6. S.
Prerequisite: Geol. 131-2. Principles of stratigraphy, structural geology, and methods of geological surveys. Given in the field. For further details, see special announcements of the Department of Geology. Required of all majors in Geology.
- 411-2. Geology of Texas. Cr. 1. I and II.
Prerequisite: Twelve semester hours in Geology. Physical and historical geology of Texas.
- 413-4. Seminar. Cr. 1. I and II.
Prerequisite: Junior or senior standing. Assigned readings, reports, and discussions of current geological problems.
- 427-8. Geophysics. Cr. 2, (1-3). I and II.
Prerequisite: Phys. 131-2 and 24 hours in geology. Theory and practice in methods of geophysical exploration including practical geophysical surveys.
- 431-2. Advanced General Geology. Cr. 3. I and II.
Prerequisite: Geol. 131-2, 231-2, and 235-6. The outstanding problems in physical and historical geology. Readings in the original literature of each subject.
433. Structural Geology. Cr. 3. I.
Prerequisite: Geol. 333-4, 335-6. Deformation and structures of rocks with special emphasis on the relation of these to economic problems.
434. Petroleum Geology. Cr. 3. II.
Prerequisite: Geol. 433. Problems of the origin and accumulation of oil deposits; assembling and interpretation of data bearing on problems peculiar to certain fields. For students expecting to engage in the exploration and development of oil fields.
435. Index Fossils. Cr. 3, (1-6). I.
Prerequisite: Geol. 335-6. The stratigraphy and different horizon markers of the different systems with practice in making and identifying field collections.
435. Micropaleontology. Cr. 3, (1-6). II.
Prerequisite: Geol. 335-6. Foraminifera and other microfossils of the oil bearing strata of Texas; methods of collection and preparation.
- 437-8. Sedimentation. Cr. 3. I and II.
Prerequisite: 24 semester hours in Geology, including Geol. 333-4. Advanced investigation. The processes and results of sedimentation; analytic laboratory work in sediments. Special attention to subsurface methods. Occasional laboratory exercises substituted for lectures.
- 511-2. Research Methods. Cr. 1. I, II.
Prerequisite: Graduate standing in Geology and consent of head of the department. Methods of outline and attack; reconnaissance of the problem; main objective; tangential objectives; nature of evidence; states of knowledge; permissible conclusions. The preparation of effective reports and the technique of publication. Analysis of selected scientific articles. Practical experience with chosen problems.
- 531-2. Advanced Sedimentation. Cr. 3. I and II.
Prerequisite: Graduate standing in Geology and consent of head of the department. Individual investigation to determine the characteristics of sediments in the different environments; emphasis on relation of diastrophism and climate on origin of sediments. Offered in 1941-42.
533. Stratigraphy of the United States. Cr. 3. I, II.
Prerequisite: Graduate standing in Geology and consent of head of the department. A survey of formations of economic importance of the United States with study of the principles of correlation and their application. Offered in 1942-43.

534. Structure of Oil and Gas Reservoirs. Cr. 3. I, II.
Prerequisite: Graduate standing in Geology and consent of head of the department. One hour conference each week and six hours of library work. Detailed examination of the form and cause of selected productive structures. With the facts derived from published reports of field studies, the student will be encouraged to set up many hypotheses and to select those of greatest value. Offered in alternate years; offered in 1941-42.

535-6. Advanced Work in Specific Fields. Credit varies. I, II.
Prerequisite: Graduate standing in Geology and consent of head of the department. Course and credit to depend upon the preparation and need of the student and the work done. Each course taken under these numbers will regularly carry a sub-title describing the course.

539-10. Thesis. Cr. 3-6. I, II.
Research and preparation of report. Credit depends upon amount and quality of work done.

5311. Paleoclimatology. Cr. 3. I.
Prerequisite: Graduate standing in Geology and consent of head of the department. Distribution of climate on the earth. The evidences of climate in land forms, sediments, plants, and animals. Application to geologic history. Offered in 1942-43.

5312. Paleocology. Cr. 3. II.
Prerequisite: Graduate standing in Geology and consent of head of the department. A treatment of the fundamental factors of climate physiography, soils, and ocean currents. A consideration of plant distribution and resume of geologic history of land plants. Especial emphasis on tree growth and ecologic factors controlling it; tree "rings", tree growth, chronology, and climate. Offered in 1942-43.

GEOGRAPHY

131-2. Principles of Geography. Cr. 3. I and II.
Geographic factors especially as they affect the activities of man. The geography of one of the continents taken up in detail in second semester. Special emphasis upon relief, development, industries, and communication.

PETROLEUM ENGINEERING

331. Drilling and Development. Cr. 3. I.
Prerequisite: Geol. 131-2, Chem. 131-2, and junior standing. Exploration methods; standard and rotary drilling and completion methods; oil field hydrology; core analysis. Problems.

333. Production Engineering. Cr. 3. II.
Prerequisite: Math. 251 and 233, Petr. Engr. 331. Laws of fluid flow; reservoir hydrodynamics; study of flowing, air-gas lift, and pumping wells. Problems.

411. Seminar. Cr. 1. I.
Prerequisite: Senior standing. Assigned readings, reports, and discussion of current problems in petroleum and natural gas engineering.

421. Oil Field Testing Methods. Cr. 2, (0-6). I.
Prerequisite: Petr. Engr. 333 and registration in Petr. Engr. 432. Theory and practical application in the laboratory of tests used in oil field practice.

432. Advanced Production Engineering. Cr. 3. I.
Prerequisite: Petr. Engr. 333. A continuation of Petr. Engr. 333; secondary methods of recovery; field refining storage; transportation; oil field management. Problems.

433. Special Problems in Petroleum Production. Cr. 3, (2-3). II.
Prerequisite: Petr. Engr. 432, C. E. 332 and 333, M. E. 334 and 335. Special problems in selection of equipment for oil industry, including determination of power requirements, choice of materials, and cost estimates.

434. Natural Gas Engineering. Cr. 3, (2-3). II.
Prerequisite: Petr. Engr. 333, M. E. 334 and 335. Methods of production, metering, transportation, and testing of natural gas. Problems.

The following courses in this department may be taken for graduate credit: Geol. 333, 334, 335-6, 363, 411-2, 413-4, 427-8, 431-2, 433, 434, 435, 436; Petr. Engr. 331, 333, 411, 421, 433, 434, provided a special problem is done in each course; also Geol. 511-2, 531-2, 533, 534, 535-6, 539-10, 5311, 5312.

DEPARTMENT OF GOVERNMENT

PROFESSORS PENDER, *OGDON. ASSOCIATE PROFESSOR JACKSON.
INSTRUCTORS DAVIS, RIETHMAYER, BOCK, **CROSLIN, **BENTON.

The study of government aims to train and prepare men and women for responsible citizenship, intelligent voting, efficient public service, leadership in public affairs, the holding of public office, and the organization of public opinion.

Government 131-2 or some other course in American government carrying six hours credit is required of all students. Government 131-2 may be taken to satisfy legal requirements for certification and graduation, and also to absolve a part of the catalogue social science requirements for graduation.

131. American Government, National. Cr. 3 I, II.
A fundamental course. The constitution, principles, organization, and actual workings of the national government. Emphasis upon the duties and obligations of citizenship.
132. American Government, State. Cr. 3. I, II.
The constitution and framework of the government of Texas: Comparison with other state governments.
231. Introduction to Political Science. Cr. 3. I.
Prerequisite: Sophomore standing. The origin, development, and functions of political institutions in connection with consideration of political theories.
232. Modern Governments. Cr. 3. II.
Prerequisite: Sophomore standing. A comparative study and analysis of the constitutional organization of the governments of England, France, Switzerland, Germany, Russia, and other states to be selected.
321. Introduction to the Study of Law. Cr. 2.
Prerequisite: Junior standing and Govt. 131-2, 231-2, or the equivalent. Definition of legal terms, the nature of law, sources of law, modes of legal growth, courts and the judicial function, the judicial process, legal concepts, divisions of law, current legal problems and recent trends in jurisprudence. Offered when demand justifies.
- 325-6. Contemporary Problems. Cr. 2. I and II.
Prerequisite: Junior standing and one course in American Government. A lecture course in the modern trends of government, dealing with the solution of the current problems of the individual and society through governmental processes.
331. Local Government. Cr. 3. I.
Prerequisite: American Government. The machinery of city and county government; the forms—both new and old—of municipal government; inter-departmental relations and the relations of local governments to state. Offered in alternate years; offered in 1941-42.
332. Local Administration. Cr. 3. II.
Prerequisite: American Government. The chief problems of present day local administration; special stress placed upon administration of Texas cities and counties. Offered in alternate years; offered in 1941-42.
333. American Political Parties, Party Development. Cr. 3. I.
Prerequisite: American Government. The origin and development of political parties in the United States. Offered in alternate years; offered in 1941-42.
334. American Political Parties, Party Analysis. Cr. 3. II.
Prerequisite: American Government. Party functions, organization, finance, campaign methods, and elections. Offered in alternate years; offered in 1941-42.
335. American Foreign Relations. Cr. 3. I.
Prerequisite: American Government. The control and conduct of the relations of the United States with the outside world. Offered in alternate years; not offered in 1941-42.
336. American Diplomacy. Cr. 3. II.
Prerequisite: American Government. Foreign policies of the United States. Topical treatment. Offered in alternate years; not offered in 1941-42.
337. Public Administration, Organization. Cr. 3. I.
Prerequisite: American Government. Principles of administrative organization; structure of all units of government; powers, duties, and responsibilities of officers; administrative reorganizations. Offered in alternate years; not offered in 1941-42.

*On temporary leave beginning January 1, 1940.

**Temporary appointment, 1940-41.

338. Public Administration, Procedure. Cr. 3. II.
Prerequisite: American Government. Problems of national, state, and local units of government, including cost of government, budgeting, accounting and reporting, purchase and supply, personnel, promotion and demotion, removal and retirement. Offered in alternate years; not offered in 1941-42.
339. American Government, Institutions. Cr. 3. I.
Prerequisite: Junior standing. The constitutions, organizations, and institutions of the national, state, and local governments of the United States and Texas.
3310. American Government, Functions. Cr. 3. II.
Prerequisite: Junior standing and one course in American Government. Functions and services of national, state, and local governments of the United States and Texas as they affect the welfare of the individual and society.
- 431-2. American Constitutional Law. Cr. 3. I and II.
Prerequisite: American Government or American History. Interpretation of the Constitution of the United States based principally upon Supreme Court decisions. The leading cases in American constitutional law analyzed. Offered in alternate years; offered in 1941-42.
- 433-4. American Political Ideas. Cr. 3. I and II.
Prerequisite: American Government or American History. The lives and ideas of leading political thinkers of the United States from the colonial period to the present. Offered in alternate years; not offered in 1941-42.
- 435-6. International Law. Cr. 3. I and II.
Prerequisite: American Government or six semester hours in history. The fundamental principles of international law with special emphasis upon American interpretations and American contributions to the growth of the law. Offered in alternate years; not offered in 1941-42.
437. Political Geography. Cr. 3. I.
Prerequisite: Junior standing. Geographic factors in political problems and in the development of political institutions, the main problems of politics in their relation to world geography. Offered in alternate years; offered in 1941-42.
438. World Politics. Cr. 3. II.
Prerequisite: American Government or six semester hours in history. Problems and issues which have arisen in the family of nations; organizations and efforts to cope with these problems; the principles of international conduct. Offered in alternate years; offered in 1941-42.
- 531-2 Reading and Research. I and II.
For individual student needs. The number of semester hours determined by the amount, nature, and character of work done.
- 533-4. Thesis.
Credit varies with character of work.
- Courses in this department which may be taken for graduate credit are: Govt. 321, 325, 326, 331, 332, 333, 334, 335, 336, 337, 338, 431, 432, 433, 434, 435, 436, 437, 438, if an additional problem is carried; also 531, 532, 533, 534.

DEPARTMENT OF HISTORY AND ANTHROPOLOGY

PROFESSORS HOLDEN, EAVES, McKAY, KINCHEN.
INSTRUCTORS WALLACE, PEARCE.

This department offers courses designed to give a knowledge of the cultural aspirations of the past and of man's efforts to care for the material needs of society through certain economic structures and changing political organizations. The origin and development of present-day institutions receive major consideration.

Courses numbered under 300 are introductory and are intended for freshmen and sophomores; courses numbered 300 are advanced European history courses; courses numbered 400 are advanced American history courses; either of the last two series is open to students with junior standing or above. Each semester course may be regarded as an independent unit; however, the student should take courses in their regular sequence.

Students of junior standing, whose major subject is other than history, may, with the permission of the head of the department, elect courses in history without having done the prerequisite work required of history majors.

History majors presenting not more than two units of high school history credits upon entrance will be required to take at least six courses (36 semester hours), one of which must be Anthropology 331-2. Majors presenting three or more units of high school history will be required to take at least five courses (thirty semester hours) one of which must be Anthropology 331-2.

Advanced courses are given in alternate years. Because of this, the student with history major should begin planning his advanced courses at the earliest date practicable. Students with history majors should take History 131-2 and History 231-2 before entering advanced courses.

History 131-2 or junior standing is prerequisite for courses in Anthropology.

Statement of Prerequisites

For students majoring in history, History 131-2 and History 231-2 are prerequisite for history courses numbered 300 and above. With the permission of the head of the department, History 133-4 may be substituted for 131-2.

HISTORY

- 131-2. History of Civilization. Cr. 3. Each, I and II.**
The rise of civilization in Egypt, Babylonia, and Crete; its expansion to Western Europe, through Greece and Rome; ancient religions and the beginning of Christianity; the medieval church; feudalism; the crusades; the Renaissance; the Protestant revolt; the rise of the modern state; the industrial revolution; the World War. First semester, prior to 1350 A. D.; second semester, since 1350 A. D.
- 133-4. Economic and Political History of England. Cr. 3. Each, I and II.**
The economic, legal, and cultural development of the English people. Open to all students, but required of English and Pre-law majors. First semester, prior to 1603; second semester, since 1603.
- 231-2. Economic and Political History of the United States. Cr. 3. Each, I and II.**
Prerequisite: for Pre-law and English majors, 133-4; for History majors, either 131-2 or 133-4. Discovery, colonization, colonial institutions, the Revolution, the Confederation, the Constitution, growth of nationalism; slavery, expansion, sectionalism; Civil War, Reconstruction, new industrial and social problems, domestic and foreign problems of modern America. First semester, to 1865; second semester, 1865 to the present.
- 330. Teaching History in High Schools. Cr. 3. S.**
Prerequisite: Twelve semester hours in History. Modern technique of teaching history in junior and senior high schools. Credited as either History or Education. Offered in summer of 1941.
- 331-2. History of Europe Through the Renaissance. Cr. 3. I and II.**
Prerequisite: History 131-2 and junior standing. Greek civilization, Roman civilization, and the Renaissance; the background of modern European civilization. Offered in alternate years; offered in 1941-42.
- 333-4. Modern Europe, 1492-1870. Cr. 3. I and II.**
The Reformation; the development of nationalism and enlightened despotism; the French Revolution and Napoleon; the Metternich system and the Revolution years of 1830 and 1848; the unification of Italy and the unification of Germany; the Franco-Prussian War. Offered in alternate years; not offered in 1941-42.
- 336-7. Tudor and Stuart England. Cr. 3. I and II.**
The establishment of a strong monarchy; the break with the Roman church; the rise of English sea power; the contest between king and parliament; civil war; the Commonwealth and the Restoration; supremacy of Parliament and England's early colonial policies. Offered in alternate years; not offered in 1941-42.
- 338-9. Eighteenth and Nineteenth Century England. Cr. 3. I and II.**
The rise of the cabinet; the fight for colonial supremacy; Whig versus Tory; the industrial revolution; the Napoleonic contest; the reforms in agriculture; the Irish question; the development of the British Commonwealth of Nations; the World War and subsequent problems. Offered in alternate years; offered in 1941-42.
- 3311. The Canadian Dominion. Cr. 3. S.**
A study of the evolution of the Dominion of Canada, from early beginnings to the present times, and the relationship of Canada to the other autonomous states within the British Empire. Offered in alternate summers; offered in summer of 1941.

- 3313-14. Contemporary Europe, 1870-1936. Cr. 3. I and II.
Internal, nationalistic, and imperialistic trends in Great Britain, Germany, France, Russia, and Italy; the World War, its aftermath, and present-day Europe. Offered in alternate years; not offered in 1941-42.
3315. Japan and China. Cr. 3. II, S.
The social, economic, and political background for Japan's imperialistic policy toward China. Offered in alternate summers; not offered in summer of 1941.
3316. British Empire. Cr. 3. II.
A study of the evolution of the British Empire, and its recent transformation in the present Commonwealth of British Nations. Special attention will be given to Canada and its relations with other autonomous states within the Empire.
3317. The Contemporary European War. Cr. 3. S.
The social, economic, and political background of the war of 1939, and its important developments. Not offered in summer of 1941.
430. English Colonial America. Cr. 3. S.
English explorations and early efforts at settlement; colonial beginnings in the South and in New England; the development of American institutions and culture; the rise of economic problems and distinct colonial institutions. Offered in alternate summers; not offered in summer of 1941.
- 431-2. History of Latin America. Cr. 3. I and II.
Exploration, colonization, revolution, political development, social and economic problems, and Pan-American relations. Offered in alternate years; not offered in 1941-42.
- 433-4. The American Revolution and Early Constitutional Development
Cr. 3. I and II.
The causes and progress of the American Revolution; French aid; the Loyalists; English sentiment; finances; the Peace Treaty of 1783; the Confederation; formation and adoption of the Constitution; governmental organization; adoption of the early amendments. Offered in alternate years; offered in 1941-42.
435. History of American Diplomacy. Cr. 3. S.
The diplomacy of the revolutionary, federalist, and republican periods; the Monroe doctrine; the Mexican problems; Civil War diplomacy; the Caribbean policies; the World War. Offered in alternate summers; offered in summer of 1941.
- 436-7. History of the United States, 1789-1837. Cr. 3. I and II.
The federalist and republican periods; second war with Great Britain; the rise of nationalism and the Jacksonian era. Offered in alternate years; offered in summer 1941.
- 438-9. History of Texas. Cr. 3. I and II.
Exploration, colonization, revolution, the republic, statehood, expansion of the frontier across West Texas, and modern social and economic problems. Offered in alternate years; offered in 1941-42.
4310. Expansion of the United States. Cr. 3. S.
A detailed study of the Peace Treaty of 1783; the purchase of Louisiana; acquisition of Florida; annexation of Texas; the Oregon controversy; the Mexican cession; the Gadsden Treaty; the purchase of Alaska; the acquisition of our insular possessions. Offered in alternate summers; not offered in summer of 1941.
- 4311-12. The Civil War and Reconstruction. Cr. 3. I and II.
Economic, political, and social history of slavery in the United States; the old South; secession; the economic problems of the Civil War; the South after the war; reconstruction policies; radical rule and its overthrow; the disputed presidential election of 1876-77. Offered in alternate years; not offered in 1941-42.
- 4313-14. The United States Since the Civil War. Cr. 3. I and II.
Economic and social adjustments after the Civil War; the increase in manufacturing and creation of new industries; big business; tariff; Spanish-American War; Progressivism; the World War. Offered in alternate years; offered in 1941-42.
4315. Constitutional Developments in Texas. Cr. 3. S.
Constitution of the Republic of Texas; early statehood; the Civil War decade; formation and adoption of the Constitution of 1876; amendments and present tendencies. Offered in alternate summers; not offered in summer of 1941.
- 4316-17. The United States Since the World War. Cr. 3. I and II.
Post war readjustments; return of the Republicans; economic policies, agriculture; life in the 1920's; the New Deal and its record; life in the 1930's. Not offered in the summer of 1941.
4318. Exploration of the West. Cr. 3. I.
A study of the early explorers of North America; de Vaca, Coronado, the French voyageurs, the fur traders, Lewis and Clark, Pike, and Powell.

530. Seminar in History. Cr. 3. I, II, S.
Prerequisite: Graduate standing. Credit given as often as the course is repeated.
535. The Technique of Research. Cr. 3. I, S.
Prerequisite: Graduate standing. Bibliography, sources, methods of gathering material, evaluation, elimination, assimilation, organization, and composition. Lectures, projects, and readings. Required of graduate students whose major is History.
- 536-7. Thesis Course. I, II, S.
Prerequisite: Graduate standing. Credit given on the basis of amount of work done in preparation of thesis.

ANTHROPOLOGY

- 331-2. Anthropology. Cr. 3. I and II.
Prerequisite: History 131-2 and junior standing. Development of man from his origin; races; special reference to pre-historic races of North and Central America.
- 334-5. The American Indian. Cr. 3. I and II.
Formerly Anthro. 334 with additional material. Prerequisite: History 131-2. Customs, institutions, and contributions of the native races of America; their relations with the Anglo-Americans historically traced.
- 336-7. Mexican Archaeology. Cr. 3. S.
Prerequisite: Permission of the instructor. A field course in Old Mexico. Lectures, reading, research, excavation, and visits to archaeological ruins in the vicinity of Mexico City. Offered in alternate summers; not offered in summer of 1941.
- 431-2. Field and Museum Technique. Cr. 3. I and II.
Prerequisite: Permission of the instructor.
- 433-4. Southwestern Archaeology. Cr. 3. S.
Prerequisite: Permission of the instructor. A field course. Lectures, research, and excavation. Offered in alternate summers; not offered in the summer of 1941.
- 438-9. North American Archaeology. Cr. 3. S.
Prerequisite: Permission of the instructor. A field course. Lectures, research, and excavation. Offered in alternate summers; not offered in the summer of 1941.
- 531-2. Seminar in Anthropology. Cr. 3. I and II.

Courses in this department which may be taken for graduate credit are: Hist. 331-2, 333-4, 336-7, 338-9, 3311, 3313-14, 3315, 3316, 3317, 430, 431-2, 433-4, 435, 436-7, 438-9, 4310, 4311-12, 4313-14, 4315, 4316-17, 4318, 530, 535, 536, 537, Anthro. 334-5, 336-7, 431-2, 433-4, 438-9, 531-2 if properly petitioned for in advance and an additional problem is done in each case of 300 and 400 numbered courses.

DEPARTMENT OF JOURNALISM

PROFESSOR HORNE. INSTRUCTORS ALLEN, *COWAN,
BERGIN, *HILL.

The work in journalism is designed to give a thorough training in the technique of journalistic writing and editing, a knowledge of the development of American journalism, and an understanding of those principles which underlie the most approved journalistic practices. One year's experience in reporting is required of all journalism graduates. Journalism majors are required to take typewriting without credit toward a degree during the freshman year, unless they have had a satisfactory course in high school. Courses 231-232, 335, 336-337, 430, and 333 or 434 are required of all journalism majors.

Much practice in news gathering, writing, and editing is given. The College printshop and the student publications are used as laboratories in advertising, make-up, reporting, and editing. Assignments are given on the college student publications, the college news service, and the Lubbock Avalanche-Journal publications.

*On leave, Long Session, 1940-41.

**Temporary appointment, 1940-41.

***Temporary appointment, 1940-41.

Candidates for the degree of Bachelor of Arts in Journalism must fulfill all the requirements for graduation from the Division of Arts and Sciences, including the prescribed work, the major and minor subjects, and a sufficient number of electives to make a total of 128 hours, with work of sufficient quality to make the necessary grade points. Work of "D" grade will not be accepted for credit on major or minor requirements. Journalism majors are required to complete 36 hours in journalism and twenty hours in sophomore, junior, and senior courses in some of the following subjects: economics, English, government, history, psychology, foreign languages, and sociology. For a minor a minimum of eighteen semester hours, at least six of which must be of junior or senior rank, are required. The minor subject must be approved by the head of the department.

Sophomore standing is prerequisite for any course in journalism.

231-2. Newspaper Reporting and Writing. Cr. 3. I and II.
An introduction to journalism; the problems and methods of gathering and writing news. Practice assignments in class.

330. Typography. Cr. 3. I.
Mechanics of printing and publishing; choice of type and its arrangement; engravings; the assembling of engravings and type; the make-up of newspaper, magazine, and book pages; and the typography of advertisements. Harmonious relationship between type, paper, ink, and engravings. Plates and plate making, duplicating processes and presses.

331. Special Feature Articles. Cr. 3. I.
The feature article, with regard to field, subject material, appeal and purpose, type and style. Special emphasis is given to news features.

332. Magazine Article Writing. Cr. 3. II.
Technique and procedure in writing for current magazines; what to write about; where and how to get facts and how to arrange them; preparation of the whole article; study of markets.

333. Problems of the Community Newspaper. Cr. 3. II.
Problems of the weekly and small daily newspaper; organization, sources of income and expenditure, advertising and circulation, news services, salaries and wages, unions, publisher's associations, and general business problems.

335. History of American Journalism. Cr. 3. II.
The origin and growth of the American newspaper from the colonial sheet to the metropolitan journal of today; biographical study of American journalists; individual study and research.

336-7. Advanced Reporting. Cr. 3, (1-6). I and II.
Consideration of news, news sources, news values, newspaper style, and the writing of various types of news stories. Assignments on the college newspaper and the *Avalanche-Journal* publications.

338-9. News Editing. Cr. 3. I and II.
A laboratory course in newspaper desk work, including copyreading, the writing of headlines, and make-up. Desk assignments on the *Toreador*, College newspaper, and the *Lubbock Avalanche-Journal*. Copy of the various press associations will be available for class use.

3310. Home Economics Journalism. Cr. 3. I.
Prerequisite: Junior standing. Writing for and editing of home economics bulletins, magazines, trade publications, and woman's pages. Designed to cover all phases of journalistic writing in the home economics field.

3311. Agricultural Journalism. Cr. 3. II.
Prerequisite: Junior standing. Designed for agricultural students interested in agricultural writing. Principles of news writing as applied to agriculture will be studied with practice in gathering material and writing news and feature stories for the daily, weekly, and agricultural press. The farm audience, farm problems, and special lectures on modern agriculture will be included.

3312-13. Press Photography. Cr. 3, (0-9). I and II.
A laboratory course in photography as applied to newspapers, magazines, and syndicates. Includes instruction and practice in the use of cameras, developing, printing, and enlarging.

430. Principles of Journalism. Cr. 3. II.
The freedom of the press, the ethics of magazine and newspaper publication, the relation of the press to society, and the law of libel.

431. Critical Writing. Cr. 3.**I.**

Journalistic criticism, including painting, music, plays and motion pictures, literature, and other forms of art. For students seeking general culture as well as for those preparing for newspaper departmental work. Offered in alternate years; not offered in 1941-42.

432. High School Publications. Cr. 3.**S.**

The problems confronted by a publications supervisor in organizing and maintaining high school newspapers and yearbooks, functions of high school publications, organization and training of the staff, and editorial and business problems.

434. Editorial Writing. Cr. 3.**I.**

Theory and practice of editorial writing; the types of editorials; a study of contemporary editorials with analysis of style, content, and purpose; technique and much practice.

435-6. Advertising. Cr. 3.**I and II.**

Prerequisite: Journalism 330. The principles of advertising and its relation to business activity. Research, campaigns, media, appropriations, rate structure, advertising services, records, copy. Layouts and the problems of typographical reproduction. (Candidates for the BBA degree may receive credit for 435 as an elective in the Department of Economics and Business Administration without the prerequisite.)

438-9. Problems. Cr. 3.**I and II.**

Presentation and solution of an approved problem involving individual research in the field of journalism or investigation of conditions in the field which may prove of service.

English 3315. The Contemporary Short Story.

(May be counted as a course in Journalism. For description, see Department of English.)

DEPARTMENT OF MATHEMATICS

PROFESSORS MICHIE, SPARKS, UNDERWOOD, THOMPSON.
ASSOCIATE PROFESSOR HEINEMAN. ASSISTANT PROFESSOR
HAZLEWOOD. INSTRUCTORS CHRISTIANSON, MILLER,
WAKERLING, GILBERT, WOODWARD, MAY, RIGBY.

The courses of instruction in this department are designed to give the student a working knowledge of mathematics, and to enable him to solve any of the ordinary problems which may arise in the study and pursuit of the engineering and scientific professions. They assist the student in developing the habit of self-criticism in thinking and writing. As one of the most ancient, and at the same time modern, practical, and progressive of sciences, mathematics is an integral part of any general education.

The department offers courses which fit into the curricula of the various divisions of the College, making modification and changes to meet the requirements of the particular divisions.

Students expecting to do graduate work in mathematics should have completed Math. 335-6, Differential and Integral Calculus, and Math. 433, Theory of Equations, together with the prerequisites to the courses. At least nine semester hours in mathematics courses numbered above 336 are required for admission to candidacy for the Master's Degree in this department. It is important that a candidate for the degree plan his courses at the beginning of his graduate work. His adviser will aid him in selecting courses and a thesis subject.

In graduate or undergraduate work any scheduled course may be withdrawn when the demand does not justify its continuance.

MATHEMATICS**121-2. Algebra. Cr. 2****I and II.**

Prerequisite: One and one-half units of high school algebra. Quadratic equations, variation, progressions, the binomial theorem, graphs, complex numbers, theory of equations, logarithms, determinants, partial fractions.

130. Algebra. Cr. 3.*I, II.**

Prerequisite: One unit of high school algebra and one unit of plane geometry. Review of high school algebra, quadratic equations, variation, progressions, graphs, binomial theorem.

*Credit will be given for Math. 130 or Math 137, but not for both.

131. Trigonometry. Cr. 3. I, II.
Prerequisite: One unit of high school algebra and one unit of plane geometry. Trigonometric functions, identities, circular measure, logarithms, solutions of triangles.
132. Analytics Cr. 3. I, II.
Prerequisite: Math. 121, 131. The straight line and conic sections, transformation of coordinates, polar coordinates.
- *137. Commercial Algebra. Cr. 3. I, II.
Prerequisite: One unit of high school algebra. Review of high school algebra with applications to commercial problems, simple equations, exponents, radicals, quadratics, progressions, binomial theorem, graphs, logarithms. For students not intending to take trigonometry.
138. Mathematics of Finance. Cr. 3. I, II.
Prerequisite: Math. 137 or its equivalent. Interest, annuities, amortization, depreciation, sinking funds, bonds.
221. Teaching of Arithmetic. Cr. 2. S.
Prerequisite: Math. 130 and 131, or its equivalent. For teachers of arithmetic in the first seven grades.
- 231-2. Mathematics for Students of Agriculture. Cr. 3. I and II.
Prerequisite: One unit of high school algebra and one unit of plane geometry. Algebra, business mathematics, averages and mixtures, trigonometry.
233. Calculus Applications. Cr. 3. I, II.
Prerequisite: Math. 251. Areas, volumes, centroids, moment of inertia, pressure, work, series.
- 235-6. Analytic Geometry. Cr. 3. I and II.
Prerequisite: Math. 131. Analysis of curves, loci, the straight line, conic sections, transformation of coordinates, polar coordinates, graphs of the trigonometric, logarithmic and exponential functions.
237. Mathematics of Insurance. Cr. 3. I.
Prerequisite: Math. 138. Theory of probability as related to insurance, construction of mortality tables, expectation of life, life annuities, premiums, policy options, reserves, Texas Standard.
238. Statistics. Cr. 3. II.
Prerequisite: Math. 138. Collection and tabulation of data, bar charts, line graphs, sampling, averages, dispersion, correlation, index numbers, normal curve, probability, estimation, with application to economic problems.
239. A Survey Course in Elementary Mathematics. Cr. 3. S.
Selected topics from arithmetic, algebra, business mathematics, and statistics, with application to life problems.
251. Calculus. Cr. 5. I, II.
Prerequisite: Math. 122, 132. Differentiation, maxima and minima, rates, curvature, formal integration.
321. Differential Equations. Cr. 2. I.
Prerequisite: Math. 233. Methods for the solution of elementary types of differential equations, with applications.
332. Methods of Teaching Algebra and Geometry. Cr. 3. S.
Prerequisite: Math. 235 and 236, or its equivalent. Presents the best modern practice of teaching of algebra and geometry. Class assignments are made with reference to ideas concerning types of pupil assignments. For teachers in four-year high schools.
- 333-4. Advanced Algebra. Cr. 3. I and II.
Prerequisite: Math. 236. Permutations and combinations, limits, series, logarithmic and exponential functions.
- 335-6. Differential and Integral Calculus. Cr. 3. I and II.
Prerequisite: Math. 236. Differentiation, maxima and minima, rates, curvature, mean value theorem, formal integration, definite integrals, areas, lengths, volumes.
430. Finite Differences. Cr. 3. I.
Prerequisite: Mathematics 336. The elementary theory in detail; the development of the more important methods of interpolation and summation.
431. Advanced Calculus. Cr. 3. I.
Prerequisite: Math. 336. Power series, expansion of functions, partial differentiation, multiple integrals.

*Credit will be given for Math. 130 or Math. 137, but not for both.

432. Differential Equations. Cr. 3. II.
Prerequisite: Math. 336. Methods for the solution of elementary types of differential equations, with geometrical and physical applications.
433. Theory of Equations. Cr. 3. I.
Prerequisite: Math. 335. Complex numbers, solution of numerical equations, symmetric functions, determinants, systems of linear equations.
437. Higher Geometry. Cr. 3. S.
Prerequisite: The consent of the instructor. Directed segments and angles, similitude, inversion, geometry of the triangle, quadrilateral, coaxial circles. Exercises. Recommended for teachers of geometry in high schools.
438. Solid Analytic Geometry. Cr. 3. II.
Prerequisite: Math. 433. The equations of space curves, planes, lines, and quadratic surfaces. Not offered in 1941-42.
530. Vector Analysis. Cr. 3. S.
Prerequisite: Math. 336. Scalar and vector products, divergence, gradient, curl, applications.
531. Mathematical Statistics. Cr. 3. I.
Prerequisite: The consent of the instructor. Development of the theory of probability and its application to statistics, derivation of statistical formulas, curve fitting, least squares, use of moments, frequency curves, probable error.
533. Lie Theory of Differential Equations. Cr. 3. S.
Prerequisite: Math. 432. A study of differential equations from the point of view of continuous groups.
534. Synthetic Projective Geometry. Cr. 3. S.
Prerequisite: Consent of the instructor. Fundamental theorems of projective geometry treated synthetically. Exercises.
535. Analytic Projective Geometry. Cr. 3. S.
Prerequisite: Consent of the instructor. Analytic treatment of the projective properties of the straight line and the conic sections.
536. Modern Algebra. Cr. 3. S.
Prerequisite: Math. 433. Determinants, matrices, systems of linear equations, linear transformations, quadratic and bilinear forms.
537. Functions of a Complex Variable. Cr. 3. S.
Prerequisite: Math. 431. Algebra of complex numbers and their geometric representations, conformal mapping, power series and properties of analytic functions.
538. Theory of Numbers. Cr. 3. S.
Prerequisite: Consent of instructor. Congruences, quadratic residues and reciprocity law, quadratic forms.
539. Introduction to the Theory of Finite Groups. Cr. 3. S.
Prerequisite: Math. 433. Substitution groups, Lagrange theorem, Galois theory, group of an equation, gamma groups, series of compositions.
5310. Advanced Differential Equations. Cr. 3. II.
Prerequisite: Math. 432. Linear equations with constant coefficients; equations of the first, second, and higher orders; numerical approximations; solutions in series; existence theorems; simple partial differential equations; applications.
5311. Thesis Course. Cr. 3. I, II.
Prerequisite: Graduate standing and thirty semester hours in Mathematics. For candidates for the degree of Master of Arts.

Courses in this department which may be taken for graduate credit are: Math. 430, 431, 432, 433, 437, 438, if an additional problem is carried; also 530, 531, 533, 534, 535, 536, 537, 538, 539, 5310, 5311.

ASTRONOMY

- 131-2. General Astronomy. Cr. 3. I and II.
Prerequisite: Math. 130 or 121, and Math. 131. The solar system and the stellar universe. Simple problem solutions. A foundation and cultural course for those with moderate but not unusual mathematical ability.

DEPARTMENT OF MUSIC

PROFESSOR BLITZ. ASSOCIATE PROFESSOR WILEY.
PART-TIME INSTRUCTOR TROTTER.

Instrumental and voice teachers associated with the College are listed following the discussion of Band.

The department offers a music major toward the Bachelor of Arts Degree and major in Public School Music and in Band Music for the Degree of Bachelor of Science in Education. The Bachelor of Science in Education is a professional degree which includes observation and practice teaching and entitles the recipient to the state permanent certificate. Requirements for graduation may be met in four years without summer school or extension work.

The curriculum for the Bachelor of Arts Degree with music major and the general requirements for the Bachelor of Arts Degree are given separately in this catalogue. It is suggested that a student with a major in music not undertake to complete the requirements for the Bachelor of Arts Degree within four years unless he does additional study during at least one summer session. This is made necessary by the amount of daily practice in applied music.

For students desiring to offer a minor in music the following courses are suggested: Music 121-2 or 123-4, 335-6 or 338; Applied Music 125-6, 225-6; Chorus electives: 313-4, 413-4.

The department does not offer voice and instrumental majors, but in lieu grants instrumental and voice diplomas to those students who have accomplished the junior and senior applied courses with distinction and who present junior and senior recitals open to the public. Although this college diploma may embody the necessary credentials for the acquisition of the state instrumental or voice certificate, yet the former should not be confused with the latter.

Any branch of music may be elected upon the recommendation of the head of the department in which the student is majoring. Music History 335-6 is the only advanced subject which can be taken without any music prerequisites. This course is open to all students of junior standing in college.

Advanced standing is not easily granted by this department, but a school- or experienced musician will not be classified as a freshman in music, if his ability amply justifies his pursuance of a higher music branch. This process will not lessen the number of semester hours required for graduation.

Courses are listed under five headings: Music, Band, Chorus, Orchestra, and Applied Music.

The holder of the degree of Bachelor of Science in Education with a major in public school music may offer twelve hours in the following branches as a minor for the degree of Master of Education: Band 521-2; Applied Music 325-6, 425-6, 4215-16; Band 325-6, 425-6, if properly petitioned for in advance and if an additional special problem is done.

The holder of the degree of Bachelor of Science in Education with a major in band may offer twelve hours in the following branches as a minor for the degree of Master of Education: Band 521-2, 523-4; Music 335-6, 337, 438; Band 421-2, 425-6; Applied Music 325-6, 425-6, 4215-16, if properly petitioned for in advance and if an additional special problem is done.

MUSIC

Theory

117-8. Voice. Cr. 1.

Posture; breath control; voice placement; physical development; vocalization. Taught in small groups.

I and II.

- 121-2. Solfeggio. Cr. 2.** I and II.
Recapitulation of high school work. Scales—major, minor, mixed, and chromatic. Intervals—consonant, dissonant, attractive, mixed. Time beating (first step in conducting.) Binary, ternary, bino-ternary, terno-ternary, composite, solmization. Melodies in bass and treble clef, hymns, national folk songs, leading to special textbooks on applied solfeggio. Ear training and dictation. Musical mnemonics by Dessirier.
- 123-4. Harmony. Cr. 2.** I and II.
Consonant harmony. Common chords. Triads found in five types of scales. Figuration of chords. Analysis of chords. Four part harmony. Movements and motion, enchainment of chords. Progressions, modulations, inversions. Fundamental harmony, harmonization of melodies, figuration of basses.
- 137-8. Voice. Cr. 1.** I and II.
Posture; breath control; voice placement; physical development; vocalization. Taught in small groups.
- 211-2. Public School Music Education. Cr. 1.** I and II.
The fundamentals of music, the writing of notes, of rests, and other signs employed in music; the beating of time; note values; scales and intervals; singing; tone production; appreciation of music. The principal object of the course is to help public school primary education teachers.
- 217-8. Voice. Cr. 1.** I and II.
Continuation of physical development, vocalization, repertoire.
- 221-2. Solfeggio. Cr. 2.** I and II.
The science of quint relation, ladder of the fifths, conception of M. A. Barbereau, Paris, 1847. Solmization with changes of clefs. Ear training and dictation. First approach to conducting.
- 223-4. Harmony. Cr. 2.** I and II.
Dissonant harmony, chords of four notes. Tableau of all the chords of seventh in the five types of scales. Direct resolutions, indirect resolutions, alternation, harmonization of melodies, suspension, retardation, anticipation, chords of the ninth.
- 327-8. Conducting. (Methods Course). Cr. 2.** I and II.
Prerequisite: 221-2. Elements of counterpoint. Score reading. Choir directing. Diction and interpretation. Instrumental transpositions and substitutions. Theoretical knowledge of the instruments of the orchestra from the conductor's point of view. Methods of teaching chorus and orchestra groups. Deciphering instrumental charts. This course is prerequisite to any form of applied conducting.
- 335-6. History and Appreciation. Cr. 3.** I and II.
Prerequisite: Junior standing. Acquainting the students with salient facts of music history and teaching him how to listen to music, what to listen for, and what reaction to expect. Study of opera by radio and phonography. Music in Texas.
- 337. Music Education. Cr. 3.** I.
Prerequisite: 121-2 or 211-2. Methods for elementary grades. The material and methods of teaching music to school children; the pedagogy of music, embracing the principles required for scientific music foundation; the qualifications necessary to student and teacher; group activities; fundamentals of music appreciation; rudiments of music; problems in rural schools; study of state adopted textbooks; primary music education. Seminar course.
- 431-2. Minor Instruments. Cr. 3.** I and II.
Prerequisite: Senior standing and the equivalent of two semester credit hours of playing experience on minor instruments. Instruments other than the student's major instrument. Scales, arpeggios, studies, and repertoire.
- 438. Junior and Senior Methods. (Methodology). Cr. 3.** II.
Prerequisite: Music 327-8, 337. The technique of teaching vocal instrumental music group activities; chorus and ensemble work; music appreciation; and more advanced theory—as it relates to junior and senior high school aged pupils.

Chorus

- 113-4. Freshman Chorus. Cr. 1.** I and II.
- 213-4. Sophomore Chorus. Cr. 1.** I and II.
- 313-4. Junior Chorus. Cr. 1.** I and II.
- 413-4. Senior Chorus. Cr. 1.** I and II.
- 4113-14. Cr. 1.** I and II.
Formerly 413B-4B. Additional senior work.

Orchestra

- 115-6. Freshman Orchestra. Cr. 1. I and II.
 215-6. Sophomore Orchestra. Cr. 1. I and II.
 315-6. Junior Orchestra. Cr. 1. I and II.
 415-6. Senior Orchestra. Cr. 1. I and II.
 4115-16. Cr. 1. I and II.
 Formerly 415B-6B. Additional senior work.

Applied Music

The outline of courses in Applied Music here listed permits variations according to the individual needs and objectives of the student. His objective may be to acquire a mere working knowledge of the instrument described in some conservatories as "key-board." His objectives may be accompanying or ensemble playing. Finally, his objective may be virtuosity. Therefore the following outline of courses may necessarily be altered to fit the needs of the individual. Students are required to take two lessons per week either individually or in class, the latter being of longer duration.

All applied music students, regardless of classification, are required to meet a two-hour class held once a week and supervised by the head of the department. No extra tuition is charged for this class. Exemption from this class is granted only when the equivalent of the course is supervised by a College music faculty member.

- 128-9. Violin or Cello. Cr. 2. I and II.
 (No special music tuition.) Prerequisite: Three years of trained or high school orchestra experience. Audition required. Class limited to eight students. Average laboratory, 2½ hours per day. Violin studies: DeBeriot, Alard, Musin; repertoire. Cello studies: Lee, Parts I and II; repertoire.

Piano

- 125-6. Cr. 2. I and II.
 Czerny; Burgmiller; Heller; Bach; Mendelssohn; ensemble.
 225-6. Cr. 2. I and II.
 Czerny; Kullak Octave studies; Heller; Bach—two part inventions; Mendelssohn ensemble playing.
 325-6. Cr. 2. I and II.
 Chamer; Kullak Octave studies; Bach—Three part inventions; Chopin Etudes; ensemble playing.
 3215-16. Cr. 2. I and II.
 Additional junior work.
 425-6. Cr. 2. I and II.
 Clementi Baih—Well Tempered Clavichord; Chopin Etudes; ensemble playing. Public recital.
 4215-16. Cr. 2. I and II.
 Formerly 425B-6B. Additional senior work.

Voice

- 125-6. Cr. 2. I and II.
 Fundamentals of voice production; modern songs.
 225-6. Cr. 2. I and II.
 Continuation of fundamentals; standard book studies; classic songs.
 325-6. Cr. 2. I and II.
 Continuation of fundamentals; arpeggios and chromatic scales. Operatic selections, modern songs.
 3215-16. Cr. 2. I and II.
 Additional junior work.

425-6. Cr. 2. I and II.
Selected studies in interpretation of classical modern songs; recitatives and arias. Public recital.

4215-16. Cr. 2. I and II.
Formerly 425B-6B. Additional senior work.

Violin

125-6. Cr. 2. I and II.
Franz Wolfhart—last part of Book II, Book III, Flesch Scale Studies; Mazas—Book I. De Berliot and Alard Methods.

225-6. Cr. 2. I and II.
Mazas—Book II; Sevelk (double stopping and preparatory); trill studies; Flesch—scale studies and shifting exercises; Beethoven, Schumann, Dvřak and composition by selected composers.

325-6. Cr. 2. I and II.
Kreutzer Etudes; beginning of Fiorillo Bowing Studies; De Berliot Concerto No. VII; selected repertoire.

3215-16. Cr. 2. I and II.
Additional junior work.

425-6. Cr. 2. I and II.
Kreutzer and Fiorillo, continued; Rode caprices; concertos of De Berliot, Bruch; Bach Sonatas; selected repertoire, classic and modern, for recital.

4215-16. Cr. 2. I and II.
Formerly 425B-6B. Additional senior work.

Viola

(Only freshman and sophomore courses offered.)

125-6. Cr. 2. I and II.

Method. Gavalline-Guida and Richard Huffman and repertoire (for both years).

225-6. Cr. 2. I and II.
Continuation of freshman year.

Bass

(Only freshman and sophomore courses offered.)

125-6. Cr. 2. I and II.
Methods of Simanda and orchestra repertoire.

225-6. Cr. 2. I and II.
Continuation of first year.

Cello

125-6. Cr. 2. I and II.
Method of Lee, Part I.

225-6. Cr. 2. I and II.
Method of Lee, Parts I and II; repertoire.

325-6. Cr. 2. I and II.
Dotzauer Thumb Position, Repertoire Carl Schroeder.

3215-16. Cr. 2. I and II.
Additional junior work.

425-6. Cr. 2. I and II.
Studies by Duport, Romberg Concertos, modern concert repertoire.

4215-16. Cr. 2. I and II.
Formerly 425B-6B. Additional senior work.

Reed Instruments

125-6. Cr. 2. I and II.

225-6. Cr. 2. I and II.

325-6. Cr. 2.	I and II.
3215-16. Cr. 2. Additional junior work.	I and II.
425-6. Cr. 2.	I and II.
4215-16. Cr. 2. Formerly 425B-6B. Additional senior work.	I and II.

Brass Instruments

125-6. Cr. 2.	I and II.
225-6. Cr. 2.	I and II.
325-6. Cr. 2.	I and II.
3215-16. Cr. 2. Additional junior work.	I and II.
425-6. Cr. 2.	I and II.
4215-16. Cr. 2. Formerly 425B-6B. Additional senior work.	I and II.

BAND

Students desiring to major or minor in band music should follow the schedule of courses outlined for the degree of Bachelor of Science in Education.

Since a great majority of the students who play in the band will major in some other branch of the College, it is suggested that these students register for the one-hour band courses. This work may be counted as elective credit on the Bachelor of Arts Degree, or the freshman and sophomore years may be substituted for the required physical education. A maximum of eight hours of music may be counted as elective credit on the Bachelor of Arts Degree.

Students who play in the band but who are majoring in other fields will take Band 111-2, 211-2, 311-2, and 411-2.

Students who major in band music will have to show a knowledge of band instruments at the beginning of the senior year. They will be expected to make appearances as soloists with the band, and to conduct in public at least a half-dozen larger band numbers with proficiency.

111-2. Freshman Band. Cr. 1.	I and II.
Two rehearsals per week. Exercise material as assigned by the director, and marching formation as practiced by the full band.	

115-6. Band. Cr. 1.	S.
Applied Music branch. Not a methods course. The care of the instrument. Position at the instrument. Tone production. Physical development. Scales. Exercises. Studies and repertoire selected from standardized methods and literature of music to fit the needs of the pupil according to his degree of advancement. (This description applies also to Band 215-6, 315-6, 415-6.)	

125-6. Band. Cr. 2.	I and II.
Formerly 131-2. Exercise material as assigned by the director. Overtures, selections, and marches as assigned.	

211-2. Sophomore Band. Cr. 1.	I and II.
Two rehearsals per week. More advanced exercises and study material, and field maneuvers as practiced by the full band.	

215-6. Band. Cr. 1.	S.
(See Band 115-6).	

225-6. Band. Cr. 2.

I and II.

Formerly 231-2. More advanced exercise and study material. Concert numbers by composers of different periods selected from band library.

311-2. Junior Band. Cr. 1.

I and II.

Two rehearsals per week. Study materials in keeping with advancement of students; concert materials; marching formations as practiced by the full band.

315-6. Band. Cr. 1.

S.

(See Band 115-6).

321. Band Conducting and Methods. Cr. 2.

I.

Prerequisite: Music 221-2. Posture technique of the baton; fundamental principles in obtaining tone balance, color, shading, etc. Program building, and practical application of the conducting of smaller concert numbers. Methods of teaching band instruments and groups.

325-6. Band. Cr. 2.

I and II.

Formerly 331-2. Study materials in keeping with the advancement of the student. Concert numbers to include overtures and symphony movements by Beethoven, Bizet, Massenet, Verdi, Rossini, and others.

411-2. Senior Band. Cr. 1.

I and II.

Two rehearsals per week. Concert numbers which will include works by the masters of all periods, and marching formations as practiced by the full band.

415-6. Band. Cr. 1.

S.

(See Band 115-6).

421-2. Band Conducting and Methods. Cr. 2.

I and II.

More advanced study and experience in the art of conducting with a study of more important concert forms. Overtures by Rossini, Verdi, von Suppe, Beethoven, Bizet, and others. Symphonic works of Beethoven, Dvorak, Tchaikowsky, Liszt, and many others. Methods of teaching band instruments and groups.

425-6. Band. Cr. 2.

I and II.

Formerly 431-2. Concerted numbers to include some of the larger works of the modern. Works of Tchaikowsky, Wagner, Dvorak, Ravel, Debussy, Rimsky-Korsakoff and others. Study materials and solos in keeping with the grade of advancement.

4215-16. Band. Cr. 2.

I and II.

Formerly 431B-2B. Additional senior work.

521. Band Conducting for Graduate Students. Cr. 2.

S.

Designed to be flexible enough for any graduate student in the music department. Study and performance of composers' works of all periods. A public performance of a designated composition of the larger forms will be required.

522. Applied Band. Cr. 2.

S.

523. Symphonies. Cr. 2.

S.

524. Symphonies and Symphonic Poems. Cr. 2.

S.

Courses in this department which may be taken for graduate credit are: Music 335-6, 337, 438; Applied Music 325-6, 425-6, 4215-16; Band 325-6, 421-2, 425-6, 521, 522, 523, 524.

MUSIC TUITION

The following fees are not covered by college tuition. They are payable to the teacher in advance or one-half in advance and the remainder at mid-semester.

		*Two Lessons per week	One Lesson per week	**Group Lessons
H. A. Anderson	Reeds	\$45.00	\$22.50	\$18.00
Mrs. J. P. Blitz	Piano	36.00	Not offered	18.00
J. P. Blitz	Cello	No tuition charged. Three years experience required. See Music 128-9.		
Miss Beulah Dunn	Violin			
	Strings			
	Violin	45.00	22.50	25.00
	Viola	45.00	22.50	25.00
	Freshman Cello	36.00	Not Offered	Not Offered
	Freshman Bass	25.00	Not Offered	Not Offered
Miss Myrtle Dunn	Piano	54.00	27.00	27.00
	Voice	54.00	27.00	27.00
Mrs. E. F. George	Piano	36.00	22.50	27.00
***Joe Haddon	Brass	45.00	22.50	18.00
Miss Margaret Huff	Organ	54.00	27.50	Not Offered
	Piano	45.00	22.50	27.00
	Voice	45.00	22.50	27.00
Mrs. Carl Scoggin	Voice	45.00	22.50	18.00
D. O. Wiley	Violin	54.00	27.00	27.00
Piano rental payable at the college.				
One hour per day per semester		5.00		
Each additional hour.		2.50		
Orchestra instruments—Inquire of head of department.				
Band instruments—Inquire of band director.				

ORIENTATION FOR FRESHMEN

The Division of Arts and Sciences along with other divisions of the College believes definitely that students entering college for the first time should be given an opportunity in a systematic way and under sympathetic guidance to become adjusted to college and college ideals. Likewise, the elementary principles governing good study habits and the problems involved in the right choice of a vocation should be given definite consideration. To that end an orientation course is set up for freshmen, both men and women. In general men students are taught by men teachers, and women students by women teachers. All Arts and Sciences freshmen are required to take the course. During the spring semester a course is given in guidance with the principal emphasis placed on guidance in the vocations. This course at present is open only to men students.

111. Orientation. Cr. 1.

I, II.

One lecture per week with convocations as the conduct of the course demands. Psychological and achievement tests given; problems incident to changing from high school to college; life in college; budgeting time and money; personal problems; how to study—taking notes, listening to lectures, using the library, reviewing, taking tests, forming study habits. Student health and housing; student employment; scholarship, grades, et cetera; general catalogue regulations.

112. Vocational Guidance. Cr. 1.

II.

The meaning of guidance; general and personal factors that contribute to success in school and vocations; exploration of special interests and abilities by means of tests; guidance in the selection of subjects, courses, and curricula; guidance in choosing a vocation, preparing for it, entering upon it, and making good in it.

*Accredited if enrolled through the music demonstration class.

**Not more than four students per teacher constitute a group.

***Leave of absence for National Guard duty.

DEPARTMENT OF PHILOSOPHY AND SOCIOLOGY

DIRECTING HEAD OF DEPARTMENT, DEAN GORDON
ASSISTANT PROFESSOR BAHM.

PHILOSOPHY

The function of philosophy is two-fold. First, it seeks to inquire into life seen as a whole, to determine the purpose of the whole. Second, it seeks to answer scientifically certain questions: what are the methods of correct thinking; what is the nature of knowledge, truth and certainty; what is the ultimate nature of reality; what is value or goodness; what is the nature of right or proper conduct; what is beauty; what is religion. Philosophical studies should aid the student to develop the habit of thinking critically for himself.

To meet the minimum degree requirements in Philosophy, the student may offer Philosophy 330, 337, or 338—preferably 330.

Students majoring or minoring in philosophy will take Psychology 230 to satisfy minimum degree requirements. Majors will take also either Psychology 337 or Psychology 433 or Psychology 434.

330. Introduction to Philosophy. Cr. 3. I, II.
Formerly 230. The fundamental problems involved in the interpretation of the nature of knowledge, reality, and value.
331. Contemporary Philosophy. Cr. 3. I.
Prerequisite: 330 or 332. The dominant movements in contemporary philosophy.
332. History of Philosophy. Cr. 3. II.
The principal philosophical systems developed by the great philosophers of the world.
337. Logic. Cr. 3. II.
Deductive and inductive logic, with practice in logical analysis, the use of the syllogism and the inductive methods, and detection of fallacies.
338. Elements of Ethics. Cr. 3. II.
Problems of individual and social conduct; the bearing of ethical principles upon everyday life.
431. Aesthetics. Cr. 3. I.
Prerequisite: Senior standing or permission of the instructor. Interpretation of the nature of beauty. Analysis of the aesthetic experience. Characteristics of art objects. Application of principles to music, poetry, prose literature, painting, sculpture, and architecture.
432. Philosophy of Value. Cr. 3. II.
Prerequisite: Phil. 330, and senior standing or permission of the instructor. Contemporary theories of the nature of the intrinsic, instrumental, and economic value.
436. Philosophy of Religion. Cr. 3. II.
Prerequisite: Senior standing or permission of the instructor. A search for the essence of religion by means of a survey of historical and contemporary religious movements; Brahmanism, Buddhism, Confucianism, Judaism, Greek Polytheism, Catholic and Protestant Christianity, and Humanism.
438. Seminar in Philosophical Problems. Cr. 3. I, II.
Prerequisite: Senior standing and major or minor in philosophy. For philosophy students whose needs are not satisfied by other courses offered. Reading on selected topics, reports, conferences, and examination.

The following courses may be counted for graduate credit toward a graduate minor in philosophy: 431, 432, 436, 438, if properly petitioned for in advance and provided an additional special problem is done in each case.

SOCIOLOGY

Sociology is concerned with human relations—"the origin, development, structure, and functions of social groups." It considers the origin and development of society; individual and social interests; social forces; social control; social change; group contacts and social progress.

Sociology 330, 331, 333 may be used to satisfy the minimum degree requirements in sociology (1) for the degree of Bachelor of Science in Education, (2) for a major in the Department of Speech, and (3) for degrees in the Division of Home Economics.

The following courses given in other departments will be accepted as fulfilling major or minor requirements of students majoring or minoring in Sociology, provided they are not accepted to fulfill requirements in other departments: Anthropology 331-2; Philosophy 338; Economics 432; Education 430; Psychology 434; Rural Sociology 432 (Division of Agriculture); Family Relations 433 (Division of Home Economics.)

330. Introduction to Sociology. Cr. 3. I.
The underlying principles of social science.

331. Social Pathology. Cr. 3. II.
Problems of social maladjustment, unemployment, poverty, dependence, defectiveness, immorality, crime.

*333. Current Social Problems. Cr. 3. I, II.
Survey of problems pertaining to adjustment to external nature, population, distribution of wealth and income, health and physical welfare, race, immigration, the family, and war.

431. Marriage. Cr. 3. II.
Prerequisite: Senior standing or consent of instructor. Development of marriage institutions, contemporary problems, biological and psychological factors, purpose of marriage, marital and pre-marital adjustments, future of the family.

433. Criminology. Cr. 3. II.
Prerequisite: Senior standing or permission of instructor. A study of the causes and remedies of delinquency and crime.

436-7. Social Life and Culture of Mexico. Cr. 3. S.
Prerequisite: Junior standing and a course in sociology or consent of instructor. A field course with a trip to Mexico City and environs. Comparison of U. S. and Mexican institutions and social problems. Readings, lectures, visits to key institutions. Field course to Mexico.

438. Seminar in Social Problems. Cr. 3. I.
Prerequisite: Senior standing and major or minor in sociology. Advised observation and independent research in sociological problems of the community.

439. Seminar in Social Problems. Cr. 3. II.
Prerequisite: Sociology 438. A continuation of Sociology 438.

The following courses may be counted for graduate credit toward a graduate minor in sociology: Sociology 438, 439, Economics 432, Psychology 434, and Rural Sociology 432, if properly petitioned for in advance and provided an additional special problem is done in each case.

*Explanation of duplicate numbers for courses carrying both three-hour and two-hour credits. In the Department of Philosophy and Sociology and in the Department of Education and Psychology certain courses are offered as three-hour courses at one time and as two-hour courses at another time. The description of the courses is presented but once and is marked with an asterisk. At the close of the description of the courses in these two departments, a cross reference of the course numbers concerned is presented for the department. Credit may be obtained for only one such similar course. Such courses in this department are: Sociology 333 and 323.

DEPARTMENT OF PHYSICAL EDUCATION

PROFESSORS *CAWTHON, **JENNINGS, ***SMITH, ****MORGAN
ASSOCIATE PROFESSOR LANGFORD. ASSISTANT
PROFESSORS BERL HUFFMAN, ZELLA HUFFMAN.
INSTRUCTOR BASKIN

Professor Morley Jennings is Head of the Department of Physical Education for Men and Director of Athletics; Professor Johnnye G. Langford is Head of the Department of Physical Education for Women. All physical edu-

*Resigned, effective March 1, 1941.

**Effective June 1, 1941.

***Resigned, effective April 1, 1941.

****Effective March 1, 1941.

cation activities for men will be definitely coordinated so that the best result can be had in each individual case. Eligibility for participation in intercollegiate athletics is governed largely by the regulations of the Border Inter-Collegiate Conference, of which Texas Technological College is a member.

Every student is given a medical examination at the beginning of each year. When physical defects are shown, rendering it inadvisable to do the regular physical education work, the student may be given special corrective work, or in extreme cases he may be permitted to meet by substitution the total number of hours of practical physical education required. In such cases the student will regularly enroll for P. E. 3310.

Every freshman and sophomore student in the College is required to enroll for physical education unless excused upon recommendation of the College physician. However, physically fit men may enroll for military science instead of for physical education if enrolled in any of the eligible Engineering courses and otherwise qualified. Registration in Band will substitute for the physical education requirement.

Four one-hour courses in physical training are required, and only four may be used. In addition to the required work, advanced courses are offered in technique, administration, and methods of teaching physical education. These courses meet the state requirements.

The following are required courses for a major in physical education for the Degree of Bachelor of Science in Education; P. E. 235-6 (women); 237-8 (men); 332 or 337; 339; 333-4 or 335-6; Foods 133 and three additional hours in elective courses in physical education. A maximum of six semester hours of work taken in the coaching schools may be counted as electives.

PHYSICAL EDUCATION FOR MEN

The regulation gymnasium suit consisting of a scarlet shirt and black trunks and shoes must be provided by the student.

113-4. Physical Training. Cr. 1, (0-2). I and II.
Sections 1, 2, 4, 7, 8, 9, 10—athletic games, calisthenics, corrective exercises, and lectures. Section 3, 5,—wrestling. Section 6—tumbling.

213-4. Physical Training. Cr. 1, (0-2). I and II.
A continuation of 113-4. Required of sophomores. (Option—Military Science or Band). Sections 1, 3—intramural basketball, football, track, tennis, golf, soccer in season. Sections 2, 4—gymnastics, fencing, wrestling.

237-8. Technique of Sports. Cr. 3. I and II.
Group and mass technique and practice of stunts, soccer, volley ball, tennis, touch football, baseball, indoor baseball, actual practice and study of rules.

321-2. Practical Instruction in Athletics Cr. 2, (1-3). I and II.
Plays and formations in all major sports as well as detailed instruction in football, basketball, track, field games, swimming. For juniors only; must be candidates for one major sport each semester and have made a varsity squad previously.

431-2. Theory and Practice of Coaching. Cr. 3, (2-3). I and II.
Prerequisite: 321-2. Theory of coaching football, basketball, baseball, track, field sports; taken up in connection with demonstrations of training methods, diet, massage, and athletic administration. For seniors only; must be a candidate for one major sport.

PHYSICAL EDUCATION FOR WOMEN

The Physical Education Department for Women offers three types of instructional work: (1) two years of required work; (2) a teaching major; (3) teacher training for classroom teachers.

Regular costumes, described at the first meeting of the classes, are to be purchased upon registration for work in physical education. These costumes are suitable for class work throughout the two years of physical education.

All unrequired athletic activities are sponsored by the Women's Athletic Association. Points are awarded in accordance with the requirements of the Texas Athletic Conference of College Women.

For the present the State Department of Education is asking that certain prescribed courses be required of all classroom teachers responsible for playground work. The courses prescribed are P. E. 233 and P. E. 230.

111. Fundamentals in Gymnastics and Rhythms. Cr. 1, (0-2). I.
Exercises for coordinations and posture, free rhythmic steps, and movements.
112. Stunts, Games, and Sports. Cr. 1, (0-2). II.
Simple stunts and unorganized games. Development in fundamental skills and team play in major sports.
210. Clogging. Cr. 1, (0-2). I, II.
Clog. Character and tap dancing. For beginning and advanced students.
211. Riding. Cr. 1, (0-2). I, II.
Instruction and practice in horseback riding. For beginning and advanced students.
212. Tennis. Cr. 1, (0-2). I.
Technique and practice in tennis. For beginning and advanced students.
213. Individual Gymnastics. Cr. 1, (0-2). I, II.
For students not physically able to enroll in regular physical education work.
215. Basketball and Fieldball. Cr. 1, (0-2). I.
Technique and practice in basketball and fieldball.
216. Soccer and Speedball. Cr. 1, (0-2). II.
Technique and practice in fundamental skills and team play of soccer and speedball.
217. Folk Dancing. Cr. 1, (0-2). I.
Fundamental steps and rhythms used in folk dances.
218. Volleyball and Baseball. Cr. 1, (0-2). II.
Fundamental skills and team play in volleyball and baseball.
219. Tumbling. Cr. 1, (0-2). II.
Stunts and pyramid building.
2110. Archery and Ping-Pong. Cr. 1, (0-2). II.
Instruction and practice in archery and ping-pong.
2111. Golf. Cr. 1, (0-2). II.
Technique and practice in golf.
2112. Swimming. Cr. 1, (0-2). S.
Technique of the various strokes in swimming. For beginning and advanced students.
2114. Field Hockey. Cr. 1, (0-2). II.
Fundamental skills and team play in hockey.
239. Coaching Basketball and Other Team Sports. Cr. 3. S.
Similar to 338-9. Credit will not be allowed for this course if 338-9 is taken. The teaching technique of basketball, volleyball, tennis, soccer, baseball, and related team sports. (Designed for coaches who are not majoring in physical education.)
- 333-4. Methods in Elementary Physical Education. Cr. 3. S.
Methods of teaching physical education in elementary schools; the work most adaptable to each grade.
- 338-9. Technique of Sports. Cr. 3. I and II.
Instruction in technique and rules with demonstrations and actual playing of various sports. Baseball, tennis, volleyball, soccer, basketball, speedball, and fieldball.
433. Teaching of Rhythmical Activities. Cr. 3. II.
Formerly 338. Principles and procedures of teaching the various types of dancing; training in the recognition and use of dance rhythms; correlation of music and dance through its various stages; recognition, interpretation, and composition of rhythmic and step patterns.

PHYSICAL EDUCATION COURSES OPEN TO MEN AND WOMEN

2115. Badminton. Cr. 1. I.
Instruction and practice in the fundamentals of badminton. (Open to students of sophomore rank.)

2116. Social Dancing. Cr. 1. I, II.
Required of physical education majors and open to students of sophomore rank. Fundamentals of social dance movements.
230. Principles of Health Education. Cr. 3. II.
Health education programs in elementary and high schools. Hygiene and first aid material.
233. Methods in Physical Education for the Elementary School Teacher. Cr. 3. I.
A method and content course dealing with the theory and practice of physical education in the elementary schools.
331. Recreational Methods. Cr. 3. I.
Group and unorganized games; highly organized games and sports. The games taught are suitable for schools, playground, and social recreation.
332. Physiology of Exercise. Cr. 3. I.
The benefits and results of exercise.
- 335-6. Methods in Secondary Physical Education. Cr. 3. I and II.
Methods of teaching physical education in secondary schools; health examination and preparation of a complete program of physical education for secondary schools.
337. History of Physical Education. Cr. 3. I.
History of physical education, with particular attention to recent literature.
3310. Personal Health. Cr. 3. I, II.
Hygienic principles of health as related to individual health problems. A study of personal health, normal body function, and the predisposing and actual causes of disease. Consideration of health conservation and the prevention of disease in the family as related to individual and community health.
434. Principles of Physical Education. Cr. 3. II.
Formerly 339. Principles of physical education from the standpoint of the physical education teacher or administrator.
435. Modern Trends in Physical Education. Cr. 3. S.
For teachers, supervisors, and administrators. Programs, requirements, accrediting, costumes, tests, athletic associations, equipment and other current problems.
436. Physical Examination in Physical Education. Cr. 3. S.
Prerequisite: Zool. 235-6. Organization and technique of examinations and measurement. The significance of health examinations in the detection of various physical defects and the methods of recording findings. Practical experience in the various methods of examining, measuring, and grading posture.
437. Tests and Measurements in Physical Education. Cr. 3. S.
A study of the practical application of typical capacity and achievement tests now in use in the field of health and physical education for the purposes of classification and measurement of school progress. A critical study of various specific tests and types of tests.
438. Problems in Curriculum Construction in Physical Education. Cr. 3. S.
Problems in the selection and organization of health and physical education activities used at various school levels. Essential steps in the organization of content material and class procedure to insure systematic progress.
- Courses in this department which may be taken for graduate credit, provided an extra problem is done in each course, are: 434, 435, 436, 437, 438.

DEPARTMENT OF PHYSICS

PROFESSORS GEORGE, ABBITT. ASSOCIATE PROFESSORS HILL,
SCHMIDT. INSTRUCTOR CROSS.

The instructional work in the Department of Physics has been organized with the view of attaining the following objectives: (1) to acquaint the student who is pursuing a non-specialized course of study with the place of physics in the modern world and to train him in the scientific methods of work; (2) to provide the basic training in physics for agricultural, engineering, and pre-medical students; (3) to offer students majoring in chemistry, geology, or biology the advantages of training in general physics as well as in certain specialized courses, bordering on their own fields, which may be of benefit to them; (4) to offer a thorough, well-rounded training to those who may elect physics as their major in a course of study leading to the Bachelor

of Science or Bachelor of Arts Degree. In this fourth category should be included those students who desire to prepare themselves for teaching positions in secondary schools, positions in the civil service requiring training in physics, scientific work with commercial companies, graduate work in this institution or in other institutions of higher learning.

The Department of Physics has for its exclusive use a lecture room with an apparatus room adjoining; four laboratories devoted wholly to the work in general physics; a light laboratory; an electrical measurements laboratory; a high-frequency laboratory; an X-ray laboratory (which also houses the U.S. Weather Bureau Sub-station); a geomagnetic research laboratory; a photographic dark-room; a shop equipped for making and repairing apparatus. The various laboratories and the apparatus room are equipped with apparatus of modern design and construction. They are supplied with A.C. and D.C. current, water, gas, and compressed air.

131-2. Elements of College Physics. Cr. 3, (2-3). I and II.

A general survey of the entire field of physics; mechanics, heat magnetism and electricity, sound and light. Important physical principles illustrated by classroom demonstration. Greater emphasis placed on the descriptive presentation of the subject matter than on the solution of problems. Primarily for Arts and Sciences, Agriculture, and Home Economics students.

137-8. Physical Basis of Speech and Music. Cr. 3, (2-3). I and II.

A general course in physics with special application to speech, music, and stage production. The subject of sound greatly enlarged; detailed treatment of the acoustics of music. Musical instruments, speech sounds, vocal and auditory mechanisms, and auditoriums; selected topics in electricity and light such as are of value in the study and use of stage equipment in dramatic performances. The method of presentation is mainly by demonstrations and lectures. For students majoring in speech and music.

141-2. General Physics. Cr. 4, (3-3). I and II.

General physics designed to meet pre-medical requirements, but may be taken by other than pre-medical students.

215-6. Physical Measurements. Cr. 1, (0-3). I and II.

Must be taken parallel with Physics 235-6 (215 with 235; 216 with 236). The object of this course is for the students to verify personally the fundamental laws of physical phenomena and to cultivate the ability and habit of making accurate observation. Required of sophomore engineering students.

233. Teaching of Physics. Cr. 3. S.

Prerequisite: One year of college physics; Ed. 131-2, or the equivalent. Demonstration lectures. The method of presentation of the subject matter, and the construction and selection of inexpensive demonstration and laboratory equipment. Students required to make out a list of laboratory equipment for a high school physics laboratory. For students who plan to teach physics in high school.

235-6. Engineering Physics. Cr. 3. I and II.

Prerequisite: One year of high school or elementary college physics; parallel enrollment in calculus. Mechanics, heat, electricity and magnetism, sound and light. Special emphasis is placed on the engineering aspects and applications of the subject matter. Required of sophomore engineering students. See Physics 215-6.

331. Light. Cr. 3, (2-3). I.

Prerequisite: Physics 131-2 and calculus. The fundamentals of geometrical and physical optics; optical instruments and the reflection, refraction, dispersion, interference, diffraction, and polarization of light.

332. Heat. Cr. 3, (2-3). II.

Prerequisite: Physics 131-2 and calculus. Thermometry; expansion; calorimetry; transference of heat; heat of chemical actions; change of state; heat properties of gases and vapors; first and second law of thermodynamics; adiabatic and isothermal transformations; and entropy.

333-4. Electricity and Magnetism. Cr. 3. I and II.

Prerequisite: Physics 131-2 and integral calculus. A mathematical treatment of the theory and application of electricity and magnetism. An introduction to electron theory, power transmission, communication, conduction of electricity through gasses, radioactivity, thermionics, photoelectricity, and X-rays.

335. Physical Meteorology. Cr. 3. II.

Prerequisite: Six hours of college physics and calculus. Physics of the air, thermodynamics of the atmosphere, elements of air mass analysis, clouds, meteorological instruments, and introduction to weather forecasting.

- 411-2. Physics Seminar. Cr. 1. I and II.
Prerequisite: Consent of the instructor. Weekly reports by students and members of the staff on recent contributions in the field of physics appearing in various scientific periodicals. Offered in alternate years; offered in 1941-42.
- 413-4. Physics Seminar. Cr. 1. I and II.
Prerequisite: Consent of the instructor. Similar to Phys. 411-2. Offered as an inducement to students to keep abreast of current advances in the field of physics during the last two years of their residence. Offered in alternate years; not offered in 1941-42.
- 423-4. Electrical Measurements. Cr. 2, (0-6). I and II.
Prerequisite: Physics 131-2 and integral calculus. Methods, instruments, and principles relating to measuring resistance, capacitance, inductance, and magnetism by direct and alternating currents. Vacuum tubes and photoelectricity. Calibration of electrical meters. Required of Electrical Engineering students.
- 435-6. Introduction to Modern Physics. Cr. 3. I and II.
Prerequisite: Physics 231-2 and calculus. Modern conceptions of the nature and property of matter; the corpuscular nature of radiant energy; X-rays; spectra; the periodic system; molecular structure; radioactivity; astrophysics.
- 531-2. Theoretical Physics. Cr. 3. I and II.
Prerequisite: Consent of the instructor. Mathematical treatment of fundamental laws, including some of the modern physics. Open to students of advanced standing.
- 533-4. Mathematical Theory of Light. Cr. 3. I and II.
Prerequisite: Physics 331 and integral calculus. Geometrical and physical optics; a review of the classical and modern theories of light.
- 535-6. Theoretical Mechanics. Cr. 3. I and II.
Prerequisite: Consent of the instructor. Advanced mathematical treatment of the entire field of mechanics.
- 537-8. Line Spectra and Atomic Structure. Cr. 3. I and II.
Prerequisite: Consent of instructor. Review of the theories of Bohr and Sommerfeld. Introduction to quantum mechanics. Study of energy level diagrams, periodic table, Zeeman effect, and theory of nuclear structure.
- 539-10. Thesis Course. Maximum credit, six hours. I, II, and S.
Prerequisite: Graduate standing and approval of head of department. Credit given on the basis of amount and quality of work done in preparation of thesis.

The following courses may be taken for graduate credit: 331, 332, 333-4, 423-4, 435-6 if an additional problem is carried; 411-2, 413-4, also 531-2, 533-4, 535-6, 537-8 if properly petitioned for in advance.

DEPARTMENT OF SPEECH

PROFESSORS PIRTLE, PENDLETON. INSTRUCTOR WATSON.

Training in the art of presenting one's thought to a group, of speaking effectively in public meetings, of thinking on one's feet, and of speaking extemporaneously is a necessary part of a college education. The college man or woman needs this training to meet adequately the demands which the world will make of him. Leadership requires ability as a speaker. The Department of Speech furnishes this training for all students of the College.

The department also provides instruction, in a broad way, for students who intend to enter the field of speech as a profession, for students of Engineering, Agriculture, and Home Economics who must sell their projects, and for students who desire to prepare themselves to take part in community affairs. Special courses are offered for students of business administration. There are courses planned to help the teacher who may be called upon to direct the various debate, play, and declamation contests. Corrective speech work is stressed, and a clinic is conducted in connection with the Lubbock Sanitarium. Extension courses for business and professional people are offered upon sufficient demand.

Speech may be offered as a minor for graduate work.

The equipment for the department includes a stage and properties for the actual practice of theory. Here various speaking situations are created in or-

der that the student may have practical experience in conducting and taking part in public affairs. A workshop is equipped with tools and materials for constructing stage sets and for making marionettes. A radio studio with local broadcasting unit is used for the practice in radio speech.

131. Fundamentals of Speech. Cr. 3. I, II.
General speech education; practical training in public speaking, with stress placed upon the original speech.
132. Fundamentals of Speech. Cr. 3. I, II.
Continuation of fundamentals with emphasis on speeches directed toward specific purposes.
231. Technique of Dramatic Art. Cr. 3. I.
Stage technique, make-up, plays for class production; principles of dramatic interpretation and characterization. Stress placed upon selection of plays and analysis of character.
232. Rehearsal and Dramatization. Cr. 3, (2-3). II.
Prerequisite: Speech 231. The direction and production of plays, back stage organization, lighting, and costuming; play writing and dramatization of literature.
233. Voice and Diction. Cr. 3. II.
The structure and functioning of the vocal apparatus. Practical application of this study to the improvement of the individual voice. Required of all majors in speech.
- 235-6. Argumentation and Debate. Cr. 3. I and II.
Prerequisite: Govt. 131-2 or parallel enrollment in government. Argumentation, analysis, evidence, persuasive speaking, and brief drawing. Class discussion and debate upon questions of present-day interest. Open to freshmen upon recommendation of the instructor. In case of seniors, credit may be given for 235, provided this completes a year of speech.
311. Parliamentary Law. Cr. 1. I, II.
The theory and practice of the principal forms and rules of parliamentary procedure. Designed to prepare students to participate in, and preside over, meetings of organized groups.
- *323. Radio Speaking. Cr. 2. I, II.
Prerequisite: Six hours of speech. A course in the study and practice of composition of radio talks, plays, and programs; radio and education; equipment; and general consideration of radio as a medium for mass communication.
- *324. Radio Speaking. Cr. 2. II.
A continuation of the study of radio practices. Script writing and research in connection with broadcasts. Only those who have done outstanding work in Speech 323 may register for this course.
331. Business Speech. Cr. 3. I and II.
Formerly 321. Prerequisite: Sophomore standing. Basic speech training and practice. The planning, construction, and delivery of the common types of informal speeches. Group conferences and projects are stressed. The fundamentals of parliamentary practice are given in connection with class work. For majors in the Department of Economics and Business Administration.
- 333-4. Stagecraft and Marionette Construction. Cr. 3, (2-3). I and II.
Prerequisite: Speech 231-2. Formerly 333 with additional material. Stagecraft; design and construction of stage models and sets. The second semester used for constructing marionettes and learning the technique of marionette performance.
337. Project Speaking. Cr. 3. I, II.
Basic principles of speech as applied to the professional man's everyday life. Emphasis on conference room and project speaking. For students of technical divisions.
421. Problems in Speech Training. Cr. 2. II.
Prerequisite: Twenty semester hours in speech. Methods of teaching speech. Review of all phases of speech. A survey of the texts in speech; emphasis on making syllabi. Required of all majors in speech.
422. Technique of Interpretation. Cr. 2. II.
Students are advised to take Speech 233 before entering this class. Practical application of the principles of oral interpretation. Various types of literature; emphasis on Shakespeare.
423. Advanced Stage Directing. Cr. 2. I.
Prerequisite: Speech 231, 232. Discussions of the problems of the director with practical work in the staging of plays for public presentation. Emphasis on full length play.
431. Advanced Public Speaking. Cr. 3. I.
Prerequisite: Speech 131-2. Methods of speech preparation and presentation; the qualities and structure of an effective address; preparation of outlines and the presentation of formal speeches and addresses.

*Consult Head of Department.

***432-3. Phonetics and Speech Correction. Cr. 3.** I and II.
Phonetics and its application to speech correction. Voice mechanism; speech difficulties, and the current methods of diagnosis and treatment. Clinics for children with speech defects conducted in the city. Required of all majors in speech. Recommended for students planning to teach.

434. Speech Seminar. Cr. 3. I, II.
Prerequisite: Junior standing and consent of instructor. Sources and methods of finding material; evaluation, assimilation, and organization. Lectures and projects. Investigations of the newer methods of teaching speech in the elementary, junior high school, and senior high school levels.

Courses in this department which may be taken for graduate credit are: 421, 422, 423, 431, 432-3 and 434, if properly petitioned for in advance and provided an additional problem is taken in each course.

BIBLICAL HISTORY AND LITERATURE

****DR. FRY
MR. McCREE**

Through the interest and cooperation of the Baptist General Convention of Texas and the St. John's Methodist Church of the Northwest Texas Conference certain courses in Biblical literature and history are offered to students in Texas Technological College. These courses carry college credit, a maximum credit of twelve semester hours being allowed. Classes are held in suitable rooms near the college campus. The work is under the regular supervision of the Division of Arts and Sciences, subject to all regulations governing other courses in the College.

131. Hebrew and Jewish History. Cr. 3. I
A study of the family records of Israel as found in the Old Testament and The Apocrypha to the birth of Jesus. Open to freshmen.

132. New Testament History. Cr. 3. II
The Ministry of Jesus, genesis of the primitive Palestinian churches, and the rise of Gentile Christianity. Open to freshmen.

137-8. Old Testament and New Testament Survey. Cr. 3. I and II.
A general acquaintance and working knowledge of the entire Bible.

222. The Epistles. Cr. 2. I, II
Peter, James, John, and Jude thoroughly studied. Special attention will be given to the practical application of these seven letters.

225. High Points in the Life of Jesus. Cr. 2. I, II.
Special emphasis given to the parables and miracles.

234. The Life of Christ. Cr. 3. I, II.
The separate incidents in the life of Christ in chronological and harmonic order. Supplementary lectures on the period between the Testaments. For freshmen and sophomores.

235. The Bible as Literature. Cr. 3. I and II.
An inquiry into the growth of the Scriptures, the types of literature in the two Testaments, and the career of the vernacular Bible. Not open to freshmen.

321. Jesus the Master Teacher. Cr. 2. S.
The personality and pedagogy of Jesus as set forth in the Gospel records of His ministry; His approach to individuals, groups, opponents, and abnormal personalities. Open to juniors and seniors.

335. The Poetic Section of the Old Testament. Cr. 3. I.
Analysis, interpretation, and laws governing Hebrew Poetry.

431. The Prophets. Cr. 3. II.
Certain of the prophetic books selected each year and carefully studied from the analytical, historical, and interpretative point of view. Open to juniors and seniors.

***Speech Clinic.** This clinic is conducted in connection with Lubbock Sanitarium and is used as a laboratory for students in the department. No credit is given, but students with defective speech are advised to report to the clinic at the hours suggested by the instructor. All students taking Speech 433 are required to spend one hour each week at the clinic doing observation and practice in remedial work. The clinic is open to anyone in West Texas with any speech difficulty.

****Deceased, May 1, 1941.**

DIVISION OF MILITARY SCIENCE AND TACTICS

ENGINEERING UNIT

PROFESSOR RINDLAUB, CAPTAIN, CORPS OF ENGINEERS.
ASSISTANT PROFESSOR WESTON, LIEUTENANT, CORPS OF
ENGINEERS. ASSISTANT INSTRUCTOR RAMSEY, STAFF SERGEANT.

The National Defense Act, as amended, provides for the establishment of units of the Reserve Officers' Training Corps at civil educational institutions. The primary object of the Reserve Officers' Training Corps is to provide systematic military training at civil educational institutions for the purpose of qualifying selected students for appointment as reserve officers in the Army of the United States.

The instruction is divided into the basic course, two years, corresponding to the freshman and sophomore years; and the advanced course, two years, corresponding to the junior and senior years. The advanced course carries with it a training camp of from four to six weeks' duration which customarily follows the first year of the advanced course. Each of the courses when entered upon becomes a prerequisite to graduation. Credits are obtained in a manner similar to that for other college work.

The requirements as to grade points for graduation from Texas Technological College apply to all semester credit hours in Military Science in the same manner as to credit hours in any other subject in the curriculum for the degree to be obtained.

BASIC COURSE

Enrollment in the Reserve Officers' Training Corps is limited to male students who are citizens of the United States, who are not less than fourteen years nor over twenty-six years of age, and who are physically fit. Membership in the present Engineering Unit is further limited to those students enrolled in approved courses in Engineering or in the Pre-engineering course in the Division of Arts and Sciences. Students registering in Pre-engineering will be dropped from the R. O. T. C. rolls at the beginning of their second year unless they transfer into one of the eligible engineering courses.

The student while in the basic course will be furnished the major portion of the prescribed uniform by the Government.

Students in the basic course may elect to be trained and employed as members of the R.O.T.C. Band, substituting band practice for a part of the hours allotted to close order or other formal drills. In order to be accepted for the band, students who have been selected must volunteer to attend one additional hour of band practice each week throughout the year as an extra-curricular activity.

ADVANCED COURSE

Students who enroll in the advanced course 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 uniforms totaling \$36.00 for the two years.
- (b) Commutation of subsistence at the rate of twenty-five cents per day from the beginning of his junior year to the end of his senior year, except during the period of camp when he is given rations in kind. This commutation is limited to a period of two years.
- (c) While at camp he will receive one dollar a 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 United States Army.

(e) Under the Selective Training and Service Act of 1940 (Public No. 783-76th Congress) students who are members of the Advanced Course in Senior R.O.T.C. Units are exempt from registration.

111-2. First Year Basic. Cr. 1, (1-2).

I and II.

Prerequisite: Eligibility to membership.

(a) Theoretical: National Defense Act and the R.O.T.C. military history and policy, organization of the army, military discipline and customs of the service, military obligations of citizenship, scouting and patrolling, interior guard duty, infantry drill, sanitation and first aid.

(b) Practical: Infantry drill, rifle marksmanship, scouting and patrolling, interior guard duty, and first aid.

211-2. Second Year Basic. Cr. 1, (1-2).

I and II.

Prerequisite: M. S. 111-2.

(a) Theoretical: Drill and Command, map and aerial photograph reading, military sketching, map-making, rigging, weapons and musketry, organization and duties of engineers.

(b) Practical: Drill and Command, military sketching, map-reading, rigging, weapons and musketry.

331-2. First Year Advanced. Cr. 3, (3-2).

I and II.

Prerequisite: M. S. 211-2.

(a) Theoretical: Drill and Command, military road construction and maintenance, military bridging (fixed and floating), military explosives and demolitions, combat training, field fortifications, mobilization training.

(b) Practical: Drill and Command, military bridging, military explosives and demolitions, field fortifications, combat training.

Summer Camp:

Six weeks in a camp whose location is designated annually by the Commanding General, Eighth Corps Area. In previous years this camp has been at Camp Logan, Colorado and Camp Bullis, Texas. Tactics and technique of engineer units, with particular emphasis on the Engineer Combat Platoon and Company. Duties of engineer noncommissioned officers and lieutenants. The application to military problems of the engineering courses pursued at the institution.

431-2. Second Year Advanced. Cr. 3, (3-2).

I and II.

Prerequisite: M. S. 331-2.

(a) Theoretical: Drill and Command, military history and policy of the United States, fixed military bridges, military law and courts-martial, infantry and engineer combat training, principles of organization of the ground, mobilization training.

(b) Practical: Drill and Command, military bridges, infantry and engineer combat training, principles of organization of the ground.

DIVISION OF GRADUATE STUDIES

ROBERT C. GOODWIN, DEAN

All graduate work in Texas Technological College is confined to work toward the degrees of Master of Science, Master of Arts, Master of Education, and Master of Business Administration, and toward professional degrees in certain branches of Engineering as are hereinafter noted, and is likewise confined to those departments whose staffs and faculties are adequate and qualified to give graduate work.

FACILITIES

The college library and laboratories of the various departments provide facilities for graduate work. New reference material is being added regularly to the Library, and scientific equipment of the various laboratories of the College is being improved continually. Positions as graduate assistants are provided in some departments. These place the graduate students in direct contact with the best trained men on the staff and give opportunity for the development of graduate work.

GRADUATE FELLOWSHIPS

Graduate fellowships are available from time to time in the Departments of Foods and Nutrition; Child Development and Family Relations; Clothing and Textiles; Home Economics Education; Biology; Chemistry and Chemical Engineering; Economics and Business Administration; Education; Geology and Petroleum Engineering; Government; Physics; Plant Industry; Animal Husbandry; and Agricultural Education. Applications for these positions should be made to the heads of the departments concerned.

THE GRADUATE STUDENT

The following students come under the supervision of the Dean of the Division of Graduate Studies and should report to him for registration:

1. Candidates for Master's Degree.
2. Students who have received a Bachelor's Degree from a recognized institution, provided they are not candidates for a second Bachelor's Degree.

A third class of students may pursue graduate work. Students in residence who lack six semester hours or less of having completed the requirements for the Bachelor's Degree may, with prior approval of the dean of the divisions concerned, enroll for courses carrying graduate credit while completing their undergraduate requirements. Though such students are not under his supervision, the Dean of the Division of Graduate Studies must approve all courses which the student may use for graduate credit. Furthermore, in such cases, if graduate credit is desired for any part of the work carried, the combined load of graduate and undergraduate courses must not exceed fifteen semester hours.

Students are admitted to the Division of Graduate Studies by the Registrar upon the basis of a complete official transcript of undergraduate work.

Candidacy for the Master's Degree

A graduate student enrolled in the Division of Graduate Studies does not automatically become a candidate for a Master's Degree. To become a candidate the student must complete the following requirements:

1. Acceptance as a candidate by the departments in which the major and minor work is to be performed.

To be accepted as a candidate by the department, the student shall present undergraduate work equivalent to a major in that department or shall have completed a minimum of twelve semester hours of advanced undergraduate work in the major department together with

advanced undergraduate courses in closely allied fields. For a minor subject the student must have completed the equivalent of the minor required for the undergraduate degree in that department or shall have completed a minimum of six semester hours in advanced undergraduate courses in such department. If the student can not meet these requirements or if a period of five years has elapsed since the student received his Bachelor's Degree, suitable leveling courses may be prescribed which must be completed without graduate credit before the student is accepted as a candidate for the Master's Degree.

It is presupposed that a student pursuing graduate work will have an undergraduate record that is above the average. In cases where the grade of B or better has not been received on at least fifty per cent of his undergraduate work, the student may become a candidate for a Master's Degree only by satisfactorily completing a preliminary examination over his major and minor fields, as well as over other work in which he may be deficient.

2. Completion of a written application for the Master's Degree.

This application will contain a detailed outline of the proposed course of study, including not only the probable courses, but also the nature of the investigation which may be summarized in a thesis. It is recommended that this application be completed at the time of the first registration as a graduate student. Nine semester hours of graduate work may be completed, however, before the submission of the application is required. Not more than nine semester hours completed before the approval of the application may count toward the Master's Degree.

As these proceedings require some time for consummation, the prospective graduate student is advised to make preliminary arrangements by mail or in person prior to the registration date.

Requirements for the Master's Degree

Having been accepted as a candidate for the Master's Degree, the student must complete the following requirements:

1. Amount of work. The minimum amount of work beyond the Bachelor's Degree required for the Master's Degree is thirty semester hours, though it is within the province of any department to increase the number of semester hours required of any particular candidate. Of this amount of work, at least eighteen semester hours including the thesis, must be completed in the major subject. At least six of the thirty semester hours must be in a department other than the major department. Two minors may be offered, though not less than six semester hours shall constitute a minor.

Courses open to graduate students for graduate credit are of two kinds:

A. Graduate Courses: These courses are open only to graduate students and cannot be used in the fulfillment of a Bachelor's Degree.

B. Advanced Undergraduate Courses: These courses are regular junior and senior courses. If such courses, or their equivalents, have not been taken for undergraduate courses, they may be taken for graduate credit, provided such courses have been approved by the Committee on Graduate Work and with the understanding that additional work over and above that completed by the undergraduate student must be completed by the student seeking graduate credit in these courses.

For the completion of the requirements for the major at least six semester hours, exclusive of the thesis, must be completed by the candidate in courses of Class 1 above; i. e., courses which are open to graduate students only.

Graduate students are limited to a load of not exceeding fifteen semester hours for each semester and a load of not exceeding six semester hours for each full summer term of six weeks if any portion of such work is to be

counted toward graduate credit. Those who may be employed or otherwise partially engaged are subject to further restrictions as set forth below.

2. **Residence Requirements:** A minimum of thirty weeks in residence at this institution is required, and, in addition, another six weeks of work must be accounted for in one of the following ways:

- A. As a resident student at Texas Technological College.
- B. As a resident student in some other college of equal rank.
- C. As a student in extension courses offered by Texas Technological College, in which a maximum of six semester hours may be accepted.

An applicant for the Master's Degree must complete all requirements for the degree within three years from the date of his enrollment for graduate study, except that a student in summer school only may have the time extended to five years.

In case a student is employed by the College, or is employed otherwise, the length of residence for the completion of the work will be increased proportionately. In case a student is enrolled for the completion of a thesis only, the number of weeks allowed toward the fulfillment of the residence requirement will in no case exceed the number of semester hours credit that the thesis will carry, regardless of the number of semesters or terms required for the completion of the thesis.

No member of the faculty or staff above the grade of instructor shall be eligible to receive a graduate degree from this college. No member of the faculty or staff shall be eligible to receive a Master's Degree in less than three years of nine months, or the equivalent, and then only in case special arrangements are made. Residence requirements of fellows, assistants, or others engaged in work not connected with their field of investigation will be increased in proportion to the amount of such work as they may perform. Holders of research fellowships, provided they are not otherwise engaged, may complete the requirements for the Master's Degree in one calendar year; i. e., one long session plus one complete summer session.

A maximum of six semester hours of graduate work may be accepted from another institution of equal rank if the student was enrolled as a resident student of that institution, provided that an additional nine semester hours may be accepted when a department recommends that a student be sent to a particular college for the consummation of particular work. Such work is to be outlined and approved by the head of the department, the dean of the division concerned, and the Committee on Graduate Work before such work is undertaken.

Work of graduate nature taken through the Extension Division of Texas Technological College may be used in fulfilling residence and work requirements for the Master's Degree but is not to exceed six weeks and six semester hours.

Either of the above methods may be used to account for six semester hours, or a combination of these methods may be used to account for six semester hours; but in no case will more than six semester hours be allowed. Furthermore, work done on any campus and reported through the Extension Department is not considered as work done in residence.

3. **Foreign Languages:** In certain departments no candidate may receive a Master's Degree without meeting requirements in foreign languages.

4. **Thesis:** The completion of an acceptable thesis constitutes one of the requirements for the Master's Degree. Credit for the thesis will regularly carry a minimum of three and a maximum of six semester hours. By vote of the Committee on Graduate Work, upon recommendation by the candidate's advisory committee, this amount may be raised to nine semester hours depending upon the extent and quality of the work done, final approval being granted only after completion of the thesis.

The supervision of research leading to a thesis is vested in an advisory committee appointed for each candidate by the Dean of the Division of Graduate Studies. The primary responsibility rests upon the major professor who will be the chairman of the advisory committee. The committee as a whole will make recommendations concerning the acceptance of the thesis and the weight in credit hours the thesis may carry.

A preliminary draft of the thesis shall be prepared in form and manner acceptable to the major professor and the committee as a whole. The candidate must submit this first draft to his committee in ample time for full consideration. Failure to do so on the part of the candidate shall be considered as grounds for non-acceptance. This preliminary draft, fully accepted must be submitted to the Dean of the Division of Graduate Studies not later than fifteen days prior to graduation.

At least three copies of the final draft of the thesis must be prepared and final approval thereon indicated by the advisory committee, the dean of the undergraduate division concerned, and the Dean of the Division of Graduate Studies. These approved copies, together with cost of binding, must be submitted to the Librarian, who will issue a receipt for the same. This receipt must be returned to the Dean of the Division of Graduate Studies not later than three days prior to the date set for commencement.

By the same date, six copies of an abstract of the thesis suitable for publication and prepared in a form approved by the major professor must be deposited with the Dean of the Division of Graduate Studies.

5. Oral Examination: In addition to the regular written examinations, of which the department in which the subject is taken is in charge, all candidates for the Master's Degree are subject to a general oral examination by the Committee on Graduate Work, and such members of the staff as may be appointed for that purpose by this committee. Such oral examinations will be given at or near the close of all course work and may cover all or any part of the work of the graduate student including all work done in extension courses or transferred from another institution. The time and place of the oral examination is fixed by the Dean of the Division of Graduate Studies.

6. Grades and Credit: No course will be accepted for graduate credit unless registration for such course has been approved by the Dean of the Division of Graduate Studies. The above regulation applies to students in extension courses.

No course will be accredited toward the Master's Degree if the grade is lower than B. If a grade lower than B is made, the student may secure graduate credit for such course only by repeating the course and making a grade of B.

In addition to these general regulations, certain restrictions and latitudes concerning admission to the Division of Graduate Studies, acceptance as a candidate, and the selection of major and minor subjects will be found in the Graduate Bulletin to which reference is made for a more detailed delineation of all requirements.

PROFESSIONAL DEGREES

An Engineering graduate of Texas Technological College may become a candidate for a professional degree of which the following are available: Chemical Engineer; Civil Engineer; Electrical Engineer; Geological Engineer; Mechanical Engineer; Textile Engineer.

The requirements for any of these degrees include acceptable professional experience, a thesis, and an examination. Professional degrees in Engineering will be conferred only on the recommendation of the Committee on Graduate Work and the faculty of the College.

A written application stating the degree desired must be submitted to the Committee on Graduate Work not later than January 1, next preceding the

date when the degree is to be conferred. This application shall include (a) a report or outline of the professional work upon which the application is based together with whatever documentary evidence may be considered pertinent, and (b) an outline of the thesis.

The professional work must comprise at least four full years subsequent to graduation, two years of which must have been in positions of responsible charge. In order to be accepted by the Committee on Graduate Work, the professional work must have been approved by the head of that department concerned and by the Dean of the Division of Engineering.

Before submission to the Committee on Graduate Work, the outline of the thesis must have been approved by the head of the department directly concerned. This thesis must constitute a distinct contribution to engineering, must be of an analytical character, and may not be merely a descriptive discussion of an engineering project nor a digest of engineering literature.

Master's Degrees in Engineering will be accepted in lieu of two years of professional experience, but will not be considered as of responsible charge.

Graduate Bulletin: For Graduate Study Bulletin write the Registrar, Texas Technological College, Lubbock, Texas.

SUMMER SESSION

J. M. GORDON, DIRECTOR

First Term begins June 4, 1941.

Second term begins July 15, 1941

The summer session of Texas Technological College is an integral part of the school year. In planning the program for the summer school, the College endeavors to offer instruction which will meet most effectively the needs and desires of its summer students. Ample opportunity is provided for the undergraduate student to meet his curriculum requirements. Likewise, the advanced students is offered a large selection of courses.

Summer session attendance has steadily grown from 336 in its first year to 1,932 in 1939. The entire College plant is available for use; many members of the regular faculty, assisted by specialists of recognized standing in various fields, offer both regular and special courses.

The summer school is designed to fill a number of needs. A student in arrears in certain subjects may attend summer school in order to complete these subjects, thus saving practically a year's work because of the order in which some courses have to be approached. The summer school likewise serves the entering student who may start his studies in June instead of September. In fact, in some phases of instruction, three years and three summer sessions may answer just as well as the usual four years. The summer session is especially helpful to teachers and to others who find it impractical to be in college during the long session.

COURSE PLAN FOR THE SUMMER SESSION

For the accomodation of those who cannot devote the entire summer to study but who may desire college credit, the summer session is divided into two terms. Students may enroll for either or for both terms. The work of the summer session is outlined on the semester basis; that is, classes meet for approximately one hour and thirty minutes each day so that a regular three-semester-hour course can be completed in a six-weeks term. The normal amount of work, therefore, is two three-semester-hour courses per term. Some courses are organized on a two-semester-hour basis, in which case classes meet one hour each day. In certain of the laboratory sciences, field courses, and a few other subjects, the work is so arranged that a student may complete the full year's work in six weeks. The schedule of recitations shows where this is possible. In general, classes in the summer session are scheduled in the morning period in order to allow for study and recreation in the afternoons and evenings.

ADMISSION

The admission requirements of the summer school are identical with those of the long session which are clearly set forth earlier in this catalogue. Graduation from an accredited high school with a minimum of fifteen units of credit is required for admission. No credit may be obtained without graduation. Students entering college for the first time will be expected to present a complete transcript of the high school record before registration.

The Registrar of the College has charge of admission to any division of the College.

ADMISSION OF TEACHERS WITHOUT TRANSCRIPTS

Public school teachers who are active in the service and who do not plan to enroll for degree or certificate work in Texas Technological College may be admitted to summer school without the submission of a formal transcript of credits from other colleges. It is distinctly understood, however, that credits gained under this arrangement are not to be counted as credit toward a

degree or certification until such transcript has been submitted. Students admitted to the summer school in this manner must present a complete transcript before being admitted to the resident work in the long session.

TEACHER PLACEMENT BUREAU AND SERVICES

A teacher placement bureau is operated for the benefit of teachers and prospective teachers who desire to secure teaching positions. All students or graduates from all divisions of the College may avail themselves of this service, for which a minimum fee is charged.

Dr. D. D. Jackson, Associate Professor of Education, is in general charge of the bureau. He will be in residence throughout the summer session.

Division of Home Economics

Seniors, graduate students, and alumnae are requested to fill out information blanks and file them in the Office of the Dean. From these blanks credentials are made up and sent to prospective employers on their request. No charge, except for postage on the credentials sent out, is made for this service.

Division of Agriculture

The Agricultural Education Department at all times offers its services to superintendents, teachers, and prospective teachers for proper placement of Vocational Agriculture teachers. Credentials are made up in uniform style for sending to prospective employers. Charges are made for postage.

AUDITING CLASSES

A general provision has been made in the College whereby students may audit classes during the long session by paying a certain fee. However, this does not obtain in the summer session and permission will not be granted to audit classes during the summer school. Persons eligible to enroll for classes may have the privilege of enrolling regularly upon the payment of the regular summer school fee.

STUDENT LOAD

The normal load for any student in either of the summer terms is six semester hours. A student may not register for more than six semester hours in the first term, unless he has maintained during the preceding long session an average of at least B on a normal schedule of work. In no case will a student be permitted to register for or secure credit in more than fourteen semester hours in the two terms, including any correspondence work. The one-hour required physical education courses may be taken in addition to the maximum load allowed. Students who have not done work previously in Texas Technological College will regularly enroll for a maximum of six semester hours, exclusive of one-hour physical education courses. Graduate students are limited to six hours in either term, or twelve hours for the entire summer. A college senior of superior ability and performance may, with the approval of his dean, enroll for fifteen semester hours if this will enable him to be graduated at the close of the summer session.

STUDENTS ON PROBATION

A student suspended at the end of the second semester of the year, either for failure to remove his scholarship probation or for failing to pass a minimum of five semester hours, is ineligible to register in the College until the beginning of the second semester of the following long session; however, if such a student attends both terms of the subsequent summer session, which he is eligible to do upon agreement with his academic dean, and if he passes in at least nine semester hours with a minimum of nine grade-points, he will have satisfied probation requirements and may enroll in the College the following September without formal petition.

GENERAL REGULATIONS

For regulations concerning absence from classes, cuts, adding courses, dropping courses, changing sections of courses, withdrawal, and other general rules, see **Information for Students**, earlier in this bulletin.

MEDICAL SERVICE

Medical service for students of the College will be given by the West Texas Hospital during the 1941 summer session. The cost of this fee will be \$2 for either or both terms. For students who have not presented a health certificate at this College since September 1, 1940, a medical examination is necessary. The cost of this examination is included in the \$2 fee.

EXPENSES

Following are the charges per student for the twelve-week session:

Tuition at \$15.00 each six-week term	\$30.00
(Three credit hours or less, minimum per term, \$10.00)	
The uniform breakage deposit (refundable)	3.00
Recreational fee (not refundable) \$1.00 each term	2.00
Medical service fee (not refundable)	2.00
TOTAL	37.00

Tuition for a normal load (four to six semester hours) is \$15 for each six-week term; for one three-hour course, or its equivalent, the tuition is \$10. The breakage deposit and the medical service fee are the same for one or both terms, being paid only once. There are no laboratory charges, except for breakage. The deposit of \$3 is refundable upon the withdrawal of the student, less any charges for loss of library books, for fines, breakage in laboratories, or other legitimate charges against such a deposit.

THE DORMITORIES

Two of the well-equipped College dormitories will be open to summer school students and teachers. These dormitories, located on the campus, each with a capacity of 320 persons, represent a cost of approximately \$325,000 each.

ESTIMATED COST

Estimated cost for the summer session, using cost for board and room in the dormitories as a basis, is as follows:

	One Term	Two Terms
Tuition	\$15.00	\$30.00
(Three credit hours or less, minimum per term \$10.00)		
Board and room	36.00	72.00
Laundry	3.50	7.00
Recreation fee	1.00	2.00
Breakage deposit (refundable)	3.00	(3.00)
Medical service fee	2.00	(2.00)
TOTAL	\$60.50	\$111.00

FIELD TRIPS AND SPECIAL COURSES

Of special interest to many students in the summer session are the various field trips and special courses offered each summer by certain departments of the College. The Departments of Biology and Geology will offer the regular field courses. The Department of History and Anthropology will sponsor a trip to New Mexico, the Department of Spanish offers a six-credit-hour course given in Mexico City. The Department of Speech will sponsor its regular non-credit three-week tour to New York City and Toronto, Canada.

Special courses in Traffic Safety and Public Health will be offered by the Division of Engineering. In the Division of Arts and Sciences, the De-

partment of Education and Psychology will sponsor a Demonstration School; the annual Summer Band School will be in session during the first summer term. Courses especially designed for vocational teachers may be had in the Divisions of Agriculture and Home Economics.

SUMMER SESSIONS IN THE LOCAL CITY SCHOOLS

Fathers and mothers attending the summer session of the College may be interested to know that their children will have access to the summer school conducted by the Lubbock City Schools. Work will be offered in certain high school subjects. Those interested should address Superintendent W. B. Irvin for full information regarding courses and tuition charges.

RECREATION

Provision has been made for an outdoor recreational center on the campus, the "Green" immediately south of the Administration Building. A varied program of education and entertainment features will be presented four evenings each week. Admission to these recreational programs will be limited to holders of recreation tickets. The program for the summer will include concerts and lectures, both from the College staff and from outside talent. Motion pictures, both educational and recreational, will be shown at regular intervals, along with news-reels and short-subjects of various types.

It is planned that holders of recreational tickets will have subscription to the summer College paper, special rates at golf courses, local theaters, and the city swimming pool.

A series of dances is sponsored by the College, in addition to the other entertainment features to be held on the campus.

THE 1941 SUMMER SESSION

The first term of the summer session extends from June 4 to July 14; the second term, from July 15 to August 22. The descriptions of the courses offered, as well as details concerning the staff, will be found in the summer session number of the College Bulletin for March, 1941.

This bulletin may be obtained by writing to the Registrar of the College.

DIVISION OF EXTENSION

J. F. McDONALD DIRECTOR

Texas Technological College through the Division of Extension offers approximately two hundred and fifty courses to those who cannot attend the regularly scheduled classes. Correspondence and extension class work offered by the Division of Extension has been approved by the Association of Texas College; the Division is a member of the National University Extension Association.

The extension service includes: (1) correspondence instruction, college and high school; (2) extension class work in centers away from the campus; (3) night extension classes on the campus; (4) adult, non-credit courses; (5) group-study courses and lectures for clubs; (6) supervised correspondence instruction; (7) visual aids: motion pictures.

REGULATIONS

1. One-fourth of the required work for a Bachelor's Degree may be done by correspondence study. The availability of the work will depend on the courses offered in the curriculum selected by the student. Additional work, both graduate and undergraduate courses, may be taken through extension classes. One-half of the work required for a teacher's certificate may be done by correspondence study.

2. The registration fee for each correspondence or extension course of one semester hour is \$5.00; of two semester hours, \$10.00; and of three semester hours, \$15.00. All fees are payable in advance and are not refunded. Extra fees may be charged in case of laboratory courses. A correspondence course may not be exchanged for some other course nor transferred to another person.

3. Students who desire college credits must meet college entrance requirements. However, students over twenty-one years of age may enroll on the basis of individual approval of the dean of the division concerned.

4. A resident student may begin or continue work in the Division of Extension only with the approval of his dean. Students at other colleges must secure the advance approval of their deans for correspondence or extension class courses, or assume the risk.

5. Persons who are regularly employed—e. g., teachers—are limited to two correspondence or extension courses, six semester hours, each semester.

6. A student who makes a grade of F on a residence course may register for the same course by correspondence only on written approval of the instructor and the dean of the division concerned.

7. In correspondence courses, a self-addressed stamped envelope with sufficient stamps must be enclosed each time for the return of the lesson sheets to the student.

8. The course should be completed within three to four and one-half months. The course will expire at the end of twelve months, but may be renewed for three months for \$2.00, if renewed within twelve months after expiration.

9. Correspondence courses and extension class courses for credit are the equivalent in content of the corresponding residence courses.

10. If college credit is to be given, the courses taken by correspondence or by extension classes must be concluded by final examinations.

11. The examinations must be taken under the supervision of the instructor, or the Director of Extension, or an official examiner, who is usually a county superintendent or a city superintendent.

12. In correspondence work, when a student is ready for the final examination, he must send an examination fee of one dollar to the Division of Extension, except that when the examination is taken on the College campus, the fee will not be charged.

13. Textbooks may be purchased from the Bookstore, Texas Technological College, Lubbock, Texas, or from the publishers.

14. Collateral books needed for a course, when available, may be obtained from the College library for two months upon a deposit of \$5 to cover loss or damages of books and service charge. The deposit, less a service charge of \$1, fines, and cost of mailing the books, will be refunded upon the return of the books. The library deposit should be sent directly to the Texas Technological College Library.

CORRESPONDENCE COURSES OFFERED

Subjects numbered from 100 to 200 are freshman courses; from 200 to 300, sophomore courses; and from 300 up, advanced courses. The college entrance courses are listed after the college courses. For a full description of the college courses, including the prerequisites, see the corresponding numbers and titles under the respective departments of the College catalogue.

The second figure of the course number shows the credit given for the successful completion of the course in semester hours. To illustrate: the figure "3" in English 131 shows a credit value of three semester hours.

Agricultural Economics and Farm Management.

- 234. Principles of Agricultural Marketing.
- 235. Fundamentals of Economics.
- 325. Farm Records and Accounts.
- 333. Cooperation in Agriculture.
- 421. Land Economics.

Agronomy

- 221. Soils.

Animal Husbandry.

- 231. Breeds of Livestock.

Anthropology.

- 331-2. Anthropology.

Astronomy.

- 131-2. General Astronomy.

Bible.

- 137. Old Testament Survey.
- 138. New Testament Survey.
- 234. The Life of Christ.
- 335. The Poetic Sections of the Old Testament.
- 431. The Prophets.

Biology.

- 331. Heredity and Evolution.
- 332. Teaching of Biology.

Business Administration.

- 244-5. Introduction to Accounting.
- 330. Principles of Finance.
- 332. Principles of Marketing.
- 333. Marketing Problems.
- 334-5. Business Law.
- 431. Office Management.
- 432. Advertising.
- 433. Personnel Administration.
- 436. Cost Accounting.

- 437. Principles of Auditing.
- 439. Credits and Collections.
- 4310. Income Tax Accounting.
- 4316. Governmental Accounting.
- 4317. Insurance.

Economics.

- 231-2. Principles of Economics.
- 234. Economic Development of the United States.
- 235. Principles of Economics.
- 331. Money and Banking.
- 332. Public Utility Economics.
- 333. Public Finance.
- 431. Transportation.
- 432. Labor.
- 433. International Economic Problems and Foreign Trade.
- 434. Economic Systems.

Education: Freshman and Sophomore.

- 131. Introduction to Education.
- 132. Classroom Management and Methods.
- 233. School Health and Hygiene.†
- 234. Principles of Secondary Education.
- 235. High School Methods.
- 236. Basic Skills in Elementary Grades: Arithmetic, Spelling, and Writing.†
- 237. Language Arts: Reading, English, and Literature.†
- 238. Materials and Methods in Social Studies of Elementary Grades.†

Education: Advanced.

- 331. Principles of Education.†
- 332. High School Problems.*
- 334. Basic Principles of Methods.**†
- 335. The Junior High School.*†
- 336. Educational and Vocational Guidance.*†
- 337. Methods in Classroom Tests.**†
- 338. Every Teacher's Problems.*†
- 3310. Children's Literature.†
- 3314. The Principal and His School.*†
- 3319. Methods in Elementary English.**
- 411. Ethics of the Teaching Profession.
- 431. Education in the United States.†
- 432. Public School Administration.*†
- 433. Public School Interpretation.*†
- 434. Supervision of Instruction.*
- 436. The Curriculum, (Orientation and Background).*†
- 439. Unit Teaching.**†

Education: Psychology.

- 230. Introduction to Psychology.
- 231. Educational Psychology.
- 331. Child Psychology.†
- 333. Measurements in Education.*†
- 335. The Psychology of Adolescence.†

Education: Special Methods.

- Math. 221. Methods of Teaching Arithmetic.
- Biol. 332. Teaching of Biology.**
- Hist. 330. Methods of Teaching History in High School.**
- Eng. 3310. Methods of Teaching English in High School.**
- Ed. 3319. Methods in Elementary English.**
- Math. 332. Methods of Teaching Algebra and Geometry.**
- Span. 435. Methods of Teaching Spanish.**

†May be taken as a two-hour course.

*Administration.

**Methods.

English: Freshman and Sophomore.

- 131-2. Freshman Composition.
- 231-2. Introduction to Literature.
- 233. Technical Writing. (Engineering).
- 234. Special Work on Correct Usage. (Agriculture).

English: Advanced.

- 332. History of the English Language.
- 336. Augustan Age.
- 337. Grammar for Speech (Advanced Grammar).
- 338. American Poetry: Bradstreet to Whitman.
- 339. American Poetry: Emily Dickinson to the Present.
- 3310. The Teaching of English in High Schools.**
- 3311. English in Business Practice.
- 3312. Advanced Composition.
- 3313. Contemporary English Poetry.
- 3314. Literary Aspects of the English Bible.
- 3315. The Contemporary Short Story. (Cobb, Conrad, Dreiser, Galsworthy, Wells, and others).
- 3316. The Contemporary American Novel. (Howells, James, Garland, Wharton, Cather, and others).
- 3317. The English Novel: Lyly to Scott.
- 3318. Types of English and Foreign Fiction: 1825 to 1910. (Dickens, Thackeray, Bronte, Hardy).
- 3320. American Drama to 1930.
- 3321. Current American Drama.
- 431. Restoration and Eighteenth Century Drama.
- 432. Shakespeare (Richard III, Romeo and Juliet, Hamlet, and others).
- 433. Shakespeare (Julius Caesar, Macbeth, King Lear, and others).
- 434. Milton.
- 435. English Romanticism (Wordsworth and Coleridge).
- 436. English Romanticism. (Scott, Shelley, Keats, Byron).
- 438. Nineteenth Century English Prose (Macaulay, Lamb, Carlyle, and others).
- 439. Contemporary Drama: Ibsen to Shaw.
- 4310. English Poets of the Nineteenth Century (Tennyson, Browning, and others).
- 4311. English Poets of the Nineteenth Century (Rossetti, Morris, Swinburne, and others).
- 4312. The Age of Johnson: Johnson and His Circle.
- 4313. Literary Biography (Works of Cellini, Pepys, Boswell, Franklin, Strachey, Bradford).
- 4315. Elizabethan Lyric.
- 4316. The Structure of the Novel.

French.

- 131-2. A Beginning Course in French.
- 231-2. A Reading Course in French.
- 331-2. A Rapid Reading Course (Contemporary French Literature).

Geography.

- 131-2. Principles of Geography.
- 331-2. Resources and Industries of the World.

German.

- 131-2. A Beginning Course in German.
- 231-2. A Reading Course in German.
- 233-4. Scientific German.

Geology.

- 411-2. Geology of Texas.

**Methods.

Government.

- 131. American Government, National.
- 132. American Government, State.
- 231. Introduction to Political Science.
- 232. Modern Governments.
- 320. American Government, National and State (Texas).
- 325-3. Contemporary Problems.
- 331. Local Government.
- 334. American Political Parties, Party Analysis.
- 431-2. American Constitutional Law.
- 433-4. American Political Ideas (American Democracy).
- 435-6. International Law.
- 437. Political Geography.

History.

- 131-2. History of Civilization.
- 231-2. Economic and Political History of England.
- 231-2. Economic and Political History of the United States.
- 330. Teaching History in High Schools.
- 331. The Canadian Dominion.
- 3313-14. Contemporary Europe, 1870-1936.
- 3316. The British Empire.
- 3317. The Contemporary European War.
- 430. English Colonial America.
- 431-2. History of Latin America.
- 435. History of American Diplomacy.
- 436-7. History of the United States, 1789-1837.
- 438-9. History of Texas.
- 4311-12. Civil War and Reconstruction.
- 4313-14. The United States Since the Civil War.
- 4315. Constitutional Developments in Texas.

Home Economics.

- 433. Family Relations. (Child Development 433.)

Horticulture.

- 322. Landscape Appreciation.

Journalism.

- 231-2. Newspaper Reporting and Writing.
- 330. Typography.
- 331. Special Feature Articles.
- 332. Magazine Article Writing.
- 333. Problems of the Community Newspaper.
- 335. History of American Journalism.
- 3311. Agricultural Journalism.
- 430. Principles of Journalism.
- 431. Critical Writing.
- 432. High School Publications.
- 434. Editorial Writing.
- 435-6. Principles of Advertising.

Latin.

- 131-2. A Beginning Course in Latin.
- 231-2. Reading and Composition (Selections from Caesar, Cicero, Virgil).
- 331-2. Virgil's *Aeneid*, Introduction to Horace, Cicero's *De Senectute*, The *Phormio* of Terence.

Mathematics.

- 121-2. Algebra (Engineering).
- 130. Algebra. (Arts and Sciences).
- 131. Trigonometry.
- 132. Analytics.
- 137. Commercial Algebra.
- 138. Mathematics of Finance.

- 221. Methods of Teaching Arithmetic.
- 231-2. Mathematics for Students of Agriculture.
- 233. Calculus Applications.
- 235-6. Analytic Geometry.
- 237. Mathematics of Insurance.
- 238. Business Statistics.
- 239. A Survey Course in Elementary Mathematics.
- 251. Calculus. (Engineering).
- 321. Differential Equations (Engineering).
- 332. Methods of Teaching Algebra and Geometry.
- 333-4. Advanced Algebra.
- 335-6. Differential and Integral Calculus.
- 431. Advanced Calculus.
- 433. Theory of Equations.
- 437. Higher Geometry (for mathematics teachers, especially).

Music.

- 121-2. Solfeggio (Elementary Music).
- 123-4. Harmony (Elementary).
- 221-2. Solfeggio (Elementary Music, Advanced).
- 223-4. Harmony (Advanced).
- 335-6. History and Appreciation.

Music: Band.

- 321. Band Conducting and Methods.*
- 421-2. Band Conducting and Methods.*

Philosophy.

- 330. Introduction to Philosophy.
- 338. Elements of Ethics.
- 431. Aesthetics.
- 436. Philosophy of Religion.

Physical Education.

- 230. Principles of Health Education.
- 237-8. Technique of Sports.
- 337. History of Physical Education.
- 434. Principles of Physical Education.

Psychology. (See Education).**Rural Sociology.**

- 432. Rural Sociology.

Sociology.

- 330. Introduction to Sociology.
- 331. Social Pathology.
- 333. Current Social Problems.†
- 431. Marriage.

Spanish.

- 131-2. A Beginning Course in Spanish.
- 231-2. Grammar, Reading, Composition, and Conversation.
- 331-2. Contemporary Literature.
- 333-4. Introduction to Latin-American Life and Literature (Com. Sp.).
- 435. Teacher's Course in Methods of Teaching Spanish.
- 436-7. Advanced Grammar, Composition, and Style.*

*By correspondence and conference.

†May be taken as a two-hour course.

CORRESPONDENCE COURSES TO MEET COLLEGE ENTRANCE REQUIREMENTS

The following college entrance courses are now available. The application must be approved by the high school principal or superintendent concerned.

Agriculture, Economics, and Sociology.

- Advertising, $\frac{1}{2}$ unit, \$10.00.
- Agriculture, $\frac{1}{2}$ unit, \$10; 1 unit, \$15.00.
- Bookkeeping, $\frac{1}{2}$ unit, \$10; 1 unit, \$15.00.
- Commercial Geography, $\frac{1}{2}$ unit, \$10.00.
- Commercial Law, $\frac{1}{2}$ unit, \$10.00.
- Contemporary Social and Economic Problems, $\frac{1}{2}$ unit, \$10.00.
- Economics, $\frac{1}{2}$ unit, \$10.00.
- Junior Business Training, 1 unit, \$15.00.
- Occupations, $\frac{1}{2}$ unit, \$10.00.
- Retail Selling, $\frac{1}{2}$ unit, \$10.00.
- Salesmanship, $\frac{1}{2}$ unit, \$10.00.
- Sociology, $\frac{1}{2}$ unit, \$10.00.
- Typewriting, $\frac{1}{2}$ unit, \$10.00.

Bible.

- Old Testament, $\frac{1}{2}$ unit, \$10.00.
- New Testament, $\frac{1}{2}$ unit, \$10.00.
- Old and New Testament, 1 unit, \$15.00.

English.

- Composition and Rhetoric, $\frac{1}{2}$ unit, \$10.00; 1 unit, \$15.00; 2 units, \$30.00.
- American Literature and Composition, $\frac{1}{2}$ unit, \$10.00; 1 unit, \$15.00.
- English Literature and Composition, $\frac{1}{2}$ unit, \$10.00; 1 unit, \$15.00.
- Journalism: Newspaper Feature Writing, 1 unit, \$15.00.

Foreign Language.

- Latin I, $\frac{1}{2}$ unit, \$10.00; 1 unit, \$15.00.
- Latin II, $\frac{1}{2}$ unit, \$1.00; 1 unit, \$15.00.
- Spanish I, $\frac{1}{2}$ unit, \$10.00; 1 unit, \$15.00.
- Spanish II, $\frac{1}{2}$ unit, \$10.00; 1 unit, \$15.00.

History and Civics.

- Ancient History, 1 unit, \$15.00.
- American History, $\frac{1}{2}$ unit, \$10.00; 1 unit, \$15.00.
- Civics, $\frac{1}{2}$ unit, \$10.00; 1 unit, \$15.00.
- English History, $\frac{1}{2}$ unit, \$10.00; 1 unit, \$15.00.
- Latin-American History, $\frac{1}{2}$ unit, \$10.00.
- Modern History, 1 unit, \$15.00.
- Texas History, $\frac{1}{2}$ unit, \$10.00.
- World History, 1 unit, \$15.00.

Mathematics.

- Advanced Arithmetic, $\frac{1}{2}$ unit, \$10.00.
- Commercial Arithmetic, $\frac{1}{2}$ unit, \$10.00.
- Algebra I, Beginner's Course, $\frac{1}{2}$ unit, \$10.00; 1 unit, \$15.00.
- Algebra II, Algebra Continued, $\frac{1}{2}$ unit, \$10.00; 1 unit, \$15.00.
- Plane Geometry, $\frac{1}{2}$ unit, \$10.00; 1 unit, \$15.00.
- Solid Geometry, $\frac{1}{2}$ unit, \$10.00.
- Trigonometry, $\frac{1}{2}$ unit, \$10.00.

EXTENSION CLASS CENTERS

Extension classes will be organized in convenient centers upon request of a sufficient number of students, depending upon the distance. Both graduate and undergraduate courses are available. The fee is \$5.00 per semester hour. Those interested in securing centers should communicate with the Director of Extension.

NIGHT CLASSES ON THE CAMPUS

Night classes, meeting once or twice a week, as may be arranged, will be organized upon the request of a reasonable number, usually ten. Both graduate and undergraduate courses are available. Undergraduate courses given on the campus at night by extension carry residence credit. In some instances both credit and non-credit courses are given. The fee for any subject is \$5.00 per semester hour. A laboratory fee is charged for the laboratory sciences.

COURSES FOR STUDY CLUBS

This service includes study outlines and lectures. Details will be given on request.

SUPERVISED CORRESPONDENCE INSTRUCTION

Supervised correspondence courses will be given in convenient centers where ten or more request this service.

VISUAL AIDS: MOTION PICTURES

Sound and silent motion picture films are available for reasonable rental fees. The list of subjects and the rates charged will be sent on request.

FURTHER INFORMATION

For further information in regard to any of the extension services listed above, please write the Division of Extension, Texas Technological College, Lubbock, Texas.

ENROLLMENT

REPORT OF ENROLLMENT FOR THE LONG SESSION, 1940-41

	Freshmen	Sophomores	Juniors	Seniors	Graduates	Totals
Agriculture	183	121	65	137	13	519
Engineering	199	245	169	224	2	839
Home Economics	146	114	86	105	5	456
Arts & Sciences (By Majors:)						
Bus. Admin.	244	214	114	108	6	686
Education	38	48	55	59	23	223
Sciences	141	103	52	61	14	371
General	453	199	155	142	33	982
	876	564	376	370	76	2262
Totals	1404	1044	696	836	96	4076

(Based on Classification at beginning of Spring Semester, 1941)

ENROLLMENT FOR THE SUMMER SESSION, 1940

	Freshmen	Sophomores	Juniors	Seniors	Graduates	Totals
Agriculture	21	29	35	49	30	164
Engineering	47	58	47	50	4	206
Home Economics	15	32	54	77	36	214
Arts & Sciences (By Majors:)						
Bus. Admin.	25	29	34	51	19	158
Education	6	13	76	122	194	411
Sciences	25	21	33	50	27	156
General	55	63	90	124	159	491
	111	126	233	347	399	1216
Totals	194	245	369	523	469	1800

EXTENSION

Enrollment in extension classes	206
Enrollment in correspondence courses	857
Total enrollment June 1, 1940 to June 1, 1941	1063

ATTENDANCE 1925-1941

Year	Long Session	Summer Session	Extension	Totals
1925-26	1043	336		1379
1926-27	1535	677		2212
1927-28	1682	965	386	3033
1928-29	2088	1298	820	4206
1929-30	2353	1316	1098	4767
1930-31	2319	1556	1227	5102
1931-32	2155	1606	1011	4772
1932-33	2332	1288	833	4453
1933-34	2361	1970	1236	5567
1934-35	2684	1956	1403	6043
1935-36	2748	1678	1522	5948
1936-37	3010	1695	1255	5960
1937-38	3494	1839	1067	6400
1938-39	3896	1932	1137	6965
1939-40	4246	1800	1198	7244
1940-41	4076		1063	

**ATTENDANCE AT MEETINGS, CONFERENCES, AND SHORT COURSES SPONSORED
BY THE DIVISIONS OF THE COLLEGE FOR THE YEAR, 1940-41**

SERVICES BY THE DIVISION OF AGRICULTURE, 1940-41

Attendance at Meetings, Conferences, and Short Courses Sponsored by the Departments:	
Agricultural Education	2150
Animal Husbandry	1010
Dairy Manufactures	925
Plant Industry	3839

SERVICES BY THE DIVISION OF ENGINEERING, 1940-41

Attendance at Meetings, Conferences, and Short Courses Sponsored by Division of Engineering:	
Course for Public Health Workers and Sanitation Officers	14
otton Classing Schools, Summer 1940	40
Average Attendance at Engineers' Show for Each of Five Buildings	4970
Primary Civil Pilot Training Courses	
Summer School, 1940	45
Long Session., 1940-41	80
Primary Civil Pilot Training Courses	
Long Session, 1940-41	80
Production Engineering	9
Course in Welding	15
Course in Machine Tool Operation	15

SERVICES OF THE DIVISION OF HOME ECONOMICS 1940-41,

Attendance at Meetings, Conferences, Short Courses Sponsored by Departments:	
Departments:	
Applied Arts	288
Child Development	860
Home Economics Education	1096
Clothing and Textiles	470
Attendance at Annual Home Economics Open House	3985

SERVICES BY THE DIVISION OF ARTS AND SCIENCES

Attendance at Meetings and Conferences Sponsored by Departments:	
Education (Including Interscholastic League, 3,000 and Guidance Conference, 1250)	4550
Foreign Languages	200
Journalism	300
Music	350
Physical Education for Women	310
Speech	2500

DEGREES CONFERRED 1927-1940

Division of Agriculture	
Bachelor of Science	421
Master of Science	18
Division of Engineering	
Bachelor of Architecture	11
Bachelor of Arts	33
Bachelor of Commercial Art	3
Bachelor of Science in Architectural Engineering	23
Bachelor of Science in Chemical Engineering	55
Bachelor of Science in Civil Engineering	88
Bachelor of Science in Electrical Engineering	109
Bachelor of Science in Geological Engineering	21
Bachelor of Science in Industrial Education	1
Bachelor of Science in Industrial Engineering	5
Bachelor of Science in Mechanical Engineering	95
Bachelor of Science in Petroleum Engineering	18
Bachelor of Science in Textile Engineering	38
Bachelor of Science in Textils	19
Master of Science	9
Division of Home Economics	
Bachelor of Science	403
Master of Science	7
Division of Arts and Sciences	
Bachelor of Arts	1886
Bachelor of Business Administration	404
Bachelor of Science	77
Bachelor of Science in Education	390
Master of Arts	370
Master of Business Administration	5
Master of Education	19
Master of Science	21
Doctor of Laws	5
Doctor of Science	1
Totals	4555

SCHOLARSHIPS AND PRIZES

The following scholarships and prizes were awarded for the year 1939-40:

Standefer-Canon Award to the football letterman making the highest grades for the year, awarded to George Philbrick of Dallas, Texas, whose name is to be inscribed on the silver football plaque in the athletic office.

Pan-Hellenic Society Prize of \$50 to the freshman student in the Division of Home Economics making the highest grade in her work for the year, awarded to Vera Thormann of Loraine, Texas.

Gargoyle Club Prize—this year the book, "Encyclopedia of Art", to the freshman student doing the best work either in Architecture, Architectural Engineering, or Commercial Art, awarded to Dorothy Dean Sain of Big Spring, Texas.

Faculty of the Department of Architecture and Allied Arts Prizes—to the seniors graduating either in June or August who have done the best work in this department—the book, "Mont-Saint-Michel and Chartres" by Henry Adams, given to L. V. Assiter of Lubbock, Texas, a student in Architecture; the book, "Men of Art" by Thomas Craven, given to Josephine Welmaker of Lubbock, Texas, a student in Architecture; the book, "Mont-Saint-Michel and Chartres" by Henry Adams to Fredrika Boswell of Fort Worth, Texas, a student in Commercial Art.

Mary Overton Craig Prize in Chemistry by Dr. and Mrs. William M. Craig in memory of Mary Overton Craig to the young man of the sophomore class who shows the greatest promise as a future chemist, awarded to Walter Studhalter of Lubbock, Texas.

American Society of Mechanical Engineers Award—a book, "John Stephens, An American Record", by Archibald Douglas Turnbull, presented to the most valuable member of the local branch of the American Society of Mechanical Engineers for the past year's activities, awarded to G. G. Fairley of Denison, Texas.

National Association of Cotton Manufacturers Award for the highest ranking senior student in Textile Engineering, awarded to Lloyd Jackson of Lubbock, Texas.

Avalanche-Journal cash award of \$50 for the best work in reporting during the fall semester, awarded to Virginia Glenn of Wellington, Texas.

Wilbur C. Hawk Memorial Scholarship of \$50 cash given by the Amarillo Globe-News to the student doing the best work in reporting for the spring semester, awarded to Roy L. Krebbs of Levelland, Texas.

Mrs. J. T. Hutchinson award of \$100 cash to the journalism major of sophomore or junior rank having the best scholastic average for the year 1939-40, awarded to Mary Margaret Tunnell of Tahoka, Texas.

The Roscoe Wilson Memorial Scholarship in Foreign Languages, in the amount of \$270, given by Mrs. Roscoe Wilson in memory of her husband, a former member of the Board of Directors, to a worthy student majoring in foreign languages and having a high academic standing, awarded one-half to Elisabeth Fox of Lubbock, Texas, and one-half to Dorothy Margaret Forbis of Wellington, Texas.

The Lubbock Chapter of the Reserve Officers Association Prize, a sabre, presented to the outstanding individual officer of the first year advanced course in Military Training, awarded to Norman C. Foote of Longview, Texas.

The West Texas Geological Society Merit award consisting of a two-year paid-up membership in the American Association of Petroleum Geologists, given by the West Texas Geological Society to the outstanding student of the Geology Department of Texas Technological College, awarded to George T. Thomas of Lubbock, Texas.

The Lubbock Cotton Oil Company Scholarship in the amount of \$50 to be used in the payment of next year's college expenses, awarded to the junior member of the Block and Bridle Club who makes the highest scholastic rating for the college year, awarded to Roy Wilkes of Floydada, Texas.

Debate Awards—because of outstanding work done by Waggoner Carr and Warlick Carr of Lubbock, Texas, in their fourth year in college debate, and because of their winnings in the men's division of various tournament debates, both these seniors were awarded class rings by the Lubbock County Bar Association.

The Texas Cotton Seed Crushers' Graduate Fellowship (a research fellowship) of \$500, which has been awarded to a graduate student in Animal Husbandry for several years, awarded to John Henry Baumgardner of Wellington, Texas.

The Sears Roebuck and Company Graduate Fellowship of \$500, which has been awarded to a graduate student for several years, awarded to Cleveland L. Littlepage of Rotan, Texas.

HONORS 1939-40

Highest Senior in the entire College: Joe Reeder Foote of Roscoe, Texas, Division of Arts and Sciences. Grade point average: 2.894.

Highest Senior in the Agriculture Division: Edwin Barton Williams, of Dallas, Texas. Grade point average: 2.76.

Highest Senior in the Engineering Division: Robert Jackson of Lubbock, Texas. Grade point average: 2.78.

Highest Senior in the Home Economics Division: Fern Allene Smith of Big Spring, Texas. Grade point average: 2.85. *

Highest Senior in the Arts and Sciences Division: Joe Reeder Foote of Roscoe, Texas. Grade point average: 2.894.

Honors in scholastic standing are noted in the list of names of graduates under **Degrees Conferred**.

DEGREES CONFERRED 1939-40

June 3, 1940

DIVISION OF AGRICULTURE

Bachelor of Science in Agriculture

Name	Major	Address
Prentice Delaven Allen	Agricultural Education	Lubbock
Wade N. Bailey	Agricultural Education	Levelland
Forrest Godfrey Baumgardner	Dairy Manufactures	Wellington
William F. Bell	Dairy Manufactures	Dorchester
John Carl Bergner	Agronomy and Farm Machinery	Texhoma, Oklahoma
John Raney Bertrand	Agricultural Education	White Deer
Ernest Carl Bramlett	Agricultural Education	Stephenville
Zane G. Brewer	Agricultural Education	Olton
David H. Carson	Animal Husbandry	Bovina
John P. Cogdell	Agronomy	Crowell
Louvil Ray Copeland	Agricultural Education	Bowie
William Webb Cox	Animal Husbandry	El Paso
James Wade Davis	Agricultural Education	Hale Center
Fred A. Day	Horticulture	Bryan
Thomas L. Devin	Agriculture Education	Tulla
Monroe Scott Doss	Animal Husbandry	Seminole
I. J. Duff, Jr.	Agricultural Education	Weinert
Joe B. Farr	Dairy Manufactures	Hermleigh
Earl Louis Fine	Agronomy	Posey
Oscar Merle Fowler	Agricultural Education	Happy
Shirley Leon Garrison	Agricultural Education	Idalou
John C. Geary	Animal Husbandry	Dumas
Boyd Emanuel Gregory	Agricultural Education	Idalou
Walter C. Hadley	Agricultural Education	Farwell
Jack W. Hancock	Animal Husbandry	Tahoka
Floyd Heck	Animal Husbandry	Wilson
Gehrome Holloway	Agronomy	Tarzan
Bertram Jack	Agronomy and Farm Machinery	Friona
John F. Jackson	Animal Husbandry	Roaring Springs
Truman John Jones	Agricultural Education	Poolville
David Sloan Kritser, Jr.	Animal Husbandry	Amarillo
William Johnson Lee	Agronomy	Littlefield
Woodson W. Lindsey	Horticulture	Lubbock
Herman W. Lovett	Agronomy and Farm Machinery	Nocona
J. D. McCracken	Agronomy	Odessa
Joseph Weldon McCreary	Agricultural Education	Rockwood
James Thomas McMenamy	Farm Management	Lubbock
Clyde Aaron Montgomery	Animal Husbandry	Littlefield
Tom Moore	Agricultural Education	Roane
T. A. Peays, Jr.	Animal Husbandry	Robert Lee
Sylvan Horace Pederson	Agronomy	Clifton
Winston Pettus	Animal Husbandry	Graham
James Russell Reed, Jr.	Animal Husbandry	San Angelo
Randall Fuston Reeves	Agronomy	Welch
Orville Wilson Richardson	Agricultural Education	Slaton
R. K. Rogers	Dairy Manufactures	Lubbock
A. C. Sears	Animal Husbandry	Merkel
Stewart Edmond Sewall	Animal Husbandry	Jacksboro
Elmond Cowan St. Clair	Agriculture Education	Lubbock
William E. Sutton	Agronomy	Lubbock
John L. Teague	Dairy Manufactures	Howe
Walter Thompson	Agricultural Education	Farwell
Ellzey Davidson Vanderburg	Agronomy	Pampa
Ray Charles Walker	Farm Management	Plainview
Edward White	Agricultural Education	Springlake
Leo Lester White	Agricultural Education	Springlake
Howard H. Wilkowske	Dairy Manufactures	Denison
Edwin Barton Williams—with Honors	Dairy Manufactures	Dallas
John Amos Wright	Animal Husbandry	Breckenridge

DIVISION OF ENGINEERING

Degree of Bachelor of Science in Architectural Engineering

Charles Howard McNeese		Lubbock
Bachelor of Arts (Major: Architecture)		
L. V. Assiter		Floydada
Josephine Welmaker		Lubbock
Bachelor of Arts (Major: Commercial Art)		
Kathryn Black		Lubbock
Fredrika Carter Boswell		Fort Worth
Burline Boynton		Lubbock
Helen Anne Cantrell		Plainview
Joyce Craven		Lubbock

Layuna Pauline Cromer	Lubbock
Elizabeth Ann Harper	Lubbock
Julia Pollard Lingle	Lubbock
Rosalyn Bass Sasser	Lubbock
Emily Carolyn SoRelle	Amarillo

Bachelor of Science in Chemical Engineering

Aubrey Loren Brady	Lubbock
Wilson McMullan Chapman	Lubbock
Jack O'Dowd Conroy	Cleburne
Nelson English, Jr.	Lubbock
Edwin Paul Hailmark	Loraine
H. L. Hardy, Jr.	Throckmorton
Robert LeRoy Jackson—With Honors	Lubbock
James T. Young	Arlington

Bachelor of Science in Civil Engineering

C. Carthel Armstrong, Jr.	Anson
Wyatt Anderson Burks, Jr.	Fort Worth
Garth A. Fuquay	Mt. Vernon
Martin L. Kuykendall	Dexter, New Mexico
Emerson R. McGee	Borger
Robert George Schlinkman	Dumas

Bachelor of Science in Electrical Engineering

Charles Finley Barnard	Tulsa, Oklahoma
James Basil Bryant	McKinney
Albert Arnold Clark	Happy
Leroy Weston Evans—With Honors	Hagerman, New Mexico
Raymond Edgar Glass	Amarillo
Bob F. Goodson	Lubbock
Lavoy H. Hooker	Lubbock
E. L. Howard	Post
Jack Odell Nelson	Lubbock
Rex A. Tynes	Lubbock
W. Kenneth H. Woods	Holland

Bachelor of Science in Industrial Education

John Graham Horner	Hallsville
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Bachelor of Science in Mechanical Engineering

James Henry Cowan	Spur
Charles Henderson Feltz	Dumas
Guy Wesley Ginn	Lubbock
Clovis Green	Lubbock
Richard Wilson Hurn	Henrietta
Herbert Cecil Pinkston, Jr.	Wichita Falls
Hugo Ernst Richter, Jr.	Abernathy
Fred Arthur Stout, Jr.	Midland
James W. Turnbow—With Honors	Slaton
Floyd Lewis Williams	Lubbock

**Bachelor of Science in Mechanical Engineering
Administrative Option**

William A. Bratton, Jr.	Pampa
Robert Newell	Lubbock

**Bachelor of Science in Petroleum Engineering
Geology Option**

Bland Bounds	Baird
Ray E. Halsey	Plainview
Charles Berthul Leuenberger	Lubbock
Henry Winston Nippert	Clarendon

**Bachelor of Science in Petroleum Engineering
Geophysics Option**

Alexander Wilson Chapman	Quitaque
Aubrey Austin Morgan	Athens
Rufus E. Ryan	Dallas

Bachelor of Science in Geological Engineering

Earl Clint Buffington	Midland
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Bachelor of Science in Textile Engineering

Lloyd Harold Jackson	Lubbock
Ersel H. Matthews	Floydada

DIVISION OF HOME ECONOMICS**Bachelor of Science in Home Economics**

Edith Elizabeth Akarman	General Home Economics	Brigantine, New Jersey
Bennett Curry Benson	Home Economics	Seminole
Margaret Ragsdale Birkman	Foods and Nutrition	Lubbock
Viola Joyce Black	Home Economics Education	Lubbock
Fayrene Booker	Home Economics Education	Lubbock
Anne May Buckley	Clothing and Textiles	Fort Worth
Winola Christelle Carter	Home Economics Education	Weatherford
Mary Len Crawford	Home Economics Education	Childress
Etola Marie Garrison	General Home Economics	Idalou

Joyce Anita Gill	Home Economics Education	Levelland
Jane Katherine Godfrey	Home Economics Education	Spur
Ruby Lee Gray	Home Economics Education	Tahoka
Mary Kathryn Gunter	Home Economics Education	Conway
Laura Hard	Home Economics Education	Shallowater
June Guinn Harvey	Home Economics Education	Shamrock
Christine Fincher Henslee	Home Economics Education	Hereford
Julia Argen Hix	Home Economics Education	Wellington
Maretha Frank Holloway—with High Honors	General Home Economics	Lubbock
Blanche Marie Jones	Home Economics Education	Westbrook
Dessie Katherine Lewis	Home Economics Education	Shamrock
Helen Louise McCrummen	Home Economics Education	Lubbock
Dorothy Canzada McCuiston	Home Economics Education	Stamford
Louester Higgins Marshall	General Home Economics	Lubbock
Edith Maryetta Masten	Home Economics Education	Plainview
Annetta May	Home Economics Education	Sweetwater
Wilma Fay Milburn	Home Economics Education	Cresson
Annie Viola Nachlinger	Home Economics Education	Hermleigh
Almarine Nunnally	Home Economics Education	Gall
Frances Berniece Parris	Home Economics Education	Shallowater
Ruth Hazel Peden	Home Economics Education	Lubbock
Mildred Katherine Pratt	Home Economics Education	Willis
Elsie Pulley	Home Economics Education	Cisco
Helenoire Reynolds	Home Economics Education	Lubbock
Lometa Faye Rogers	Home Economics Education	Arlington
Alice Rorex	Home Economics Education	Panhandle
Pearl Mildred Scarborough	Home Economics Education	Petersburg
Valoris Shaffer	Home Economics Education	Friona
Lois Sheehan	Home Economics Education	Friona
Dorothy Yukki Shimotsu	Foods and Nutrition	Rangerville
Marie Shook	Home Economics Education	Sweetwater
Fern Allene Smith—with High Honors	Home Economics Education	Big Spring
Doris Spann	Home Economics Education	Plainview
Anibel Lee Speer	Home Economics Education	Dickens
Elizabeth Addean Sterrett	Home Economics Education	Abernathy
Mabel George Tanner	General Home Economics	Rule
Winnie Lavenia Temple	Foods and Nutrition	Lubbock
Clara Frances Weddle	Home Economics Education	Bonham
Louise Christine Weil	General Home Economics	Hale Center
Laurette Ayers Wilson	General Home Economics	Lubbock
Ruth Wiman	Home Economics Education	Roscoe
Evelyn Lenora Worley	General Home Economics	Snyder

DIVISION OF ARTS AND SCIENCES

Bachelor of Arts

William Amos Amerson	English	Shallowater
Florence Alvin Baldwin	English	Lubbock
Leon Borden Blair	Government	Lubbock
Nellie Faye Bradley	Education	Fife
Alvarene E. Bullock	English	Becton
W. Lee Byrd	Speech	Claude
Jo Marie Carmack	Journalism	Clovis, New Mexico
Marvin Warlick Carr	Government	Lubbock
Vincent Waggoner Carr	Government	Lubbock
Sherrell Caviness	Spanish	Tahoka
Rosalie Whitworth Chappell	Speech	Lubbock
Mary Frances Senter Clark	English	Fort Worth
Charles Compton	Journalism	Portales, New Mexico
Helen Lorraine Corley	English	Olney
Harold Foster Crites	History	Lubbock
Eileen Clair Crosby	English	Borger
John R. Cummings	English	Byers
Charles Ernest Curry	Chemistry	Haskell
Thelma Davidson	English	Chillicothe
Herma Atha Duke	Education	Lubbock
Leah Iris Dunlop	English	Lubbock
Ota Elisabeth Fox—with Honors	French	Lubbock
Vernene Franks	English	Wellington
Lillian Lorene Garrison	Spanish	Houston
Myron Timothy Ghetlian	Spanish	Lubbock
Emma Maurycy Giles	English	Tahoka
Betty Alice Gordon	English	Lubbock
Martha Elizabeth Green	Speech	Mobeetle
Thomas J. Harris	Journalism	Lubbock
Ora Mae Harvey	Journalism	Shamrock
Wallace Euel Hawkins	Government	Lubbock
Edward Henry Holmes	Government	Shamrock
Mary Nell Holt	Latin	Lubbock
Katalynn Humphries	English	Whiteflat
Arthur Dale Jackson	Government	Lubbock
Ernest Victor Joiner	Government	Lubbock
Clemens Augustus Kathman	Journalism	Portales, New Mexico

Vorus Coats Kelly	Journalism	Lubbock
Crystal Evelyn Kennedy	Government	Muleshoe
Dahlia Jewel Kirby—with High Honors	English	Lubbock
Virginia Estella Knapp	Journalism	Lubbock
Joseph Patrick Leonard	Geology	Lubbock
Grace Vestal Leuschner	English	Waco
Bertha Elnora Lieske	Education	Sweetwater
Mary Paul Long	Speech	Lubbock
Elaine Loving	English	Amarillo
Clara Jean McDavid	English	Amarillo
Mary Louise McDonald—with Honors	History	Lubbock
Walter Carl Marshall	Botany	Floydada
Julia Margaret Martin	Journalism	Grand Prairie
Hazel Daurice Mitchell	Journalism	Olton
Florence Lillian Meekma	English	Lovington, New Mexico
Evelyn Pearl Moore	English	Quitaque
Harold Vernon O'Neal	History	Panhandle
Alice Olivia Palmer	Journalism	Weinert
James W. Partin, Jr.	History	Lubbock
Betty Louise Payne	Spanish	Slaton
Glen Bradley Payne	Zoology	Lubbock
Charles V. Peach	Government	Bovina
Brode Milton Puckett	Journalism	Post
Walter Eugene Rainwater—with Honors	Journalism	Vernon
Virginia Toole Reed—with Honors	English	Midland
Rose Jean Rodgers	Speech	Post
John Blackwell Rountree, Jr.	Zoology	Lubbock
Mary Elizabeth Ruble	History	Lott
Georgia Ann Seale	English	Lubbock
Norah Juanita Sentell	English	Snyder
Grady Shytles, Jr.	Chemistry	Snyder
Evelyn Hudman Smith	Speech	Lubbock
Garth Bert Thomas	Government	Post
Mary Elizabeth Titus	Speech	Pecos
Mary Elizabeth Tomlinson	Journalism	Slaton
Gwendolyn Tosh	English	Lubbock
Vivienne Ferrelene Tucker—with High Honors	English	Lubbock
John Paul Vinyard	Chemistry	Turkey
Jack Shannon Wells	Education	Wellington
Nell Marie Wiley—with Honors	English	Lubbock
Bryan John Williams	Government	Post
Commie Estel Williams	History	Farwell
Ina Frances Wilson	English	Lubbock
John Wesley Wilson, Jr.	Journalism	Wink
Ozora Frances Young	Spanish	Levelland

Bachelor of Business Administration

Ella Daurene Adamson	Post
Julia Mae Albin	Spur
Carlos Paul Alexander	Lamesa
Gordon Leight Allen	Lubbock
James G. Baker	Lubbock
Talbert O. Bennett	Lubbock
John E. Blackwell	Vernon
Margaret Boone	Seymour
Ned J. Bradley	Lubbock
Helen Elizabeth Brown	Lubbock
Sidney Warren Brown	Lubbock
Pauline Marie Buchenau	Tulia
Richard Rogers Burwell—with Honors	Amarillo
Blanton Fayette Cogburn—with Honors	Lubbock
Jimie Fay Compton—with Honors	Fort Worth
George H. Conklin—with Honors	Hereford
Dorothy Jeanette Day	Claude
Coy W. Dean	Anson
Donald Bruce Doherty	Lubbock
Robert Newton Dowell	Lubbock
Charles Marion Edwards	Anson
James U. Ellis	Greenville
John William Finnell	Holliday
Lillie Marie Fuchs	Abernathy
John Lowell Gillispie	Morse
Floyd Wilson Godfrey	Gladewater
Nina Mae Goodson	Darrouzett
Mary Nelle Gullledge	Lubbock
Henry Loros Gunter	Conway
Ralph Nabors Hooks	Abilene
Frances Josephine Jarratt	Lubbock
Milton Edwards Johnston	Odessa
Clarence Raymond Jones	Lamesa
Clark Edwin Jones	Lubbock
Peggy Jane Leary	Estelline
William Henry Lemons, Jr.	Sanderson

Elray Lewis	Brownfield
Margaret Louise Looman—with Honors	Brownfield
Mary McElyea	Slaton
Geraldine Farrar McFarland	Friona
Numan Hugh McFarland	Lubbock
Morian Blaine McManigal, Jr.	Happy
Grace Lee Mahoney	Shallowater
James Elwyn Marshall	Whitesboro
Ruby Faye Meredith	Lubbock
Nita Messick	Wellington
Doris Elaine Minor	Slaton
Delliah Gail Padgett	Levelland
Consuelo Maurine Patton	Clovis, New Mexico
Rilla Catherine Payne—with Honors	Colorado City
Robert L. Pendleton	Stratford
Robert Percival	Lawton, Oklahoma
Troy Newton Pickens	Slaton
Helen Gladys Pieratt	Crosbyton
John Rudolph Portele	Marlin
Howard A. Price	Lubbock
Helen Geraldine Reece	Lorenzo
Marion Rogers	Lubbock
Eric Marlon Rushing	Farwell
Henry Wayne Smith	Springtown
Marjorie Isabel Smith	Post
William James Spikes	Lubbock
Julia Carolyn Thomas	Post
Asher J. Thompson	Lubbock
Betty Jo Watson	Ralls
H. A. Watson, Jr.	Lubbock
Gorman Taylor Webb	Abernathy
Clark Johnson Wicks	Clovis, New Mexico
Dorothy Harris Willett	Matador
Minnie Will Wootton Williams	Post
Percy Allen Williams	Lubbock
Katherine Elaine Wilson	Tulla
Quentin Wright	Paris

Bachelor of Science

Enna Alberta Barnett—with High Honors	Chemistry	Lubbock
Flora Mayfield Betts	Zoology	Waxahachie
Roy Louis Eubank	Zoology	Truscott
Francis Lee Farr	Geology	Hermleigh
Joe Reeder Foote—with High Honors	Mathematics	Roscoe
James Henry Foster	Geology	Fort Smith, Arkansas
Kenneth Work Germond	Geology	Dallas
John Walter Harp	Geology	Abernathy
Charles Wilson Hicks	Geology	Colorado City
Travis Edison Hicks	Geology	Corpus Christi
William Eugene Lyle, Jr.	Geology	Lubbock
Schacht Victor McCollum	Geology	Texon
Mary Lou McCutchen	Zoology	Robert Lee
Jack Pershing Meyers	Geology	San Angelo
Jacques Grady O'Rear—with Honors	Chemistry	Lorenzo
Oscar Jack Snow—with Honors	Physics	Lubbock
Bachelor of Science in Education		
Ameritus Burroughs Ansley	Zoology	Lubbock
Ina Marie Bacon	Public School Music	Lubbock
George Marion Boswell, Jr.	Journalism	Coahoma
Stella Gibson Bowman	Primary Education	Lorenzo
Durward Boyd	Band Music	Cisco
Marshall Earl Brown	History	Troup
Bruce C. Browning	History	Quitaque
Thelma Florence Carter	Primary Education	Darrouzett
Lucille Cox	Physical Education	Morton
Edith Louise Cumble	English	Roby
Jewell Davis	Physical Education	Lubbock
Bessie Denton	Art	Lubbock
John Robert Dickason	Band Music	Wink
Romayne Dodson	Primary Education	Chillicothe
Eva Lucille Douthitt	Public School Music	Tahoka
Eula M. Embry	Physical Education	Abernathy
Mildred Evelyn Fouts	Primary Education	Rule
Marlynn Fry	Speech	Floydada
Agnes Pauline Greer	Primary Education	Lubbock
Gladys Dorothy Hall	Public School Music	Lubbock
Myrtle Irene Hawthorne	Primary Education	Post
Reba Alice Hill	Physical Education	Morton
Mary Louise Inkman	Speech	Big Spring
Gwynne William Line	Journalism	O'Donnell
Reuben Edward Martin, Jr.	Band Music	Memphis
Delia Ethel Montgomery	English	Kress
Helen Neal	Physical Education	Lubbock

Erma Aleene Nichols	Elementary Education	Vernon
Sibyl Anne Pirtle	English	Tahoka
Analara Greer Power	Physical Education	Lubbock
Herschel R. Ramsey	Physical Education	Chillicothe
Reuby Spurlock Rhodes	Primary Education	Lubbock
Essa Lee Roberts	Primary Education	Rotan
Lindard Bauman Roper	Physical Education	Bullard
Bernice Rose	Physical Education	Ropesville
Ethel Berniece Smith	Elementary Education	Baileyboro
Ruth Elna Spruill	Public School Music	Lamesa
Ann Louise Sweatman	Public School Music	Pampa
Lillian Janice Thompson	History	Plainview
Joseph Hoyt Waldrep	History	Slaton
Alice Burney Warren	Primary Education	Shallowater
Essie B. Waters	Physical Education	Abernathy
Imogene Rose Webster	Public School Music	Lubbock
Doris Virginia Wharton	Business Administration	Lubbock
Jean Willman	Physical Education	Muleshoe
Hattie Emma Yates	Business Administration	Lamesa

DIVISION OF GRADUATE STUDIES

Master of Arts

- Rommie Boyd Bumpass, Lubbock, B. A., Howard Payne College, 1918, English.
 Thesis: "Some Literary Treatments of a Nineteenth Century Cause Celebre."
 James Walter Forbis, Whitesboro, B. A., Texas Technological College, 1938, Government.
 Thesis: "Party Attitudes and American Foreign Policy from 1840 to 1860."
 Frances Mayhugh Holden, Lubbock, B. A., Texas Technological College, 1936, History.
 Thesis: "The Development of the Baker-Poston-Hemphill-Wells Network of Stores in West Texas."
 Joyce Johnson, Eastland, B. A., Texas Technological College, 1931, B. S., T. S. C. W., 1932, History.
 Thesis: "History of Allen Brothers Post, American Legion, Number 148, Lubbock, Texas."
 J. Merrill Kayser, Weatherford, B. A., Texas Technological College, 1936, Anthropology.
 Thesis: "A Further Study of Arrowhead Ruin."
 Xezvus Keithley, Sudan, B. A. Texas Technological College, 1939, English.
 Thesis: "Volume III of the Lockhart-Croker Correspondence."
 Chester Welty Wright, Shallowater, B. A., Texas Technological College, 1938, Anthropology.
 Thesis: "The Type Distribution and Occurrence of Flint Gravers in Texas."

Master of Science

- Lester Alfred Coon, Lubbock, B. S., Texas Technological College, 1938, Geology.
 Thesis: "Sedimentation of the Upper Salt Series of the Delaware Basin—Texas and New Mexico."
 Roxanna Ruth Ford, Lubbock, B. S., Texas Technological College, 1930, Home Economics Education.
 Thesis: "A Statistical Study of Psychological Scores and Freshman Marks in the Division of Home Economics, Texas Technological College, 1935-1939."
 Agnes Abernathy Hicks, Lubbock, B. S., Texas Technological College, 1935, Home Economics Education.
 Thesis: "A Survey of the Sewing Practices of the Non-gainfully Employed, Married Graduates, Division of Home Economics, Texas Technological College."
 Flora Lena Lovelace, Lubbock, B. A. Daniel Baker College, 1935, Home Economics Education.
 Thesis: "A Survey of Conditions and Needs in Child Development of Texas Technological College Graduates Teaching Homemaking in High Schools."
 Clarence Edmund Rannefeld, Roscoe, B. S., Texas Technological College, 1938, Chemical Engineering.
 Thesis: "A Brief Resume of the Applications of Spectrography in Science and Industry."
 John Wight Sheehan, Hermleigh, B. S., Texas Technological College, 1938, Chemical Engineering.
 Thesis: "Spectrographic Methods as Applied to the Analysis of Oil Well Cuttings."
 Wichita F. Sheldon, Electra, B. S., Texas Technological College, 1939, Geology.
 Thesis: "Heavy Mineral Study of Some of the Sands of the K.M.A. Oil Field, Wichita and Archer Counties, Texas."

Master of Business Administration

- Martin Sylvester Reese, Tahoka, B. A., Texas Technological College, 1938, Industrial Management.
 Thesis: "An Analysis of Some Cost Accounting Methods Employed by Commercial Printing Plants."

Master of Education

- Naomi Lee Robnett, Lubbock, B. S., E. T. S. T. C., 1931, Education.
 Thesis: "Effects of Courses in General Mathematics as Offered by Lubbock High School."
 B. T. Rucker, Shallowater, B. S., W. T. S. T. C., 1936, Education.
 Thesis: "Survey of Wheeler County Schools and Proposed Reorganization."
 Ralph Gordon Thompson, Lubbock, W. T. S. T. C., 1930, Education.
 Thesis: "Semester Credit Hour Cost, Texas Technological College, 1932-1938."

HONORARY DEGREES

Doctor of Laws

John Augustus Hulen
 Ernest Othmer Thompson

John William Carpenter
 Clifford Bartlett Jones

DEGREES CONFERRED 1939-40

August 23, 1940

DIVISION OF AGRICULTURE

Bachelor of Science in Agriculture

Edwin D. Allen	Animal Husbandry	Blum
Lyman H. Batton	Agricultural Education	Comanche
Abrey W. Bingham	Agricultural Education	Brady
Robert Louia Brown	Animal Husbandry	Fort Worth
Roland Edward DeFee	Dairy Manufactures	Lubbock
Allen Benson Henry	Animal Husbandry	Sterling City

DIVISION OF ENGINEERING

Bachelor of Architecture

L. V. Assiter	Floydada
Josephine Welmaker	Lubbock

Bachelor of Arts (Major: Commercial Art)

Golda Glynn Anderson—with Honors	Plainview
Evelyn Muriel Ellington	Bledsoe
Jack McDonald	Lubbock
John Daniel McNeill	Lubbock

Bachelor of Science in Chemical Engineering

William J. Doty	Lubbock
Melvin Alfred Nobles	Hawley
Irvin W. Sanders	Amarillo

Bachelor of Science in Civil Engineering

Clifton Norman Bellamy	Merkel
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Bachelor of Science in Electrical Engineering

W. Noel Bryant	Wheeler
Gex Bennett Coons	Texhoma, Oklahoma

Bachelor of Science in Industrial Engineering

John O. Miller	Meadville, Pennsylvania
Robert A. Smith, Jr.	Howe

Bachelor of Science in Mechanical Engineering

James C. Barry	Slaton
James Wilson Gaines	Bronte

Bachelor of Science in Petroleum Engineering, Geology Option

Jack Chambless McGuire	Lubbock
Erwin Polzner	Kansas City, Missouri

Bachelor of Science in Textile Engineering

Robert Lloyd Altman	Lubbock
Leon Neil Stewart	Dallas

DIVISION OF HOME ECONOMICS

Bachelor of Science in Home Economics

Bonnie Faye Cogburn	Clothing and Textiles	Lubbock
Earnestine Gary	Home Economics Education	Petersburg
La Merle Graves	Foods and Nutrition	Garrison
Helen E. Hanshu	Home Economics Education	Darrouzetti
Maude Latham Hooten	Home Economics Education	Woodson
Faula Mae Johnson	Clothing and Textiles	Lubbock
Vista Juanita Meyers	Home Economics Education	Lubbock
Annie Faye Miller	Home Economics Education	Morton
Louise Martha Ohlenbusch	Home Economics Education	Goldthwaite
Annie Evelyn Plummer	Home Economics Education	Hereford
Helen Margaret Priebe	Foods and Nutrition	Wink
Anna Pearl Puett	General Home Economics	Plainview
Winnolee Elizabeth Sharp	Home Economics Education	Vernon
Isabel Stuart	Home Economics Education	Strawn
Juanita Fay Thompson	General Home Economics	Farwell
Lucille Wright	Home Economics Education	Tahoka

DIVISION OF ARTS AND SCIENCES

Bachelor of Arts

Mozelle Gable Adams	Education	Lubbock
Johnnie Marvin Ammons	History	Sweetwater
Bruce H. Beard	Chemistry	Lubbock
Harriet Louise Boone	Botany	Seymour
Pickens Bowen	Government	Dallas
Lorene Fryar Calhoun	English	Matador
Dorothy Nell Carver	History	Bonham
Ranell Chaney	Speech	Littlefield
Mozelle Fay Cobb	English	Lubbock
Bernice Davies	English	Lubbock
Dora Baker Davis	Education	Dimmitt
Wilma May Dickerson	Government	Lubbock

John Wallace Fields	Chemistry	Shamrock
Anna Lee Fisher—with Honors	Chemistry	Petersburg
Kathryn Ann Foster	Spanish	Kermitt
Johnnie Lou Fulford	Speech	O'Donnell
Mary Ruth Calhoun Gooch	Education	Chillicothe
Winnie Faye Gressett	Education	Westbrook
Lee Edwyn Hale	Chemistry	Lubbock
Albert Zadock Hays, Jr.	English	Wellington
Frank Jackson	History	El Paso
Joyce Jones	Journalism	Bagwell
Mark Edward Jones, Jr.	Government	Morton
Robbie Panell Jones	Education	Knox City
Ella Norene Moreman Jordan	English	Post
Dorris Vanice Kirk	Speech	Spearmen
Iris B. Lovell	Education	Dickens
Willard Elizey McDaniel	Education	Amarillo
Geneva Martin	History	Florenzo
Lee Michie	Mathematics	Lubbock
Juanita Pauline Morley	Education	Quanah
Margie Collier Munn	Education	Lubbock
Eugene Francis Seale	Zoology	Lubbock
R. F. (John) Sides	Education	Lubbock
Ruby Neil Smith	History	Hot Springs, New Mexico
J. D. Snider	Zoology	Brownfield
Margret Russell Stuart	Biology	Lubbock
Frances Elizabeth Tariton	English	Sterley
Fulton Elliott Thomas, Jr.	Government	Lubbock
Pauline Faye Travis	Spanish	Dalhart
Geneva Jo Voss	Mathematics	Lubbock
William Walter Wallis	Mathematics	Post
Kermitt Darwin Watson	History	Clovis, New Mexico
Sammie Maxine Watson	English	Winters
Aubrey Maurice Weaver	Government	Hale Center
Margaret Yvonne Wood	English	Big Spring
Irene Maxwell Woods	Education	Lubbock
Rena Georgia Wright	English	Lubbock

Bachelor of Business Administration

Muriel Elaine Allen	Bellevue, New Mexico
William Alton Beard	Lubbock
Bobbie Louise Bland	Abilene
Clayton Haggard Clark	Frisco
David Hylan Coats	Seagraves
Elizabeth Ann Coleman—with High Honors	Lamesa
Ruby Dulaney	Lubbock
Edwin Lamar Forrest	Lamesa
Cas Anis Fowler	Silverton
Nonus Claude Francis	McKinney
Lanis D. Gross	Big Lake
Clarence Cecil Harper	Lubbock
Claude L. Hooker	Albany
Joseph Perry Kiker	Breckenridge
Kenneth Earl Koger	Shamrock
Fabian Gant Lemley	Crosbyton
J. V. Mills, Jr.	Dumas
James Fernando Ortiz	Lubbock
G. V. Pardue, Jr.	Lubbock
Jeff Ray	Belton
Jewel Gertrude Richter—with High Honors	Abernathy
Paul Neyron Sparkman	Rails
Dorothy Agnes Thornton	Farwell

Bachelor of Science

Winfred Thelma Black	Zoology	Comanche
Malcolm James Brenneman	Geology	Midland
James Miller Halsey	Geology	Plainview
Woodrow M. Powers	Geology	Lubbock
Roy Warren Sanders, Jr.	Mathematics	McCombs
Bryan Smith	Zoology	Lubbock
George Terrell Thomas	Geology	Lubbock

Bachelor of Science in Education

William Knox Amo	Physical Education	Wichita Falls
Kathryn Marie Atwell	Primary Education	Ballinger
Wava A. Banes	Band Music	Wink
Una Keeling Bell	Primary Education	Crosbyton
Carrie Teresa Bier	Public School Music	Plainview
Dessie Johnson Brown	Elementary Education	Lorenzo
Fred Bryant	History	O'Donnell
Harriet Roberts Cain	English	Hobbs, New Mexico
Novie Ernest Chant	Physical Education	Camp Wood
Myrtle Maurine Coleman	Primary Education	Lubbock
Frances Bledsoe Conley	Elementary Education	Lubbock

R. C. Crane	English	Lamesa
Lennis Criswell Craven	Primary Education	Lubbock
Beatrice Paul Cromer	Elementary Education	Tahoka
Inez Cook Cummings	History	Wellington
Logan Oliver Cummings	History	Wellington
Chloe Darden	Elementary Education	Lubbock
Ouida R'Minta Davis	Physical Education	South Bend
Ollibe Muse Graham	Primary Education	Plainview
Alma Fern Green	Physical Education	Brownfield
Willie Hampton	History	Olton
Mildred Walker Henderson	English	Wink
Ewell M. Lawrence	Government	Aspermont
Velma McManis	History	Tahoka
Georgia Belle Greer Martin	Primary Education	Lubbock
Thelma Alene Meyers	Elementary Education	Hobbs, New Mexico
Myra Marie Millard	Elementary Education	Childress
Eatha Mooty	Physical Education	Earth
Lewis Owen	History	Pep
Nelson Grey Patrick	Band Music	Donna
Janie Ruth Reavis	Elementary Education	O'Dannell
Robert Hall Sedwick	Mathematics	Coleman
Arvil Bascom Shaw	Mathematics	Weatherford
Mary Elizabeth Springer	Physical Education	Ropesville
Mary Stewart	Primary Education	Lubbock
Hamilton Still	Mathematics	O'Donnell
Velma Taylor	Primary Education	Ballinger
Vera Cordie Taylor	English	Ballinger
Mary Louise Walker	Primary Education	Fort Worth
Bennie Maddox Watson	Primary Education	Eldorado
Jerlene Wharton	Physical Education	Littlefield
Annie Love Wilson	English	San Angelo

DIVISION OF GRADUATE STUDIES

Master of Arts

- Ethel M. Bain, Lubbock, B. A., Texas Technological College, 1936, Education.
Thesis: "The Status of the Assistant to the County Superintendent in Texas."
- Vada Bain, Lubbock, B. A., Texas Technological College, 1937, English.
Thesis: "The Distribution of Short Story Writers over the United States."
- Wilbourn Eugene Benton, Cumby, B. A., Texas Technological College, 1939, Government.
Thesis: "Economic Bases for a Policy of Collective Neutrality for the Western Hemisphere."
- Louise Campbell Curtinger, Lubbock, A. B., Mary Hardin-Baylor, 1927, History.
Thesis: "Judge W. P. Ballinger and the Texas Constitution of 1876."
- Anna Belle Donaldson, Lubbock, B. A., Texas Technological College, 1934, Education.
Thesis: "Visual Aids for the Past Twenty-five Years in the Elementary Grades of Lubbock."
- Margaret Ruth Dunlop, Lubbock, B. A., Texas Technological College, 1933, English.
Thesis: "Nature in Browning As Seen in Dramatic Lyrics, Dramatic Romances, Men and Women, and Dramatis Personae."
- David Allison Edwards, Crosbyton, B. A., Texas Technological College, 1930, Education.
Thesis: "The Budgeting of Superintendents' Time in Small Independent Accredited Schools in Texas."
- Raymond K. Green, Tahoka, B. A., Daniel Baker College, 1934, History.
Thesis: "A History of the First Presbyterian Church of Brownwood, Texas."
- Mabel Julia Harris, O'Donnell, B. A., W. T. S. T. C., 1928, English.
Thesis: "William Butler Yeats: A Study in the Development of Poetic Style."
- Ray Heyward Hynds, Lubbock, B. A., Texas Technological College, 1937, English.
Thesis: "Methods in the Craftsmanship of Thomas Hardy."
- Faith Knapp, Lubbock, B. A., Texas Technological College, 1939, Spanish.
Thesis: "The Character of the Racionneur in the Drama of Benavente."
- Quannah B. Lewis, Lubbock, B. A., University of Oklahoma, 1931, English.
Thesis: "Volume II of the Lockhart-Crocker Correspondence."
- Lester C. Linn, Pasadena, B. S., N. T. S. T. C., 1928, Government.
Thesis: "Party Attitudes and American Foreign Policy, 1860-1880."
- W. Wilson Lott, Lubbock, B. A., Texas Technological College, 1938, English.
Thesis: "Volume I of the Lockhart-Crocker Correspondence."
- Preston Jones Marcom, Levelland, B. A., Texas Technological College, 1934, Education.
Thesis: "Economic Aids and Devices for Visualizing the Science Curriculum."
- Elmer J. Moore, B. A., Texas Technological College, 1930, Education.
Thesis: "A Study of Factors Attending Boys' Failure to Finish High School."
- Eunice Lucile Nelson, El Paso, B. S., University of Minnesota, 1934, Education.
Thesis: "Federal Participation in Education with Special Reference to Education in Texas."
- Charles Sterling Owens, Gallup, New Mexico, B. A., Hardin-Simmons University, 1930, Economics.
Thesis: "An Analysis of the Spending Habits of New Mexico Public School Teachers."

- Richard Wade Rees, Center Point, B. A., Southwestern University, 1928, Education.
Thesis: "A Statistical Analysis of the English Test Results of the 1938-39 Freshman Class of Texas Technological College."
- Lorid Glen Sharp, Lubbock, B. A., Texas Technological College, 1938, Chemistry.
Thesis: "The Extraction of Pentosans and Furfural from Cotton Burrs."
- Archie A. Sims, Tahoka, B. A., Texas Technological College, 1937, History.
Thesis: "The Gubernatorial Campaign of 1940."
- Cullen Tibbets, Plainview, B. A., Texas Technological College, 1939, Spanish.
Thesis: "The Theme of Vengeance in the Works of the Duque de Rivas."
- Joseph Edgar Webb, Slaton, B. A., Texas Technological College, 1935, Education.
Thesis: "The Management of Athletics in Class A High Schools of Texas."
- John Earl White, Dexter, New Mexico, B. A., New Mexico Normal University, 1934, Education.
Thesis: "A Survey of the Status of the Organization and Administration of School Bands in New Mexico."
- Floy Farrar Wilbanks, Lubbock, B. A., Texas Technological College, 1934, History.
Thesis: "The Life and Work of Dr. Bradford Knapp."
- Oran Orville Williams, Idalou, B. A., Texas Technological College, 1934, Government.
Thesis: "The Judicial Development of the Burden Doctrine (1922-1940): A Study of the Immunity of National Instrumentalities from State Taxation."
- J. D. Wilson, Paducah, B. A., Baylor University, 1935, Education.
Thesis: "A County Unit System of Education for Cottle County, Texas."
- Wilma Draper Zachary, Lubbock, B. A., Texas Technological College, 1939, Spanish.
Thesis: "Las mujeres discretas in the Novels of Juan Valera."

Master of Science

- John Henry Baumgardner, Wellington, B. S., Texas Technological College, 1939, Animal Husbandry.
Thesis: "Cottonseed Meal and Hulls in Rations for Fattening Yearling Steers."
- Neva Deen Bavousett, Lubbock, B. S., Texas Technological College, 1932, Foods and Nutrition.
Thesis: "A Study of the Influence of Season on the Basal Metabolism of Normal College Women."
- Laurence George Harmon, Lubbock, B. S., Kansas State College, 1936, Dairy Manufactures.
Thesis: "Limits of Error in the Use of the Vacuum Solids Test for Ice Cream Mix, Condensed and Evaporated Milk."
- Cleveland L. Littlepage, Rotan, B. S., Texas Technological College, 1936, Agricultural Education.
Thesis: "Range and Pasture Improvement Data for Teachers of Vocational Agriculture in Areas of West Texas."
- James Barron Litton, Lubbock, B. S., Texas Technological College, 1939, Chemical Engineering.
Thesis: "The Removal of Flourides from Public Water Supplies."
- Laverne McWhirter, Roby, B. S., Texas Technological College, 1937, Foods and Nutrition.
Thesis: "The Mineral Content of Some Vegetables Grown in Southern Areas."
- Charles Orvel Spence, Floydada, B. S., Texas Technological College, 1939, Agronomy.
Thesis: "Evaluation for Malt Production of Barley Varieties Produced on the Southern High Plains of Texas."

Master of Business Administration

- Sam Tilden Bryan, Ralls, B. S., Abilene Christian College, 1935, Business Administration.
Thesis: "Teaching Cost Survey of Thirty-eight West Texas High Schools."
- Robert Cross Case, Petersburg, B. B. A., Texas Technological College, 1937, Business Administration.
Thesis: "An Analysis of the Lubbock Retail Trade Area."

Master of Education

- Arvel Branscomb, Muleshoe, A. B., New Mexico Normal University, 1933, Education.
Thesis: "A Survey of Commercial Subjects Taught in the High Schools of New Mexico."
- Martel Prideaux Bryant, Fierro, New Mexico, B. S., Texas Technological College, 1934, Education.
Thesis: "Education in the CCC Camps of New Mexico."
- Paul Copeland Campbell, Mercedes, B. A., University of Arizona, 1938, Education.
Thesis: "A Practical Curriculum for the Latin American Elementary School."
- Oliver Theodore Jones, Sterling City, B. S., N. T. S. T. C., 1927, Education.
Thesis: "The Growth of the County Unit System of Sterling County, Texas."
- Walter Rogers Orr, Hereford, B. S., Texas Technological College, 1936, Education.
Thesis: "A Survey of High School Chemistry in Texas."
- Earl Richard Ponder, Ackerly, B. S., E. T. S. T. C., 1931, Education.
Thesis: "An Analysis of Educational Conditions in the Four Diverse Areas of Texas."
- Glyn Roe Taylor, Thornton, B. S., W. T. S. T. C., 1935, Education.
Thesis: "Status of Physics in the Public High Schools of Texas."

REGISTER OF STUDENTS

SUMMER SESSION, 1940

ABBREVIATIONS

A—Agriculture
B—Business Administration
E—Engineering
Ed—Education

G—General
HE—Home Economics
S—Science

Aaron, Abner—E	Rotan	Bayless, Lois—S	Kermit
Aaron, James—A	Rotan	Beard, Bruce—S	Lubbock
Abbott, Noble—A	Abilene	Beard, Earl—S	Tuscola
Adams, Frances—HE	Lakeview	Beard, Alton—B	Lubbock
Adams, I. N.—5Ed	Crane	Bearden, Naomi—G	Tokio
Adams, James—A	Tulia	Beasley, Lida—5Ed	Lubbock
Adams, Mrs. Mozelle—Ed	Lubbock	Beaty, Charles—E	Dallas
Agee, Parri Dee—HE	Stamford	Beaty, Ewing—E	Lubbock
Agnew, Mrs. E. S.—Ed	Ralls	Beaty, Anita—B	Lubbock
Agnew, Ewell S.—Ed	Ralls	Beck, Mrs. Imogene—Ed	Lubbock
Albin, Betty—G	Taft	Beckmeyer, Harold—B	Spargenberg
Allen, E. D.—A	Blum	Belcher, William—G	Lubbock
Allen, Elwanda—G	Snyder	Bell, Howard—E	Rankin
Allen, Howard—E	Lubbock	Bell, Laura—HE	Lubbock
Allen, Kenneth—A	Quail	Bell, Mrs. Una—Ed	Crosbyton
Allen, La Verne—S	Lubbock	Bellamy, Clifton—E	Merkel
Allen, Loretta—HE	Dublin	Bergan, Allard—E	Portales, N. M.
Allen, Muriel—B	Bellevue, N. M.	Berthelot, Paul—E	Amarillo
Allen, Wanda—HE	Plainview	Beyers, Willie—HE	Lakeview
Allmon, Charles—E	Plainview	Bible, Zula—5HE	Canyon
Allred, Lila—5HE	Lubbock	Bickham, John—S	Lubbock
Altman, Fred—S	Mexia	Bidwell, Barbara Ann—S	Lubbock
Altman, Robert—E	Lubbock	Bier, Carrie—G	Lubbock
Alverson, Allene—5G	Whitewright	Binford, Barbara—G	Wildorado
Alverson, Johnnie—5G	Lubbock	Bingham, Abrey—A	Calf Creek
Ammons, Dorothy—Ed	Roby	Bingham, Lona Lee—Ed	Wickett
Ammons, Johnnie—G	Sweetwater	Binkley, W. Brent—E	Fort Worth
Ammons, Ralph—G	Roby	Birdsong, Junior L.—E	Pittsburg
Anderson, Ernest—B	Lubbock	Birdwell, Ouida—HE	Snyder
Anderson, Glynn—E	Plainview	Birkman, Anne—HE	Lubbock
Anderson, Mattie—Ed	Hermleigh	Bisbee, James—B	Benjamin
Anderson, Ralph—5Ed	Wichita Falls	Bishop, A. C. Jr.—5Ed	Hermleigh
Anderson, Robert—E	Cisco	Bishop, Mrs. Carrie—HE	Sudan
Anderson, Walter—G	Sweetwater	Bishop, James—A	Ropesville
Armistead, Davis—5Ed	Sulphur Springs	Black, Charles—A	Barstow
Armstrong, Clifton—B	Lubbock	Black, S. J.—E	Pampa
Armstrong, Roy—5A	Rising Star	Black, Winfred—S	Comanche
Arthur, D. C.—5Ed	Plainview	Blackford, Bruce—A	Lockney
Asher, Margaret—HE	Lubbock	Blair, Eugene—E	Plainview
Ashley, Monterey—HE	Melrose, N. M.	Blair, George—5A	Lubbock
Atcheson, Lucille—G	Lubbock	Blair, Sibyl—HE	Lubbock
Ater, Reverdie—G	Ropesville	Blair, W. D. Jr.—B	Spur
Atkinson, Almarene—HE	Shamrock	Bland, Bobbie—E	Abilene
Atwell, Kathryn—Ed	Balling	Bledsoe, Balva—G	Anahuac
Aves, Charles—E	Houston	Bledsoe, Mrs. W. H.—G	Lubbock
Ayer, Robert—B	Lubbock	Bledsoe, Willis—G	Lubbock
Bailiff, Mrs. T. C.—Ed	Childress	Bley, Winston—B	Olton
Bain, Ethel—5Ed	Lubbock	Blount, Canon—5Ed	Lockney
Bain, Vada—5G	Lubbock	Blundell, Lee—G	Lubbock
Baker, Elva—5Ed	Abilene	Bobbitt, Sally—HE	Lockney
Baker, Mary Alice—G	Lubbock	Boenicke, Lilybud—5Ed	Brownwood
Baker, Troy—5G	Graford	Borgess, Nancy—Ed	West
Baldwin, Elizabeth—S	Lubbock	Boone, Harriet—S	Seymour
Balfanz, Ralph—E	Abilene	Boone, Mildred—5G	Lubbock
Ball, Billie—S	Stanton	Bost, George—B	Amarillo
Ballingier, Mrs. Josephine—5Ed	Lubbock	Bostick, Elizabeth—G	Stanton
Ballow, Dempsey—G	Levelland	Boston, Rosemary—G	Perryton
Banes, Wava—G	Wink	Bottlinger, Marvin—E	Ireland
Barber, Alva—E	Lubbock	Boucher, Mayo—G	McAdoo
Barber, Jack—E	Lubbock	Bowen, Pickens—E	Dallas
Bargley, Opal—B	Denver City	Bowers, Marcille—HE	Lehman
Barnard, Marie—G	Lubbock	Bowlin, James—B	O'Donnell
Barnett, Carl—E	Dallas	Bowlin, Leona—5G	Lubbock
Barnett, Mary—Ed	Lubbock	Bowling, Robert—5G	Marion, Ala.
Barrett, Jim—S	Lubbock	Bowman, Lurline—5Ed	Canyon
Barrier, Catherine—G	Seminole	Boyd, Martha—Ed	Frederick
Barrier, Olivia—HE	Seminole	Boyd, A. N.—5Ed	Ralls
Barron, Elmerine—HE	Lamesa	Boyd, Clyde—5Ed	Haskell
Barron, Ethel—Ed	Lamesa	Boyd, Mrs. Inez—Ed	Sudan
Barrett, Jenny—G	Post	Boyd, Mrs. Mabel—Ed	Ralls
Barton, Ernestine—G	Odessa	Boynton, Burline—5Ed	Lubbock
Baskin, Margaret—5Ed	Lubbock	Braden, Felix—5Ed	Beaumont
Bateman, Mrs. Jessie—5HE	Lubbock	Bradford, William—5Ed	Iowa Park
Bates, Mary Glen—HE	Roby	Bradley, Alma 5HE	Portales, N. M.
Batton, Flodell—G	Stinnett	Bradley, Charles—S	Fife
Batton, L. H.—A	Shallowater	Bradley, Tom Jr.—A	Fife
Baumgardner, Margaret—G	Wellington	Brakebill, Mrs. Hazel—Ed	Crosbyton
Baumgardner, John—5A	Wellington	Brady, Earl—5G	Eastland
Bavousett, Mrs. Neva—5HE	Lubbock	Bramlett, Ernest—5A	Stephensville
Bavousett, Oma—HE	Snyder	Bramlett, Mrs. E. C.—5Ed	Stephensville

Brandon, M. C.—5A	Plainview	Case, Frankie Mae—B	Petersburg
Brannen, Marguerite—HE	Littlefield	Case, Robert C.—B	Petersburg
Brannon, Hunter—G	Sundown	Casey, Dorothy—HE	Wolfforth
Brannon, Paul—5G	Grandfalls	Cass, D. L.—E	Post
Branscum, Arvel—5Ed	Muleshoe	Castle, David—E	Abilene
Brasher, Virgil—E	Mosheim	Castle, Lila—Ed	Knott
Bratton, Laurissa—HE	Rochelle	Cathcart, Orlic—A	Lubbock
Brenneman, Malcolm—S	Lubbock	Cathy, Luticia—G	Hobbs, N. M.
Brewer, Jim Bob—B	Memphis	Caveness, Sherrell—5G	Tahoka
Brister, Lowelle—S	Electra	Caviness, Jamie—A	Hurlwood
Britton, Vivian—B	Delwin	Cearley, Alma Faye—G	Lubbock
Brock, Lois—B	Eliasville	Cearley, Alvin—E	Lubbock
Brock, Ormie—Ed	Lubbock	Cearley, J. B.—5G	Lubbock
Brock, Verdie—Ed	Lubbock	Chamberlain, James—G	Rochester
Brooks, Manuel—A	Lubbock	Chamberlain, Mrs. Jewel—5HE	Goose Creek
Brown, Mrs. Bailey—Ed	Lorenzo	Chandler, John—B	Seymour
Brown, Ernest—S	House, N. M.	Chaney, Ranell—G	Littlefield
Brown, Franklin—S	Electra	Chaney, Winona—G	Littlefield
Brown, Helen Lucille—B	Lubbock	Chant, Novie—G	Barksdale
Brown, Jimmie—B	Antor	Chapman, Nancie—HE	Tucson, Ariz.
Brown, John K.—E	Abilene	Chappell, Byron—5G	Lubbock
Brown, Lucille—E	Paducah	Chastain, Maurice—5Ed	Los Fresnos
Brown, Nellie Lee—5Ed	Lubbock	Chatham, Ruth—5G	Plainview
Brown, Mrs. Pauline—5Ed	Floydada	Chauncey, Kathryn—B	Lubbock
Brown, Robert—A	Idalou	Cheek, J. Harold—S	Wink
Brownlee, Elmer—G	Fort Worth	Chenault, Vivian—G	Snyder
Brummett, Virginia—5G	Brownfield	Cheery, Betty—G	Lubbock
Bryan, Carrie—G	Lubbock	Cherry, W. O.—5Ed	Bovina
Bryan, Mrs. Dorothy—5G	Littlefield	Chiles, Doyle—Ed	O'Donnell
Bryan, Mrs. J. Neuel—5Ed	Lubbock	Chiple, Jack W.—5S	Lubbock
Bryan, Joe Dan—B	Lubbock	Christian, Jim—A	Seagraves
Bryan, Ruth—HE	Lubbock	Christian, Mattie—E	Seagraves
Bryan, Sam T.—5B	Quitaque	Christian, Weldon—E	Big Spring
Bryant, Fred—G	O'Donnell	Christianson, L. C.—E	Lubbock
Bryant, Hazel—HE	Ralls	Claire, Virginia—B	Wichita Falls
Bryant, Mariel—5Ed	Pierro, N. M.	Clanahan, James R.—B	Amarillo
Bryant, William—N—E	Wheeler	Clanton, Mary Ellen—Ed	Valmoor
Buckner, Mrs. Kyle—5G	Brownfield	Clark, Betty—G	Canadian
Buckner, Oran—5G	Brownfield	Clark, Bill—G	Lubbock
Buckner, Ross A.—5Ed	Cotton Center	Clark, Clayton—B	Frisco
Bucy, Jane—G	Lubbock	Clark, Clifton W.—Ed	Anthony
Burford, Wayne—A	Lubbock	Clark, Eloise—5G	Lubbock
Burke, Betty—G	Lubbock	Clark, Margaret—5G	San Angelo
Burkett, Berniece—G	Henrietta	Clark, Mary Jeane—5G	Canadian
Burkholder, Amo Lee—B	Lubbock	Clarke, David—A	Sagerton
Burks, Dolores—G	Lubbock	Cleaman, Wardine—Ed	Lamesa
Burleson, Helen—G	Albany	Clements, Frank—E	Lubbock
Burleson, Mrs. J. M.—5G	Meadow	Cliburn, Eva—5G	Percilla
Burleson, Marcille—Ed	Meadow	Cline, Hester—5G	Sundown
Burnett, Bessie—HE	Dublin	Cloyd, Richard—B	Truscott
Burns, Joe K.—G	White Deer	Coats, David—B	Seagraves
Burson, Mabel—5G	Denton	Cobb, Beatrice—5Ed	Paducah
Burson, Mrs. Marie—Ed	Marfa	Cobb, Mozelle—G	Lubbock
Bussey, Laurene—5G	Lubbock	Cochran, Carl M.—G	Marlin
Butler, E. Glenwood—G	Grand Falls	Cocke, Thera—5B	Granger
Butler, Henri—HE	Lubbock	Coe, Mary Jo—G	Lubbock
Butts, Hubert—5G	McAdoo	Coe, Pauline—5G	Lubbock
Byars, Jesse—E	Afton	Coffman, Edwin—G	Littlefield
Byers, Johnnie L.—B	Lubbock	Cogburn, Eonnie Faye—HE	Lubbock
Byrd, Ardath—5G	Lubbock	Cogburn, Harold—S	Lubbock
Byrd, Willie—5A	Whitharral	Coleman, Ann—B	Lamesa
Cain, Harriet—Ed	Hobbs, N. M.	Coleman, Myrtle—Ed	Lubbock
Caldwell, J. R. Jr.—A	Farwell	Collier, Catherine—HE	Lubbock
Calhoun, Mrs. Lorene—G	Matador	Collings, J. F.—B	Wilson
Callahan, J. R.—E	Lubbock	Coltharp, Faye—Ed	Slaton
Callan, William—G	Lubbock	Compton, Jimmie—5B	Lubbock
Camp, Earl D.—S	Magazine, Ark.	Conley, Clarence—B	Robstown
Camp, Lanell—HE	Abilene	Conley, Frances—Ed	Lubbock
Camp, Shelley—G	Howe	Conley, Ray—E	Borger
Campbell, Edwin—E	Lubbock	Connell, Carl—A	Crowell
Campbell, John—A	McAdoo	Connell, J. W.—A	Crowell
Campbell, Paul—5Ed	Coolidge, Ariz.	Connolly, Ruth—G	Plainview
Cantrell, James—B	Plainview	Conner, Maxine—G	Slaton
Cargile, Victor L.—G	Lubbock	Conrad, J. C.—5G	Rotan
Carle, Peggy—5G	Lubbock	Conrad, Mrs. Letha—5G	Lubbock
Carle, Tom—E	Lubbock	Cook, Claudine—5G	Wilson
Carlisle, Gordon—S	Houston	Cook, Curtis—Ed	Post
Carnes, Rex—G	Whitharral	Cook, Kathryn—HE	Texhoma
Carpenter, T. R.—A	De Leon	Coons, Gex—E	Levelland
Carr, Buren—5Ed	Clovis, N. M.	Cooper, Albert—Ed	Levelland
Carr, Eula Mae—G	Aspermont	Cooper, Lois—Ed	Lubbock
Carroll, Mrs. Artie—Ed	Lubbock	Cooper, Margaret—5G	El Paso
Carroll, Cecil—A	Crowell	Cooper, Marian—Ed	Ropesville
Carroll, Edwin—A	Plainview	Copeland, Elizabeth—Ed	Petersburg
Carroll, Estelle—5G	Brownfield	Copeland, Floyd—5B	Petersburg
Carter, Lee B.—A	Darrouzett	Copeland, Gladys—Ed	Petersburg
Carter, Thelma—5Ed	Darrouzett	Copeland, Hazel—5G	Waco
Carter, Mrs. Velma—Ed	Tahoka	Copeland, Phyllis—Dean—5B	Lubbock
Carter, Virgel—A	Tahoka	Copeland, William A.—S	Lubbock
Carver, Dorothy—G	Bonham	Corley, Juanita—Ed	Wolfforth
		Costolow, Roy M.—S	Spur

Couch, Alfred-B	Aspermont	Duff, Naomi-HE	Slaton
Couchman, Sue Belle-HE	Brownfield	Duff, Ronald-E	Hillsboro
Cowan, Cleo-Ed	Lorenzo	Duggan, Elois-HE	Nacoma
Cox, Bill-E	Lubbock	Dulaney, Eugene-S	Lubbock
Cox, Clarence-G	Lubbock	Dulaney, Ruby-B	Lubbock
Cox, Elnora-HE	Ralls	Duncan, Roberta-B	Frederick, Okla.
Cox, Mrs. Era-Ed	Plainview	Duncan, Ruby-HE	Muleshoe
Cox, John-5G	Lubbock	Dunn, Beulah-5G	Lubbock
Cox, Jo Nell-HE	Lubbock	Dunn, Mrs. Floyd-5Ed	Lubbock
Coyne, Clarence-B	Lubbock	Dunn, Harvey L.-5G	Clovis, N. M.
Coyne, Lawrence-A	Lubbock	Dunshie, Mrs. Blanche-Ed	Beaumont
Crabtree, Mrs. Fred-Ed	Meadow	Duval, Mrs. George-Ed	Lubbock
Craig, Ruth-G	Lubbock	Dyer, Ronald-B	Mineral Wells
Crane, R. C.-G	Lubbock	Eades, Alma-HE	Lubbock
Crausbay, Clyde-G	Lamesa	Earthman, Floyd-G	Lubbock
Craven, Frank-S	Crosbyton	Easterwood, James-S	Lamesa
Craven, Joyce-E	Lubbock	Eaton, Nola Fern-B	Lubbock
Craven, Mrs. Lennis-Ed	Lubbock	Edgar, George V.-S	Whitharal
Crawford, Ethel-Ed	Lubbock	Edgar, Mrs. Grace-Ed	Littfield
Crawford, J. Ed-S	Lubbock	Edwards, Brownfield	Brownfield
Cromer, Mrs. Beatrice-Ed	Tahoka	Edwards, Louise-5Ed	O'Donnell
Crosby, Lois-HE	Wilson	Eichelberger, Mrs. Neely-Ed	Lubbock
Cross, Richard-5Ed	Plainview	Eiland, Maxine-S	Munday
Crow, O'Dell-E	Littfield	Elder, Harold-E	Cuero
Crowell, Frank-B	Wichita Falls	Ellington, Evelyn-E	Bledsoe
Crowell, Virginia-SHE	Crowell	Elliott, Beatrice-HE	Anton
Crump, Katie Bell-5G	Lubbock	Elliott, Don-A	Shallowater
Culbertson, Richard-A	Dalhart	Elliott, Virginia-HE	Spur
Cummings, Elma-5Ed	Ralls	Elliott, Violet-G	Cisco
Cummings, Mrs. Inez-Ed	Wellington	Elliott, Zelma-HE	Mobeetie
Cummings, John-5G	Byers	Ellis, Mamie-5Ed	Merkel
Cummings, Oneta Grace-5G	San Antonio	Ellison, Mary Grace-G	Lubbock
Cummings, Vivian-Ed	Ralls	Elms, Virgil Lee-5Ed	Alamreed
Cupp, Olen-A	Earth	Elrod, Roy H.-S	Muleshoe
Currey, Hillard Ernest-G	Wilson	Elston, Fred-S	Lubbock
Currey, Jake Lee-E	Wilson	Ely, William-5Ed	Monahans
Curry, Charles-5S	Haskell	Emery, Frances-G	Lubbock
Curtsinger, Mrs. Louise-5G	Dallas	Emmett, Lois-Ed	Roswell, N. M.
Daniel, Arthur-S	Mare	English, Mrs. Ance	Lubbock
Daniel, Olga Lee-5Ed	Lubbock	English, John-G	Premont
Daniell, Charles-S	Seminole	Eppes, Alvin, Jr.-B	Wilson
Darby, Carl-G	Meadow	Erwin, Elvis-A	Stanton
Darden, Chlois-Ed	Lubbock	Esckridge, Charles-5Ed	Lubbock
Dart, Esther-Ed	Sand	Essary, Andrew-A	Fort Worth
Davies, Bernice-G	Lubbock	Estil, Elizabeth-HE	Idalou
Davis, Dora-Ed	Dimmitt	Eubank, Geneva-B	Morton
Davis, Glenn-S	Lubbock	Eudy, Emogene-B	Morton
Davis, Ouida-G	South Bend	Evans, Curtis-5Ed	Lubbock
Davis, Preston-A	Hale Center	Evans, Jess C.-B	Mertzon
Dawkins, Ellis F.-5A	Lubbock	Evans, Ruth-5S	Portales, N. M.
Dawson, Charles-E	Lubbock	Evans, Thomas-B	Lubbock
Dawson, G. E. 5Ed	Lubbock	Evans, William P. 5Ed	Plainview
De Fee, Roland-A	Lubbock	Evans, Mrs. W. P.-Ed	Plainview
Defenbaugh, Margaret-G	Amarillo	Faith, R. L.-5A	Lazbuddie
Dement, Ernest-E	Plainview	Farr, Frances 5G	Sherman
Dempster, Louise-Ed	Hamilton	Farr, Robert A.-5Ed	Bovina
Denning, Joel-5Ed	Lubbock	Farrar, J. Bud-5G	Comanche
Dennison, B. H. Jr.-E	Lubbock	Farrar, Opal-G	Lubbock
Denton Dolores-G	Denison	Farrell, Twila-G	Muleshoe
Derr, Opal Jo-G	Ralls	Farrow, Jack-E	Hamlin
Dickason, Bob-5G	Wink	Faulkner, Merlin-5G	Goldthwaite
Dickerson, Wilma-G	Lubbock	Faulkner, Zona Beth-SHE	Childress
Dickson, James-A	Valley Mills	Faver, Ralph-A	Groveton
Dickson, Joe-E	Lubbock	Featherston, Billy-S	Petersburg
Diggs, Mary Eleanor-HE	Haskell	Felty, Mrs. Pearl-SHE	Lubbock
Dixon, Jim-A	Harwell	Ferguson, Raymond-5G	Tulia
Dobkins, Carmen-G	Lubbock	Fields, John W.-S	Shamrock
Dockery, Bennie-G	Call	Fisher, Anna Lee-S	Petersburg
Dockray, Willie Pearl-5G	Lubbock	Fisk, Martha-G	Amarillo
Dodson, Oscar-B	Chillicothe	Fite, Maurice-5Ed	Sundown
Donelson, Edward-G	Lubbock	Fitznugh, Lily-5Ed	Idalou
Donelson, Martha-B	Lubbock	Fleming, Kathleen-S	Rogers
Donelson, Sue-B	Lubbock	Fleming, Marjorie-SHE	Idalou
Donnell, Riley-E	Dallas	Fletcher, Mrs. Linnie Mae-5Ed	Levelland
Dooley, Mrs. Claude-5G	Bracketville	Fletcher, Mrs. Alma-5G	Plainview
Dorenfield, Lutetia-G	Amarillo	Flowers, Pauline-G	Jacksboro
Doss, Eleanor-HE	Bonham	Floyd, Ermael-G	McLean
Doss, Elizabeth-HE	Bonham	Floyd, Jane Ann-G	Lubbock
Douglas, Mrs. R. C.-5G	Lubbock	Foby, William-E	Gouldbusk
Douthit, William-B	Tahoka	Fondren, Cody-5B	Wink
Dowell, Erlene-HE	Quail	Foot, Dorothy-Ed	Brownfield
Dowell, Harlan-E	Royse City	Foot, Helen-HE	Petersburg
Dowell, Kenneth-E	Royse City	Forbis, Dorothy M.-G	Wellington
Doyle, Bernice-5G	Slaton	Ford Henry, B	Lockney
Drake, Phyllis-SHE	Kress	Ford, Mart-A	Ralls
Draper, Otha-5G	Shallowater	Forenand, Artie B.-A	Lubbock
Driskill, Samuel-S	Baird	Forrest, Edwin-B	Lamesa
Drumpleman, John-S	Midland	Forrest, Sallie-B	Plains
Droheller, Myra-G	Whiteface	Foster, B. C.-5S	Floydada
Duckworth, Donna-HE	Lubbock	Foster, Kathrynne-G	Brownfield

Foster, O. L., Jr.	Brownfield	Haddon, Joe Leon—G	Lubbock
Fowler, Anis—B	Silverton	Halle, Barte—B	Lubbock
Foy, J. A.—A	Petersburg	Halley, Buford—A	Red Springs
Franks, Vernene—5G	Wellington	Hair, Mrs. Louise—G	Big Spring
Frey, Pauline—HE	Comanche	Halbert, Kenneth—A	Foard City
Frey, Wayne—A	Fort Worth	Hale, Lois—5G	Commerce
Fry, Polly—G	Post	Haley, Harold—B	San Angelo
Frye, Gertrude—5Ed	Killeen	Haley, Harold—5Ed	Stanton
Frye, Mrs. Grace—5G	Lubbock	Haley, Mrs. Virginia—5G	Stanton
Frye, Louise—G	Hereford	Hall, A. T.—S	Lubbock
Fuessel, Irene—HE	Eola	Hall, J. A., Jr.—E	Lubbock
Fugate, Martha—B	Lubbock	Hall, Virgie—5G	McLean
Fulford, Johnnie—G	Tahoka	Hall, Virginia—HE	Lubbock
Fulghum, Harold—S	Terrell	Hall, Wayne—E	Quitague
Fullaway, Richard—G	Los Angeles, Calif.	Hall, William—5A	Hale Center
Fulbright, Patsy—HE	Smithville	Halsey, James—S	Plainview
Fuller, Bill—E	Fort Worth	Hamblen, John—5S	Tahoka
Gaignat, Charles—E	Tahoka	Hamilton, Frances—B	San Angelo
Gaines, Jimmie—E	Lubbock	Hamilton, Mrs. Hal—Ed	Plainview
Gaines, Margaret—G	McKinney	Hamilton, Howell—E	Llano
Gaither, Mary E.—G	Fort Worth	Hamilton, June—G	Hearne
Gamblin, Geraldine—HE	Floydada	Hamilton, Mrs. Marjorie—Ed	Lubbock
Gandy, George—A	Kelton	Hammit, E. L.—5Ed	Quail
Gannaway, Bill W.—A	Abilene	Hampton, Willie—Ed	Olton
Gardner, Walter—A	Ropesville	Hams, Harold—5G	Midland
Garrett, Marian—HE	Reagan	Hancock, Dee—Ed	Lubbock
Gary, Ernestene—HE	Petersburg	Hancock, E. E.—5Ed	Rails
Gary, Jessie—5Ed	O'Donnell	Hancock, Mrs. Laverne—Ed	Lubbock
Gathing, Emma—HE	Roscoe	Hancock, W. E.—5Ed	Chillicothe
Gause, Eugene—E	Lubbock	Hanksin, Mildred—HE	Lubbock
Gee, Wilma—5Ed	Lubbock	Hanshu, Helen—HE	Darrouzett
Geeslin, Von Dean—HE	Goldthwaite	Harbin, J. E.—A	Levelland
George, Jerome—S	Lubbock	Harbin, Joe—A	Levelland
George, Leland—S	Lubbock	Hard, Graham—5HE	Shallowater
George, William—E	Roby	Harding, Guy—A	Byers
Geron, A. J.—A	Littlefield	Hardy, Mary—G	Childress
Ghetian, Myron—5Ed	Lubbock	Hargrave, L. M.—5A	Wolforth
Gibson, Elaine—G	Lubbock	Hargrave, Ruth—5HE	Wolforth
Gibson, Joe A.—5Ed	Childress	Harmon, Katherine—HE	Lubbock
Gibson, Robert—A	Lubbock	Harmon, Laurence—5A	Lubbock
Gikas, Gus—E	Borger	Harmon, Phillip—Ed	Lubbock
Gilbreath, Owen—G	Rails	Harmonson, Peter—E	Big Spring
Gilley, Mrs. Evelyn—5Ed	Lubbock	Harper, Clarence—B	Lubbock
Gilliland, Dean—A	Sweetwater	Harper, Mrs. Dimple—5Ed	Lubbock
Glass, Eppright—B	Lubbock	Harper, Elizabeth—E	Lubbock
Glass, Thomas—E	Sweetwater	Harper, Enos—5Ed	Lubbock
Goddard, Mary Jane—Ed	O'Donnell	Harper, H. C.—A	Swearingen
Golston, Mildred—Ed	Goodlett	Harrell, Bessie Irene—Ed	Patricia
Gomez, Luis—Ed	Lubbock	Harrell, Fleda—G	Eastland
Gooch, Claude—G	Chillicothe	Harris, Charles—5Ed	Garland
Gooch, Mrs. Mary—Ed	Chillicothe	Harris, Fanibeth—G	Lubbock
Goodwine, Floy—5Ed	Frona	Harris, Marguerite—B	Lubbock
Gordon, Crayton—G	Lubbock	Harris, Marian—G	Farmersville
Gordon, Mary Lou—G	Slaton	Harris, Richard—B	Rails
Gordon, W. Harold—5Ed	Amarillo	Harrison, Verell—S	Booker
Cowdy, Mrs. James—Ed	Archer City	Harrod, Mrs. Beth—5G	Lubbock
Gowen, Arlee C.—G	Lamesa	Hart, Mrs. Carrie—5Ed	Rockwood
Grace, Doris—G	Pharr	Harvel, Hoyt—A	Hale Center
Gracey, Marie—Ed	Brownfield	Harvel, R. H.—A	Hale Center
Graham, Homer—G	Sweetwater	Harvey, Marvin—5Ed	Lubbock
Graham, James—S	Sweetwater	Hastings, Roy—A	Hereford
Graham, Joe—E	Spur	Hatcher, Mrs. Billy—5G	Lubbock
Graham, Lehmer—G	Lubbock	Hatcher, Billy—G	Lubbock
Graham, Ollibe—Ed	Plainview	Hatcher, Mrs. Connie—Ed	Morton
Graham, Mrs. Trixie—Ed	Hylton	Hatcher, Loyd M.—B	Bellevue
Graves, Betty—HE	Sweetwater	Hatcher, Nolan—5G	Texarkana
Graves, La Merle—HE	Garrison	Hatchett, Don—S	Lubbock
Gray, Noma—G	Washington, D. C.	Havis, Ralph—A	Lubbock
Graydon, Frank—B	Lubbock	Hawkins, Welton—G	Monahans
Green, Alma Fern—G	Brownfield	Haynes, Hope—5G	Tahoka
Green, Mrs. Dick—5G	Lubbock	Haynes, Mrs. S. B.—S	Lubbock
Green, Ethel—5HE	Lubbock	Hays, Mrs. Adie—Ed	Lubbock
Green, Lola Beth—5G	Lubbock	Hays, A. Z. Jr.—G	Wellington
Green, Lorene—HE	Bridgeport	Hays, Mrs. A. Z. Jr.—G	Wellington
Green, Raymond—5G	Tahoka	Hays, B. M.—5A	Lubbock
Greenie, L. C.—B	Big Spring	Hays, Ethel Lynn—HE	Snyder
Greer, Reagan—5E	Lubbock	Hays, Gerald—E	Lubbock
Gresham, Frankie—HE	Newlin	Hays, James—E	Lubbock
Gressett, Winnie—Ed	Westbrook	Hazel, Sybal—5Ed	Spur
Griffin, Henry—E	Galveston	Head, Ardath—G	Lubbock
Griffin, Louis—G	Shamrock	Head, Mildred—G	Lubbock
Griffis, Ruth—Ed	Lubbock	Headstream, W. Ralph—S	Roby
Griffith, Ruth—5Ed	Maypearl	Henderson, Allie—HE	Farwell
Grigg, Almada—Ed	Wellman	Henderson, Charlie—E	Dallas
Griggs, C. J.—E	Lubbock	Hearn, Q. L.—E	Hart
Grimes, Dale—5Ed	Edinburg	Heath, Norman H. Jr.—5G	Lubbock
Grissom, Minnie—HE	Littlefield	Heathington, Foy—5G	Hale Center
Groves, Elton—A	Benjamin	Heggen, Bernice—G	Abernathy
Hackler, Mrs. E. C.—5HE	Abernathy	Heller, Raymond—E	Happy
Hackney, Mrs. B. G.—Ed	Brownfield	Hellinghausen, Betty—HE	Breckenridge
		Hemphill, Floyd—5Ed	Littlefield
		Hemphill, Henry—E	Rankin

Henderson, Bryan-5Ed	Hamilton	Ivy, La Veda-Ed	Lueders
Henderson, Mrs. Bryan-G	Wink	Ivy, Merle S.-A	Lueders
Hendrick, Ross-E	Hart	Jackson, Bertell-B	Lubbock
Henry, Allen-A	San Angelo	Jackson, Elbert-Ed	Amherst
Henry, B. Phyllis-G	Iraan	Jackson, Frank-G	El Paso
Henry, Gladys-5Ed	Ralls	Jackson, Oneta-HE	Alma
Hensley, Homer-B	Lubbock	Jackson, Pearl-Ed	Lubbock
Henson, Audentia-HE	Farwell	Jackson, Rex-G	Tahoka
Henson, Maggie-HE	Meadow	Jackson, Stella B.-5G	Lubbock
Herald, Rollin-G	Austin	Jackson, Vernon-G	Anton
Herbst, Joe E.-E	B v g r	Jacobs, Carol-G	Lamesa
Herod, Ida May-5Ed	Grapeland	Jacobs, Earl-G	Lamesa
Herod, Mildred-G	Snyder	Jacobs, Mrs. Vivian-5G	Loraine
Herrin, Alden-G	Anton	Jaggers, Mrs. Ella-Ed	Lubbock
Herron, Lewis-A	Archer City	Jaggers, Zack-A	Talco
Hervey, Johnny-E	Greenville	James, Bessie-5G	Carthage
Hess, Peggy-HE	Lubbock	James, Dorothy-S	Lubbock
Hester, Myrna-5G	Bovina	James, W. E. Jr.-S	Pampa
Hicks, J. Lawrence-5A	Earth	Jarratt, Curtis-5Ed	Lubbock
Hicks, T. B.-A	Snyder	Jarrett, Harriett-HE	Lubbock
Hieronimus, Billy-B	Temple	Jarrett, Robert-G	Temple
Hildreth, Wayne-A	Fairview, Okla.	Jasper, Walter-E	Grapevine
Hill, Anne-G	Dallas	Jay, Mrs. Gwindolen-5G	Abilene
Hill, Betty K-E	Lubbock	Jeffers, Louie-HE	Spur
Hill, Eldon-E	Lubbock	Jenkins, Mrs. J. C.-G	Slaton
Hill, Emma-5Ed	Lubbock	Jennings, Ruth-HE	Daulla
Hill, Jane-Ed	Dallas	Jet, Paul-5Ed	Pearsall
Hill, Katherine-5G	El Dorado	Johnson, Mrs. Blanche-Ed	Muleshoe
Hill, Lennor-5Ed	Wolforth	Johnson, Paula Mae-HE	Lubbock
Hill, Marvin-5Ed	Girard	Johnson, Garvice-G	Kirvin
Hill, Neil-HE	Carey	Johnson, Granville-B	Lubbock
Hill, Mrs. Patsy-G	Lubbock	Johnson, Jesse-A	Lubbock
Hill, Paul-E	Nocona	Johnson, Julia-G	Lubbock
Hinds, Jeanne-G	Fort Worth	Johnson, Minibel-5Ed	Lubbock
Hinds, Raymond-G	Tye	Johnson, Mrs. Nancy-5G	Lubbock
Hochstein, Geraldine-HE	Nazareth	Johnson, Naomi-Ed	Lubbock
Hodge, Betty-B	Denver City	Johnson, R. C.-B	Lubbock
Hodge, Lovelle-HE	Earth	Johnson, Zona-Ed	Bandera
Hodges, Billie-HE	Childress	Johnston, Herbert A.-5G	Hamlin
Hodges, Elton-S	Lubbock	Johnston, J. B.-G	Lubbock
Hodges, Frank-E	Lubbock	Johnston, Louie-G	Lubbock
Hodges, Orella-HE	Sterling City	Johnston, Madge-HE	Lubbock
Hoffman, Claude-A	Paint Rock	Johnston, Maurine-S	Crane
Hofues, Frank-B	Dallas	Johnston, Ralph-A	Floydada
Holbrook, Betty-Ed	Plainview	Johnston, Richard-S	Graham
Holden, Frances M.-5G	Lubbock	Johnston, Wayne-E	Lubbock
Holden, Harrah-E	Clyde	Joiner, Ormonde G.-5Ed	Balmorhea
Holden, Mary Edith-G	Clyde	Joiner, Mrs. Thelma-G	Balmorhea
Holder, Mrs. Naomi-Ed	Lamesa	Jones, Mrs. Elizabeth-5B	Flagstaff, Ariz.
Holderness, Claudine-5G	Carlsbad	Jones, E. R. Jr.-A	Hermleiph
Hollingsworth, Roy Dean-5Ed	Tatum, N. M.	Jones, Evelyn-5G	Lubbock
Holland, Ruth-HE	Lubbock	Jones, Everett-S	Lubbock
Holmes, T. H. Jr.-S	Ralls	Jones, Floyd-E	Paduach
Holt, Mildred-HE	Lubbock	Jones, F. Winford-A	Paduach
Holt, William-S	Slaton	Jones, Mrs. Ina-Ed	Lockney
Holton, Mrs. Josephine-5Ed	Dallas	Jones, Joni Lu-G	Stanton
Honea, Marion-5G	Cleburne	Jones, Joyce-G	Bagwell
Hood, Alma C.-G	Livingston	Jones, Mark E. Jr.-G	Morton
Hooker, Claude-B	Albany	Jones, Nancy Lou-5G	Lubbock
Hooten, Mrs. Grace-G	El Paso	Jones, Oliver-5Ed	Sterling City
Hooten, Mrs. Maude-HE	Throckmorton	Jones, Paul-B	Goree
Hoover, Charles Verne-A	Mt. Calm	Jones, Robbie-Ed	Knox City
Hopkins, Christine-HE	Byers	Jones, Van B.-A	Poolville
Hopping, Doris-5G	Lubbock	Jones, Weldon-A	McAdoo
Horn, Mrs. L. H. HE	Sudan	Jones, Wesley-5Ed	Ralls
Horne, Evatt-E	Cisco	Joosten, Virginia-S	Lubbock
Howell, Murray T.-5A	Lubbock	Jordan, Mrs. Ella N.-G	Lubbock
Howell, Sam Wade-E	Tahoka	Jordan, Jerry-G	Blackwell
Huchingson, I. R.-5Ed	Roscoe	Joyce, Mary-S	Colorado City
Huddleston, Geneva-HE	Abilene	Joyner, Victor-A	Spur
Huff, Dona-5G	Lubbock	Karr, Mrs. Marion-5G	Canadian
Huff, Olive-G	Lubbock	Keese, Maude-5Ed	Seagraves
Huffaker, Evva Faye-Ed	Lubbock	Keeter, L. Ruth-5G	Groom
Huffman, James-5A	Higgins	Keith, L. M. Jr.-S	Brownfield
Hughes, Irene-HE	Levelland	Keithley, Mrs. Naomi-Ed	Ballfield
Hughes, Margaret-Ed	Idalou	Kelley, Lydia-5B	Paduach
Hunt, John-5Ed	Claude	Kelly, Dorothy-G	Lubbock
Hunt, Walter-E	Crowell	Kelly, Jeannette-5Ed	Lubbock
Hunter, Emma-5G	Hobbs, N. M.	Kelly, Mamie-HE	Denison
Huntley, Mrs. Addie-Ed	Lubbock	Kelton, George-G	Madisonville
Hurlbut, Lanelle-G	Dimmitt	Kelton, Mrs. Norris-G	McCamey
Hutchings, Dapheene-G	Amherst	Kendall, Gene-S	Lubbock
Hutchinson, Samuel-5Ed	Carbon	Kendrick, Lowell-E	Lubbock
Hyatt, Cleatus-A	Carbon	Kendrick, Mary-G	Midland
Hyatt, Ima Jean-G	White Deer	Kendrick, Ruth-G	Lubbock
Hynds, Nat-5Ed	White Deer	Kennedy, Crysta-Ed	Putnam
Hynds, Ray-5G	Ralls	Kennedy, Virginia-HE	Rotan
Igo, Norman-G	Kempner	Kent, Lee-B	Perryton
Irvine, Norma Louise-Ed	Plainview	Kent, Mary-5Ed	Westbrook
Isbell, Bernetta-5G	Lueders	Key, Dwight-A	Megargel
Ivy, John M.-5Ed	Lueders	Key, Marjory-Ed	Lubbock

REGISTER OF STUDENTS

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Key, Norvell-5G	Ropesville	Loggins, Maurice-HE	Sweetwater
Keys, Arch-A	Plainview	Lokey, Jack-B	Lubbock
Kidd, William E-G	Mexia	Lomax, Bess-G	Dallas
Kidwell, Ruby-G	Lamesa	Lomax, Dorothy-5Ed	Lubbock
Kiker, Joseph-B	Breckenridge	London, Mrs. Bessie-Ed	Girard
Killian, Mrs. Bonnie-Ed	Colorado City	London, F. C.-A	Spert
Killin, Wendell-G	Lubbock	Long, Dan-HE	Ralls
Killough, Mary Theima-5Ed	Littlefield	Long, Hugh-5Ed	Vernon
Kilpatrick, Nellie-Ed	Littlefield	Long, Mary Paul-5G	Lubbock
Kimmel, Clark-G	Lubbock	Long, Maude-Ed	Ralls
King, Herbert-B	Albuquerque, N. M.	Longley, Jack-S	Lubbock
King, Raymond-5A	Quitauque	Lott, Woodrow W.-5G	Lubbock
King, Rosalie-HE	Bellevue, N. M.	Love, Mrs. Billie-G	Henderson
King, Rozelle-HE	San Angelo	Love, Jess M.-E	Henderson
King, W. A.-5A	Floydada	Love, Johnnie A.-5B	Bula
Kirby, Dahlia-5G	Lubbock	Love, Mrs. Malone-5G	Paris
Kirk, Doris-G	Spearman	Lovelace, Mrs. Flora-5HE	Lubbock
Kirkpatrick, Ben R.-E	Marysville	Lovelace, Jack-B	Lubbock
Kirkpatrick, Lucille-HE	Dimmitt	Lovell, Mrs. Irls-Ed	Dickens
Kirksey, Rebecca-Ed	Lorenzo	Lowry, Leonard-E	Plainview
Knowles, Lillian-5Ed	Ballinger	Loyd, Mrs. Grace-Ed	Olton
Koeninger, Leta Merle-B	O'Donnell	Loyd, Lucille-HE	Olton
Koger, Kenneth-B	Shamrock	Lucas, Lucille-5Ed	McAdoo
Koib, Doris-G	Lubbock	Lyman, Ben F. Jr.-G	Littlefield
Koib, Lourene-G	Rotan	Lytle, Helen-HE	Quanah
Kube, Ludwig-E	Farwell	McAdams, Mary-5HE	Lockney
Kuteman, Alard-S	Lubbock	McBride, Betty-HE	Lubbock
Kyle, Clyrene-G	Lubbock	McBride, John-E	Lamesa
Kyle, Lavonne-G	El Paso	McCain, Mrs. Marie-Ed	Longworth
Laws, Lois-HE	Brownsville	McCarley, Haskell-Ed	Lamesa
La Jeunesse, Richard-E	Lubbock	McCarty, Dora Nell-HE	Lubbock
Lam, Raybon-S	O'Donnell	McCarty, Leon-A	Lubbock
Lambert, A. C. Jr.-G	Lubbock	McCaskill, F. A. Jr.-A	Lubbock
Lamm, J. T.-G	Lubbock	McCauley, Georgine-Ed	Lubbock
Land, Elizabeth-G	Lamesa	McClain, Hope-5HE	Lubbock
Landis, Jimmie-G	Lubbock	McClure, Martha Lou-Ed	Crosbyton
Lane, Alma Viola-Ed	Lake Arthur, N. M.	McClure, Wynell-HE	Spur
Lane, Mrs. G. W.-Ed	Cee Vee	McCoin, Mrs. Elie Mae-Ed	Trent
Lane, Margaret-Ed	Lake Arthur, N. M.	McCoin, W. B.-G	Trent
Lane, Martha-G	Sudan	McCook, Dale-5Ed	Lubbock
Lane, Otho-S	Lubbock	McCook, Elmo-5Ed	Ozona
Laney, John-B	Lubbock	McCorkle, Eula-5Ed	Lubbock
Langford, Mrs. Johnnye-5G	Lubbock	McCown, Robert L.-5G	Crane
Langham, Joe Dell-G	Overton	McCoy, Floyd-G	Winters
Lankford, Anita-G	Idalou	McCoy, R. K.-5A	Lockney
Lansford, Frances-5HE	Lubbock	McCrummen, Margaret-S	Lubbock
La Roe, Shirley-A	Happy	McDaniel, Harold-E	Lubbock
La Roe, Travis-E	Tulia	McDaniel, Jim-B	Lubbock
Lassiter, Bryant-G	Lubbock	McDavid, Earle-B	Amarillo
Latham, Mrs. Bernice-Ed	Levelland	McDonald, Archie-G	McAdoo
Lattimer, Gracie-5G	Higgins	McDonald, Jack-E	Lubbock
Lattimore, Glenn-S	Lubbock	McDonald, Jeanne-G	Clarendon
Laubhan, Milton-B	Lubbock	McDonald, Marshall-E	McAdoo
Laughter, Gola Grace-HE	Lubbock	McDonald, O. V.-G	Tulia
Laurence, Clayton-A	Tahoka	McDonald, Robert-A	McAdoo
Lawrence, Ewell-Ed	Aspermont	McElmurray, George-A	Trent
Lawson, Richard-E	Dallas	McEntire, L'Dean-Ed	Sterling City
Lea, R. E. Jr.-S	Plainview	McEwen, J. B.-E	Hillsboro
Lee, Bernice-Ed	Littlefield	McGlothlin, Iola Lee-5Ed	Cotton Center
Lee, Len-S	Silverton	McGough, Bill-B	Hamlin
Lee, Mrs. Mary Josephine-HE	Brownfield	McGrath, Dorothy-Ed	Wichita Falls
Lee, Monte Ray-E	Cleburne	McGregor, Joe-A	Lubbock
Leftwich, Jimmie-B	Lubbock	McGregor, O'Dell-G	Knott
Legg, Peyton-A	Ralls	McGuire, Gerald-5Ed	Wink
Lemley, Fabian-B	Crosbyton	McKelvey, Mrs. Mildred-5G	Lubbock
Lemmon, Eugene-S	Amarillo	McKinney, Emma Lou-5Ed	Floydada
Lemmons, Louis-E	Panhandle	McKinney, Faye-G	Prairie Hill
Lemons, Mavis-HE	Loraine	McLeod, Doyle W.-G	Lubbock
Lemons, W. H.-5B	Sanderson	McManis, Alma Lee-G	Tahoka
Leon, Mildred-5G	Rotan	McManis, Velma-Ed	Tahoka
Leuchner, Mrs. Grace-5G	Lubbock	McMenamy, Ed-G	Lubbock
Levens, Billy-G	Lubbock	McMenamy, Fannie-B	Lubbock
Lewis, Donald-B	Plain	McMurray, Minnie Lee-5G	Slaton
Lewis, Quanah-5G	Lubbock	McNeill, John D.-E	Lubbock
Lewis, W. A.-E	Roaring Springs	McReynolds, Zoe-G	Muleshoe
Lieske, Bertha-5Ed	Sweetwater	McSpadden, Willard-E	Lamesa
Lieurance, Richard-S	Amarillo	McWhirter, Dale-5A	Pyron
Light, Ruth-Ed	Bula	McWhirter, Laverne-5HE	Rohy
Lilly, W. T.-E	Elbert	McWhorter, Alva-HE	Wolforth
Lindley, Evelyn-G	Littlefield	McWhorter, Garlan-A	Lubbock
Lindley, Maxine-HE	Graham	McWilliams, Mildred-B	Kermit
Lindsey, Woodson-G	Lubbock	Mackey, Clarice-HE	Meadow
Line, Gwyne-5Ed	O'Donnell	Mackey, Josephine-Ed	San Antonio
Link, Lois-G	Lubbock	Maddox, Robert-S	Tahoka
Linn, Lester-5G	Pasadena	Mader, J. C.-A	Poolville
Littton, James B.-5E	Lubbock	Maeker, Arnold-E	Wilson
Little, John N.-B	San Saba	Malcolm, Luther-G	Brownfield
Little, Oweta-G	Anton	Malcolm, Ona M.-B	Brownfield
Littlepage, Cleve-5A	Rotan	Mallard, Billy-E	Hillsboro
Locke, John Thomas-Ed	Miami	Malone, Madge-G	Lubbock
Lockhart, Charles-B	Lubbock	Mann, Bill Mack-G	Lubbock
Loflin, Ruth-HE	Ralls	Mara, Helen Faye-Ed	Decatur

Marcom, Preston—5Ed	Levelland	Morris, Quentin L.—E	Ridgeway
Marek, Frances—HE	Seymour	Morrison, Ed—S	Colorado City
Marshall, John—E	Lubbock	Morrison, Leona—5G	Commerca
Martin, Almon—5G	Rotan	Morton, Agness—Ed	Hamlin
Martin, Blanche—G	Jacksboro	Moss, Ennis—S	Lubbock
Martin, Mrs. Georgia—Ed	Lubbock	Mullin, Robert—S	Lubbock
Martin, Geneva—G	Lorenzo	Munn, Mrs. Margie—Ed	Lubbock
Martin, Howard—G	Garden City	Murphy, Thomas—E	Lubbock
Martin, Mrs. Ina—5G	Balmorhea	Murphy, Abe—5Ed	Memphis
Martin, Jay W.—S	Lubbock	Murray, Carl—E	Bennett
Martin, Lucille—G	Gould	Murray, Tom E.—A	Hobbs, N. M.
Martin, Mattie—5G	Lubbock	Musick, George—G	Lubbock
Martin, Richard Lee—B	Eastland	Myrick, Walter—E	Lubbock
Martin, T. K.—Ed	Loraine	Nabers, Mary Elizabeth—E	Pecos
Martin, Wanda—G	Lubbock	Nachlinger, Pete—E	Hermleigh
Mason, Marian Lee—Ed	Post	Nail, Eugene—E	Lubbock
Mast, John—E	Lubbock	Nail, Paul—S	Lubbock
Masten, Mrs. Lucille—5HE	Hale Center	Nance, Lois—G	Lubbock
Masten, Reese—5Ed	Hale Center	Neal, Connally—Ed	Justiceburg
Masters, Hardy—5G	Cheyenne, Okla.	Neeley, Koy—A	Temple
Mathis, Kary—5Ed	Lubbock	Neely, Lucille—HE	McAdoo
Matthews, Richard—E	Petersburg	Neff, Edward—E	Brownfield
Matthews, Mrs. Virlea—Ed	Lubbock	Nelson, Eunice—5Ed	Post
Mauley, W. C.—B	Blackwell	Nelson, Nathaniel—A	El Paso
Maxwell, Everett—5Ed	Lovington, N. M.	Nevins, James B.—5G	Clifton
Maxwell, Mrs. Faye—5HE	El Paso	Newman, Edith—Ed	Cone
May, Aline—G	Westbrook	Newman, Erna Mae—HE	Dickens
May, Beulah—HE	Iowa Park	Newsom, Reva—5G	Brownfield
Mayes, George—G	Laredo	Newton, Beth—G	Dougherty
Mayes, Mrs. Mary—Ed	Laredo	Nichols, Maxine—G	Sudan
Mayes, Mary Ann—G	Laredo	Nicholson, Robert—Ed	Fort Stockton
Mayfield, Mrs. Bernice—Ed	Spur	Nickell, Gene—G	Dallas
Mays, Page—Ed	Lubbock	Nislar, James—B	Lubbock
Meading, Mrs. Bessie—Ed	Slaton	Nivin, Billy—A	Roby
Meadows, Barkley—B	Cleburne	Nix, Brady—5Ed	Forsan
Mealer, Beatrice—Ed	Olton	Nixon, Wayne—E	Junction
Medley, Mrs. Hazel—5G	Santa Rosa, N. M.	Nobles, Melvin—E	Hawley
Medlin, Pauline—E	Bula	Nordyke, Hortense—Ed	Lubbock
Mendell, Herman—E	Houston	Nowlin, Carl—5A	Grenville, N. M.
Meredith, Stanley—S	Carbon	Nowlin, M. J.—5G	Taylor
Metcalfe, Mrs. Pearl—5Ed	Lubbock	Nowlin, Ray Hix—Ed	Crosbyton
Meyers, Juanita—HE	Lubbock	Oakley, Robert—S	Fort Worth
Meyers, Leanell—G	Lamesa	Oats, Elizabeth—G	Lubbock
Meyers, R. L. Jr.—5Ed	Jal, N. M.	O'Connor, Robert—S	Lubbock
Meyers, Thelma—Ed	Hobbs, N. M.	Offholter, Mrs. Nada—G	Memphis
Michie, Lee—G	Lubbock	Oglesby, Ben—G	Lubbock
Middleton, Mary Louise—5B	Lubbock	Ohlenbusch, Louise—HE	Goldthwaite
Miles, Mark—A	Dallas	Oliver, Elwanda—G	Lamesa
Millard, Myra Marie—Ed	Childress	Oliver, Marjorie—HE	San Saba
Miller, Annie Faye—HE	Morton	O'Neal, Emalu—G	Lubbock
Miller, Harriette—HE	Lubbock	Orr, Catherine—5B	Hillsboro
Miller, Mrs. John E.—G	Gatesville	Orr, Mrs. Rogers—Ed	Canadian
Miller, John O.—E	Lubbock	Orr, Rollin—5S	Hereford
Miller, Marjorie—G	Fabens	Ortiz, James—B	Lubbock
Miller, Nancy Ann—G	Lubbock	Oswalt, Maxwell—G	Dallas
Miller, Mrs. Pauline—B	Denver City	Overton, N. Margaret—G	Lubbock
Mills, Arthur—A	Sterling City	Overton, Ruth—G	Lubbock
Millsap, J. B.—Ed	Fairbanks	Owen, Lewis—Ed	Pep
Milton, Queen K.—5Ed	Arlington	Owens, Charles—5B	Gallup, N. M.
Ming, Francis—5Ed	Post	Pace, Clark—A	Bowie
Mitchell, Gladys—HE	Levelland	Padgett, Delilah—5Ed	Levelland
Mitchell, Orson—E	Lubbock	Pardue, G. V. Jr.—B	Lubbock
Mitchell, Rosalind—G	Roaring Springs	Parish, Jerry—B	Iowa Park
Mize, Rufus—G	Hermleigh	Parish, Leonard—A	Iowa Park
Montgomery, Marietta—5B	Tahoka	Parker, Mrs. Juanita—Ed	Big Lake
Montgomery, Woodrow—5G	Earth	Parks, Bill—B	Pampa
Moody, G. Ward—G	Odessa	Parks, Mary K.—E	Breckenridge
Moore, Ab Thomas—B	Lubbock	Parnell, Mrs. Jeannette—HE	Anson
Moore, Mrs. Bessie—Ed	Lubbock	Parnell, Martha—G	Lubbock
Moore, Darrel Day—G	Lubbock	Parramore, Pearl—HE	Lubbock
Moore, Ed—E	Fort Worth	Parris, E. H.—5G	Gilliland
Moore, Elmer—B	Lubbock	Parris, Ursula—5HE	Wilson
Moore, Elmer J.—5Ed	Olton	Partin, Charles—G	Rule
Moore, H. L.—E	Bonham	Partin, Mrs. Elsie—HE	Lubbock
Moore, Hazel—HE	McAdoo	Partin, J. W.—5G	Lubbock
Moore, Joyce—G	Carlton	Paschall, Clyde—A	Lubbock
Moore, Lucy—HE	Merkel	Patrick, N. G.—G	Donna
Moore, Sidney—E	Fort Worth	Patterson, Claire—5Ed	Snyder
Moorhead, Durward—B	Brownfield	Patterson, Clifton—5S	Lubbock
Moorhead, Jerry M.—Ed	Abernathy	Patterson, Harold—E	Big Spring
Mooty, Estha—G	Earth	Patterson, Ira—HE	Lubbock
Morgan, J. D.—S	Turnersville	Patterson, R. J.—5Ed	Winters
Morgan, J. P.—A	Vernon	Patterson, Truett—E	Merkel
Morgan, Nellia—5G	Spur	Patton, Bertha—5Ed	Lubbock
Morgan, Ray M.—S	Brownwood	Pattillo, Paul—5Ed	Lubbock
Morgan, Ruth—Ed	Norton	Patty, Evelyn—HE	Waco
Morley, Juanita—Ed	Quanah	Payne, Lucille—HE	San Augustine
Morris, James—E	Ridgeway	Payne, Lucy Mary—HE	San Augustine
Morris, Louis—A	Lamesa	Payne, Mary Jane—B	Lubbock
Morris, Mrs. Mary—G	Lamesa	Payne, Ruth Marie—HE	Lubbock
Morris, Mildred—5G	Greenville	Payton, Ralph—S	Slaton
Morris, Nanetta—HE	Clarksburg	Pearce, William—5G	Lubbock

Peavy, Doris-G	Slaton	Reed, Bevington-5G	Slaton
Pekham, Miriam-G	Amarillo	Reed, Mrs. Lottie-HE	Lubbock
Peden, Jack-5Ed	Lubbock	Reed, Zenoba C.-HE	Ralls
Peeples, Doris Faye-G	Lubbock	Rees, Richard-5Ed	Center Point
Pelham, Lucille-Ed	Rosebud	Reese, Mrs. Juanita-Ed	Plainview
Pender, Louie-E	Jal. N. M.	Reeve, Clio-Ed	Dallas
Pendleton, Noma-G	Wilson	Reeves, Randall-5A	Lubbock
Perkins, Billy-G	Winters	Reinhart, Arthur-E	Del Rio
Perkins, Troy-5G	Whiteflat	Reynolds, Helenore-5HE	Lubbock
Perry, Genevra-B	Lubbock	Reynolds, Jack-5Ed	Lueders
Perry, Lee Jr.-E	San Antonio	Reynolds, Mary Katherine-HE	Quanah
Perry, Susan-S	Lubbock	Reynolds, Paul-B	Petersburg
Pettigrew, Tom-A	Justiceburg	Rhodes, Imogene-Ed	San Angelo
Petty, Troy O.-5Ed	Levelland	Rhodes, Mrs. Reuby S.-5Ed	Lubbock
Phenning, Walter F.-S	Austin	Rhodes, Reuby Tom-HE	Lubbock
Pharr, Vernon-A	Brownfield	Rice, James Lee-A	McLean
Pherley, Mrs. Blanche-Ed	Lockney	Rice, Sarah Beth-Ed	Ropesville
Philbrick, George-5Ed	Lubbock	Rich, Fred-G	Lubbock
Phillips, H. D. Jr.-S	Lubbock	Richards, Ima Dora-5HE	Anton
Phillips, John-B	Dallas	Richeson, Ruth-5S	Lubbock
Phillips, Juanita-5G	Floydada	Richter, Gertrude-B	Abernathy
Pickard, Conway-5Ed	Leyelland	Riley, Alfred M.-5Ed	Fort Worth
Pickens, Evelyn-Ed	Spur	Ripley, Merilu-B	Lubbock
Pickett, Edgar Lee-G	Shallowater	Rister, Lois-5Ed	Ablene
Pierce, Ernest-G	Bledsoe	Ritter, L. A.-B	Sweetwater
Pierce, Joe Ed-G	Lubbock	Robbins, J. Lee-B	Littlefield
Pierce, Milton-A	Plainview	Roberts, Mrs. Claude-5G	Lubbock
Piercy, Wilburne-B	Lubbock	Roberts, Gerald-5Ed	Hobbs, N. M.
Pike, John-S	Lubbock	Roberts, Mrs. Ida Mae-HE	Jacksboro
Pipes, Wendel-B	Lubbock	Roberts, J. A.-E	Skellytown
Pittman, Violet-Ed	Floydada	Roberts, John-A	Boonsville
Pitts, Frances-HE	Amarillo	Roberts, Syclly J.-G	Lubbock
Pitts, James-E	Amarillo	Roberts, William J.-A	Memphis
Plummer, Evelyn-HE	Hereford	Robertson, C. Ernest-E	Lubbock
Polner, Erwin-E	Lubbock	Robertson, James H.-E	Aspermont
Polk, Louise-HE	Littlefield	Robertson, Melvin-E	Lubbock
Pool, Ed-E	Dallas	Robertson, Winston M.-B	Lorenzo
Poole, Charles-E	Plainview	Robinson, Edith-5G	Lubbock
Porter, Helen-Ed	Dumont	Robinson, Etta-5Ed	Lubbock
Poteet, Sybil-5G	Lubbock	Robinson, Helen-B	Lubbock
Potter, Nora-5G	Bynum	Robinson, M. H.-E	McAllen
Powell, C. A.-B	Memphis	Robnett, Hoyl-E-G	Lubbock
Powell, J. Otis-E	Nogales, Mex.	Robnett, Myrtle-5Ed	Lubbock
Powell, Laurence-S	Quanah	Roddy, Wesley-A	Denison
Powell, Mrs. Rose-G	Wellington	Rodgers, Rose Jean-5Ed	Post
Powers, Ted-A	Barksdale	Rogers, Ray-B	Allison
Powers, Woodrow-S	Lubbock	Rogers, Roy-A	Tulia
Prange, Edna-G	Cisco	Rogers, Thomas E.-B	Lubbock
Price, Lewis-A	Roby	Rolley, Hal-E	Joinerville
Price, Norma-S	Lubbock	Rose, Nuge-A	McAdoo
Price, Polly-G	Childress	Ross, Harold-G	Rush
Price, W. Howard-5G	Lubbock	Ross, Margaret-Ed	Lubbock
Price, Winona-HE	Estelline	Rowe, Edna-G	Brownfield
Priddy, John-G	Stanton	Rowland, Hugh-E	Lubbock
Prideaux, Tom Moore-G	Lubbock	Rowland, Keefe-5Ed	Vernon
Priebe, Frances-G	Wink	Rucker, Alice-HE	Ablene
Priebe, Helen-HE	Wink	Rucker, George-G	Bowie
Pruet, Royce-S	Putnam	Rucker, Mrs. Virginia-5G	Quitaque
Fruitt, Katherine	Sparsenburg	Ruckman, Loye-5G	Pampa
Fryor, Gladys-Ed	Lubbock	Russ, Mrs. Jessie-Ed	Tahoka
Furtell, Kenneth-A	Brownfield	Russell, Rendall-G	Lubbock
Furyear, Lela D.-5G	Lubbock	Rutledge, Max-E	Lubbock
Putty, Ross-A	Lubbock	Ryan, Moffett-A	Lubbock
Qualia, Mrs. Jeanne-HE	Lubbock	Sams, Robert-E	Benjamin
Rackley, Mrs. Olive-Ed	Meadow	Sanders, Roy W. Jr.-G	McCamey
Railsback, Mrs. Bernice-Ed	Levelland	Sanderson, Glen-A	Lubbock
Railsback, Elzora-G	Slaton	Sanderson, V. C.-B	Lubbock
Ralston, Margarette-HE	Iowa Park	Saul, James-A	Miami
Ralston, Wilson-B	Bagwell	Savage, Betty-HE	Lubbock
Ramsey, Woodrow W.-G	Chillicothe	Savage, Mrs. Ivy-5Ed	Lubbock
Randolph, James-A	Lubbock	Schilling, Oscar-E	Amarillo
Range, Annette-Ed	Dallas	Schlueter, Ellene-B	Roby
Range, Beth-5HE	Justin	Schofield, Mrs. Beth-5G	Lubbock
Range, Byron-A	Dallas	Scott, Billie-E	Dickens
Rankin, John-A	Lefors	Scott, Cecil-E	Whiteface
Rankin, Louise-5Ed	Abernathy	Scott, Lee-G	Olney
Rankin, Robert-E	Midland	Scott, Pauline-5Ed	Houston
Ransdell, May Della-5G	Ellisville	Seale, Eugene-S	Lubbock
Rattan, Fred P.-5Ed	Spearman	Seaman, Christine-S	Lockney
Ray, James-E	Lubbock	Sedwick, Robert-E	Coleman
Ray, Jeff-B	Lubbock	Selby, William-E	Arlington, Va.
Ray, McElroy-5Ed	Lubbock	Self, Mrs. J. R.-Ed	Lubbock
Read, Mrs. Shelby-5G	Ackerly	Self, Ruth Sabina-E	Lamesa
Reast, Kenneth-A	Lubbock	Seljos, Rudolph-E	Clifton
Reavis, Mrs. Ruth-Ed	O'Donnell	Seright, Exile Era-5G	Hollis, Okla.
Reddell, D. F.-E	Tahoka	Settle, Mrs. Rosa-Ed	Lubbock
Redford, Mrs. Imogene-Ed	Brownfield	Shannon, Katherine-5G	Levelland
Redford, Mrs. Jeanne-G	Lubbock	Shannon, Mary Lucy-5G	Levelland
Redford, Logan-S	Lubbock	Sharp, Frank-E	Tulia
Redus, Bill-S	Mineral Wells	Sharp, Gerry-G	Vernon
Redus, Dean-G	Rotan	Sharp, L. Glen-5S	Lubbock

Sharp, Winnolee-HE	Vernon	Springer, Mary Elizabeth-G	Ropesville
Sharpe, Hugh M.-B	Detroit	Springer, Mary Lois-G	Aspermont
Shaw, Arvil-G	Weatherford	Springer, Richard-S	Fort Worth
Sheehan, Richard M.-G	Hermleigh	Spykes, Alta Jane-G	Hermleigh
Shelberg, Bob-E	Fort Worth	Spykes, Virginia-5G	Hale Center
Shelton, Mrs. R. M.-G	Morton	Stalcup, Evelyn-HE	Lockney
Shelton, Truman-G	Slaton	Staley, Annie Belle-Ed	Ringgold
Shepperd, Mrs. Geraldine-G	Stanton	Stanley, Wilma-HE	Levelland
Shepperd, S. Riggs-5Ed	Stanton	Stansell, Jack-A	Floydada
Sheriff, Velna Juanita-Ed	Lubbock	Staples, Harvey-G	Floydada
Sherwood, John-B	Roaring Springs	Stark, Florence-5G	Lubbock
Shewmaker, Otto-5Ed	Pampa	Starnes, Mary B.-Ed	Lubbock
Shipman, Lawrence-5A	Canyon	Stavio, Eddy-E	Gruver
Shipp, Hazel-HE	Lubbock	St. Clair, E. Cowan-5G	Lubbock
Shipp, Susie-Ed	Lubbock	St. Clair, John-B	Seymour
Shirey, Gerald-E	Mincola	Steele, Elizabeth-5G	Lubbock
Shockley, George-5Ed	Paducah	Steele, Roberta-5HE	Levelland
Shockley, Mrs. George-HE	Paducah	Steimer, William-5Ed	Lubbock
Shockley, William C.-5Ed	Del Rio	Stengel, Paul-B	Munday
Shofner, J. M.-5G	Nashville, Ark.	Stephens, Dorothy Mae-B	Lubbock
Shook, William-G	Cisco	Stephenson, Charles-A	Canyon
Short, Sterling-E	Lubbock	Stephenson, Donley-5B	Sweetwater
Shotwell, Zena-HE	Ablene	Stephenson, Mrs. Donley-5G	Sweetwater
Shows, Lewis-E	Donna	Stevenson, Bill-G	Amarillo
Sides, George-5A	Oilton	Stevenson, Ralph-5G	Abernathy
Sides, Lola-B	Lubbock	Stewart, Charles-E	Aspermont
Sides, R. F.-Ed	Hot Springs, N. M.	Stewart, Mrs. Mary-Ed	Lubbock
Sides, Mrs. W. A.-5B	Lubbock	Stewart, Nell-E	Dallas
Sikes, Mrs. Margaret-Ed	Bangs	Stewart, Mrs. S. L.-G	Aspermont
Simpson, Weldon-E	Waialua, Hawaii	Stiles, Mrs. Robbie Dell-G	Lubbock
Sims, Alline-G	Groesbeck	Still, Hamilton-Ed	O'Donnell
Sims, A. Ray-5G	Prairie Hill	Still, Mrs. Jane-Ed	O'Donnell
Sims, Archie-5G	Tahoka	Stinebaugh, J. D.-A	Ballinger
Sims, Mrs. Archie-Ed	Tahoka	Stipp, George-E	McAlister, Okla.
Sims, John L.-5G	Plainview	Stockton, Teresa-Ed	Plainview
Skipworth, Willis-G	Kosciusko, Miss.	Stone, Frances-5G	Canadian
Slayter, John H.-5Ed	Clovis, N. M.	Storey, David C.-A	Littlefield
Sledge, Attie-Ed	Long Branch	Stoughton, Fred-G	Atlanta, Ga.
Sleeper, James Lockert, Jr.-5S	Waco	Strasner, Stevens-G	O'Donnell
Smallwood, Virginia-G	Lubbock	Strawn, Hursel-G	Lubbock
Smart, V. C.-E	Spur	Stuart, Isabell-HE	Strawn
Smith, Allen H.-G	Cumby	Stuart, Lee-E	Fort Worth
Smith, Mrs. Alta-Ed	Brownfield	Stuart, Margaret-S	Sterley
Smith, Baron-5S	Richland Springs	Stuart, Robert-A	Fort Worth
Smith, Bryan-S	Lubbock	Studhalter, Walter-E	Lubbock
Smith, Burnett-G	Tahoka	Sturgeon, Erva K.-G	Lubbock
Smith, Drucilla-HE	Lubbock	Sudduth, Ola Cllett-S	Morton
Smith, Mrs. Emma-Ed	Floyd, N. M.	Sudduth, Dext-G	Eden
Smith, Emmitt-5Ed	Brownfield	Sullivan, Pat-G	Muleshoe
Smith, Ethel-5Ed	Lubbock	Surratt, Priscilla-G	Pampa
Smith, Mrs. Frank-Ed	Crosbyton	Surratt, Robert-S	Pampa
Smith, Geneva-G	Lubbock	Sursa, Lloyd-B	Childress
Smith, James-G	Hedley	Swafford, Himalaya-5G	Merkel
Smith, John-5A	Panhandle	Swofford, Lida-Ed	Richmond, Mo.
Smith, Lola Jean-HE	Lubbock	Symes, Clarence-E	Ablene
Smith, Mrs. Pearl-G	Lubbock	Tarliton, Frances-G	Lubbock
Smith, Mrs. P. O.-Ed	Whiteface	Tate, Ernest-A	Lubbock
Smith, Pleas-Ed	Whiteface	Tate, Grayson-5Ed	Lockney
Smith, Robert-E	Howe	Taylor, Garland-A	Tarzan
Smith, Roy L.-S	Lubbock	Taylor, Velma-Ed	Ballinger
Smith, Ruby Nell-G	Brownfield	Taylor, Vera-Ed	Ballinger
Smith, Ruth-5Ed	Lubbock	Taylor, W. Robert-Ed	Snyder
Smith, Wendell-E	Brownfield	Teague, Abner-E	Gainesville
Smith, Betty Nell-G	Ropesville	Temple, Jane-S	Lubbock
Smoots, Dan R.-S	Fritch	Temple, Kathryn-G	Lamesa
Snell, Thaddeus A.-G	Tulsa, Okla.	Terrell, Deveral-S	Rotan
Snider, Wilmer-5G	Tulsa, Okla.	Terry, A. C.-G	Lubbock
Snider, Montez-Ed	Lubbock	Thacker, Olivia-Ed	Lubbock
Snively, Laurence-5Ed	Colorado	Thacker, Vera Pearle-G	Lubbock
Snoddy, Lois-5Ed	Brownwood	Tharp, Grady-5Ed	Turnersville
Snow, Jack-5S	Lubbock	Thomas, Fulton-G	Dalhart
Snyder, James-G	Moran	Thomas, George-S	Lubbock
South, J. L.-A	Dimmitt	Thomas, Harold-5Ed	Crystal City
Souther, Mrs. Carroll-5HE	Amarillo	Thomas, Helen-S	Lubbock
Sowell, Kathryn-5Ed	Lubbock	Thomas, Hugh-B	Lubbock
Sowell, Maurice-E	Lubbock	Thomas, Mrs. Waita-Ed	Hale Center
Sparkman, Paul-B	Ralls	Thompson, Blanche-HE	Itasca
Sparks, R. E. Jr.-5G	Foard City	Thompson, D. A.-E	Brownfield
Spear, Sid-G	Childress	Thompson, Fay-HE	Farwell
Spear, Velma Dean-HE	Childress	Thompson, Harold-E	Denver, Colo.
Spears, Mrs. Irene-Ed	Tahoka	Thompson, Janice-5Ed	Plainview
Spears, Otis-G	Tahoka	Thormann, Vera-HE	Loraine
Spears, W. S. Jr.-A	Fort Worth	Thornberry, Dan-G	Goodnight
Speer, Frances-G	Dickens	Thornton, Dorothy-B	Farwell
Spence, C. Orvel-5A	Floydada	Tidwell, Mrs. Maggie-Ed	Hobbs, N. M.
Spotts, Jeroline-HE	Lynn, Ark.	Tiner, Mrs. Beatrice-5Ed	Lazbuddie
Spikes, Mrs. Addie-5G	Lubbock	Tiner, G. C.-5G	Lazbuddie
Spring, Lee-B	Friena	Tinkler, Mary Louise-G	Lamesa
Springer, Denver-S	Lenora	Tippit, Doris Nell-HE	Lubbock
Springer, Grover-G	Tarzan	Tipps, Mary-B	El Paso
Springer, Mrs. Irene-G	Tarzan		

REGISTER OF STUDENTS

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Tipps, Rob M.—5Ed	Kilgore	Wharton, Vivian Doris—G	Fort Worth
Tipps, Mrs. R. M.—Ed	Kilgore	Wheat, Joe Ben—5G	Lubbock
Tipton, Dorothy—Ed	Plainview	Wheeler, Ila Marie—G	Lubbock
Todd, Nina Ruth—G	Lubbock	Whitaker, Mildred—5G	Colorado City
Tole, Mrs. A. Odene—5HE	Crowell	White, Mrs. Anne—Ed	Spur
Tole, John M.—Ed	Crowell	White, J. E.—5Ed	Dimmitt
Tole, Otis S.—5G	Vernon	White, Beth—G	Oklahoma City, Okla.
Toliver, Mary—G	Pecos	White, Mrs. Vada—Ed	Grandfalls
Toombs, Fern—Ed	Meadow	White, Zoe—HE	Lubbock
Townley, Wanza Lou—HE	Paducah	Whiteley, L. D.—G	Wheeler
Travis, Faye—G	Lubbock	Whiteside, Dan—G	Littlefield
Travis, Mrs. Ruby—5Ed	Floydada	Whitfill, Billy—S	Lockney
Travis, Walter—5Ed	Floydada	Whitlock, Edith—5Ed	Lubbock
Trigg, Mrs. J. T.—Ed	Lubbock	Wilbanks, Mrs. Floy—5G	Lubbock
Triplitt, Mrs. Ethel—Ed	Lubbock	Wilbanks, Julia—G	Spearman
Triplitt, Rupert A.—B	Lubbock	Wilder, Robert—E	Wellington
Trow, Mrs. Elsie—Ed	Lubbock	Wiley, Norman—S	Lubbock
True, Juanita—HE	Lubbock	Wilhelm, Amy—Ed	Lubbock
True, Martha—G	Lubbock	Wilhite, Mrs. Berta—G	Slaton
Tucker, Peyton—A	Lubbock	Wilkins, Mrs. Ada C.—5G	Clyde
Tudor, Rebecca—HE	Slaton	Wilkowske, Lorraine—5G	Athens
Turner, Bogard Dot—G	Knott	Willard, Aubrey—E	Wellington
Turner, E. L.—E	Floydada	Willhoit, Lucille—HE	Humble City, N. M.
Turner, Jack—B	Lubbock	Williams, Charles S.—5Ed	Alice
Turner, John F.—E	Santa Anna	Williams, Coleman—E	Cisco
Turner, K. Lanse—E	Brownfield	Williams, Commie—5G	Lubbock
Turner, Leland—A	Lockney	Williams, Floyd—A	Troup
Turner, T. J.—5B	Knott	Williams, Helen Frances—HE	Tahoka
Twiss, Freeman—E	El Paso	Williams, Helen—G	Rochester
Tynes, Nina—HE	Lubbock	Williams, J. Stanley—E	Amarillo
Tyskiewicz, Clement—Ed	Lubbock	Williams, Mrs. O. O.—Ed	Idalou
Vanlandingham, Mrs. Irene—Ed	Flore	Williams, Sherrod—G	Paducah
Vanlandingham, Homer—G	Flore	Williams, Wanda June—G	Munday
Vaughn, Mrs. Amy—Ed	Lubbock	Williamson, Bonita—5HE	Lubbock
Vaughn, Vaughn—5G	Lubbock	Williamson, Ocie Hugh—E	Lubbock
Verner, Darrell—B	Meadow	Willford, Harriette—HE	Fairfield
Vernon, Mary Etta—HE	Roscoe	Willis, Charles—A	House, N. M.
Vernon, William—5Ed	Brownfield	Willis, Mrs. Charles—5G	House, N. M.
Vinson, Teddy—A	Ackerly	Willis, Hood G.—5A	Miami
Vinzant, Pharene—HE	Lamesa	Wilson, Mrs. Anna Jo—5Ed	Lubbock
Viriden, Willie Bell—5G	Winters	Wilson, Annie Love—G	San Angelo
Voss, Geneva Jo—G	Post	Wilson, Cephus B.—E	Fort Davis
Wadzeck, G. B.—5Ed	Spur	Wilson, Mrs. C. R.—Ed	Paducah
Waggoner, Noel—E	Claude	Wilson, F. L.—5G	Rochester
Walker, Dorothy—5Ed	Lubbock	Wilson, George—A	Princeton
Walker, Eddythe—Ed	Littlefield	Wilson, Hazel Ann—HE	Lubbock
Walker, Joe O.—E	Lubbock	Wilson, Janet—HE	Slaton
Walker, Mrs. Laura—G	Levelland	Wilson, J. D.—5Ed	Paducah
Walker, Mary Louise—Ed	Fort Worth	Wilson, Jimmie Lynn—G	Lubbock
Walker, Merle—HE	Britton	Wilson, John W.—5Ed	Lubbock
Wall, Elmer—S	Knox	Wilson, L. G.—G	Lubbock
Wallace, Don—S	Colorado	Wilson, Mary Louise—5G	Lubbock
Waller, Ruby Lee—5Ed	Morgan	Wilson, Mrs. Walter—5G	Big Spring
Walling, Foy—E	Palestine	Windwehen, Amelia—Ed	Plainview
Wallis, William—G	Clovis, N. M.	Windwehen, Mozelle—5Ed	Plainview
Walton, James K.—S	Muleshoe	Wingo, Mancy—5Ed	Plainview
Wardell, Richard H.—5S	Lubbock	Wolfskill, Mrs. Eula—HE	Lubbock
Wardlaw, Mary Etta—HE	Hale Center	Womack, Herbert—G	Tahoka
Ware, Mrs. Mary Ann—5Ed	Lubbock	Wood, Emmett—B	Lubbock
Warren, Verner O'Veil—Ed	Tahoka	Wood, Joe—S	Galveston
Waters, G. Dallas—5G	Lorenzo	Wood, Margaret—G	Lubbock
Waters, Mrs. G. Dallas—G	Lorenzo	Woodall, Milton—E	Duncanville
Waters, Granville—E	Crowell	Woodfin, Myrtle—G	Snyder
Watkins, Marguerite—G	Seagraves	Woods, Mrs. Irene—Ed	Lubbock
Watkins, Mary Elizabeth—G	Slaton	Woodward, Mary Lela—B	Santa Anna
Watkins, Orville—5G	Pettit	Woolam, Maurice O.—5Ed	Meadow
Watson, Mrs. Bennie—Ed	Eldorado	Woolam, Mrs. Newell—5G	Meadow
Watson, Chancy—5Ed	Grand Saline	Worley, Evelyn—5HE	Snyder
Watson, Mrs. Hallie—Ed	Grand Saline	Wright, Chester—G	Shallowater
Watson, Maxine—G	Hale Center	Wright, Dorothy—G	Lubbock
Weakley, Jane—HE	Roby	Wright, Dorothy Jane—G	Cement, Okla.
Weatherby, H. C.—5A	Shamrock	Wright, Louie—5HE	Lubbock
Weaver, Aubrey—G	Lubbock	Wright, Lucille—HE	Tahoka
Weaver, Ewing—A	Jonesboro	Wright, Maurice—5G	Hico
Webb, J. D.—B	Abernathy	Wright, Rena Georgina—G	Lubbock
Webb, Joe E.—5Ed	Slaton	Wynn, Mrs. Alda—Ed	Wellington
Webb, Nina Rose—HE	Big Spring	Yarbrough, Sara Marie—HE	Galveston
Webb, Wayne—5Ed	Anton	Yeager, Mary Burk—HE	Lubbock
Webster, J. D.—E	Memphis	Yelton, Fred—E	Alamogordo, N. M.
Webster, Walter—G	Lubbock	Young, Mildred—HE	Roby
Wells, Arthur—5Ed	Chalk	Young, Zeal—S	Hawley
Wells, Mrs. Arthur—Ed	Chalk	Youngblood, Geraldine—G	Blackwell
Wells, J. L.—S	Slaton	Zachry, Mrs. Frances—5Ed	Meadow
Wells, Jack M.—S	Lubbock	Zellner, Julian—S	Lubbock
Wells, John K.—A	Lakeview	Zorns, Jim—A	Meadow
Wells, Ray C.—Ed	Lubbock		
Wells, Mrs. Wallis W.—5Ed	Lubbock		
West, Hoy—G	Windgate		
Westmoreland, Mrs. Georgia—Ed	O'Donnell		
Wharton, Doris—5G	Lubbock		
Wharton, Jerriene—G	Lubbock		
Wharton, Patsy—G	Fort Worth		

LONG SESSION, 1940-41

ABBREVIATIONS

A—Agriculture
AS—Arts and Sciences
E—Engineering
HE—Home Economics
*—Woman Student

1—Freshman
2—Sophomore
3—Junior
4—Senior
Grad.—Graduate

Aaron, Abner A., 2E	Rotan	Andrus, Allen, 2AS	Anson
Aaron, James Homer, 2A	Rotan	Angel, Joe C., 2E	Lorraine
*Abbott, Bertha, 3HE	Vernon	*Ansley, Pearl, 2AS	Lamesa
*Abbott, Evelyn, 3HE	Vernon	Applegate, Stanley Byrel, 1AS	Lamesa
*Abbott, Jack P., 1AS	Lubbock	*Appling, Mary Helen, 2AS	Slaton
Abbott, Noble S., 4A	Ablene	Archer, J. E., 1E	Anson
Abdo, Milton, 2E	Dallas	Arensman, George Louis, 3E	Dallas
*Abel, Darlene, 3E	Lubbock	Arlidge, Billy Barnett, 1A	Roscoe
Abernathy, Bill Ray, 2AS	Palo Pinto	Armstrong, Bobbie Neal, 1A	Littlefield
Acton, George, 1E	Wichita Falls	Armstrong, Edwin A., 2AS	Lubbock
Adams, Bill, 1AS	Amarillo	Armstrong, Fred, 4E	Pecos
Adams, Elmer H., 3E	Spur	Armstrong, J. Clifton, 4AS	Lubbock
*Adams, Frances, 3HE	Lakeview	*Armstrong, Ollie Sue, 3AS	Ft. Worth
Adams, James H., 4A	Tulla	Arnett, Tom Stanford, 1A	Snyder
*Adams, Lona Bell, 3AS	O'Donnell	*Arnold, Camille, 1HE	Littlefield
*Adams, Peggy, 3AS	Estelline	Arnold, Marvin C., 3AS	Rails
Adams, Quentin, 5A	Turkey	Arnold, Robert, 2AS	Lubbock
*Adams, Vivienne, 1AS	Lubbock	Arrington, Mark, 3AS	Miami
Akers, William Walter, 2E	Dallas	*Asher, Margaret Elizabeth, 2HE	Lubbock
Akins, Billie Tom, 3AS	Hillsboro	*Ashley, Monterey, 3HE	Melrose, N.M.
Akins, Dudley Stephenson, 4AS	Canyon	Aston, Paul Thomas, 1AS	Sweetwater
Albers, John Erwin, Jr., 1AS	Lubbock	Atcheson, Mack, 3E	Lubbock
*Albritton, Frances, 1HE	Lubbock	*Ater, Nina Mae, 2HE	Roscoe
Aliderson, Harry Orville, 1AS	Lubbock	Ater, Reverdie, Jr., 1AS	Ropesville
Alexander, Ben Bates, 1AS	Morton	*Atkinson, Almarene, 4HE	Shamrock
Alexander, Ben, 1A	Arlington	Atkinson, George Newell, Jr., 3AS	Lubbock
Alexander, Charles, 3AS	Lubbock	Atkinson, James S., 4AS	Shamrock
Alexander, Chester Loyd, 1AS	Lamesa	Augustine, Sam L., 1A	Sterling City
Alexander, Jack W., 4AS	Lubbock	Austin, Don, 2AS	Wellington
*Alexander, Lorena, 2HE	Arlington	Austin, Henry W., 3AS	Lubbock
Alexander, Paul W., 2AS	Lubbock	Austin, L. M., Jr., 1E	Lubbock
Alexander, Ralph Hershel, 1AS	Tomball	*Austin, Virgie Louise, 1AS	Lubbock
Alford, Carl Edward, 2E	Lubbock	Aves, Charles, 2E	Houston
Alford, Howard, 1A	Freepport	Awtrey, W. H., Jr., 2A	Muleshoe
Allan, Christen H., 1AS	Westbrook	*Axtell, Jane, 4AS	Dimmitt
Allbright, Wilburn, 3AS	Loraine	Ayers, James O., 1AS	Slaton
Allen, A. Charles, 1AS	Littlefield	*Ayers, Patsy, 2AS	Atchison
Allen, Claude Eugene, 1AS	Corsicana	Aylor, Horace E., 1AS	Floydada
*Allen, Dorothy Frances, 2AS	Lubbock	Ayres, Hugh J., 3E	Floydada
*Allen, Elwanda Maurine, 3AS	Snyder	*Babb, Betty, 1HE	Lubbock
Allen, George H., 4E	Stratford	Babb, William Truett, 2A	Post
Allen, George Tom, 4A	Plainview	Baber, Tom A., 1E	Lubbock
Allen, Howard Charles, 4E	Lubbock	Bachman, Justus Weaver, 3E	Throckmorton
Allen, Ivan E., 1AS	Booker	*Bagwell, Marjorie Janice, 2AS	Claude
Allen, J. D., 3AS	Whiteflat	Bagwell, William Brent, 3E	Claude
Allen, Jack W., 3E	Wichita Falls	*Bailey, Pettie, 1AS	San Angelo
Allen, James Earl, 3AS	Hale Center	Bailey, B. Larry, 1AS	Odessa
Allen, Kenneth, 4A	Quail	*Bailey, Kathryn, 4AS	Lubbock
*Allen, LaVerne, 2E	Lubbock	Baillio, Loyce, 3AS	Elmo
*Allen, Marjorie Ray, 1AS	Lubbock	Bain, Tyrus, 4AS	Mexia
Allen, Nathan, Jr., 2A	Big Spring	Bains, Harvel Anson, 1E	Baird
Allen, Robert, 3E	Garland	*Baker, Dorothy Lee, 3AS	Lubbock
Allen, Robert T., 3AS	Lubbock	Baker, Elva, Grad	Ablene
Allen, Sammy, 1AS	Brownwood	Baker, George Marvin, 4E	Amarillo
*Allen, Wanda Louise, 4HE	Lubbock	Baker, Joe Bob, 1AS	Lorenzo
Allensworth, William B., 1E	Lubbock	*Baker, Mary Alice, 4AS	Lubbock
Allison, John Kenneth, 1E	Corsicana	Baker, Melvin T., 1AS	Big Spring
Allmon, Charles Gilbert, 1E	Plainview	Baker, Robert Charles, 1AS	Dallas
Allred, Glenn B., 3A	Wilderado	Baker, Wincer Glendale, 3AS	Pampa
Allred, Otis Bernard, 1AS	Tyler	*Baldwin, Elizabeth, 3AS	Lubbock
*Alls, Elizabeth, 1AS	Swenson	Baldwin, Marie, 1HE	Morton
Altiers, Carl Roy, Jr., 2E	Hobbs, N.M.	Ball, Billie N., 3AS	Slaton
Altendorf, Harold Joseph, 1E	Fritch	*Ball, Geraldine, 3AS	Lubbock
Altendorf, Philip, 1E	Lubbock	*Ball, Margaret, 2AS	Arlington
Altman, Floyd, 1AS	Lubbock	*Ballard, Eette, 1HE	Lubbock
Ambrose, Warren, Jr., 2AS	Ft. Worth	*Ballard, Mary Louise, 1AS	Brownfield
*Ameen, Mabel, 1AS	Lubbock	Ballew, Durwood, 1E	Archer City
Ameen, Ray Charles, 4AS	Lubbock	*Ballow, Dempsey, 4AS	Levelland
*Amick, Mary, 2HE	Lubbock	Ballow, Frances, 2AS	Levelland
Amonett, Thayne, 2AS	Flomot	*Ballow, Charlotte, Grad	Levelland
Anderson, Bill G., 2E	Albany	Bandeem, Robert DeWitt, 2E	Ablene
Anderson, Boyd, 1E	Westbrook	Bandy, Thomas Ed, 2A	Happy
Anderson, Chester, 2AS	Westbrook	*Banks, Helen, 1AS	Greenville
Anderson, Douglas, 2E	Lubbock	*Bankston, Norma Gene, 2AS	Balling
Anderson, Ernest, 4AS	Earth	*Banning, Naomi Frances, 3AS	Burkburnett
Anderson, Jack, 4AS	Shallowater	Barber, Alva, 2E	Lubbock
Anderson, James W., 3E	Dallas	Barber, Jack Anthony, 2E	Lubbock
Anderson, J. R., 2E	Shallowater	Barber, John Burton, 3E	Forsan
Anderson, Paul, Jr., 1E	Ft. Worth	Barber, Paul, 2AS	Seagraves
Anderson, Robert S., 4E	Cisco	*Bargsley, Opal, 2AS	Denver City
Andis, Bob, 2A	Pampa	Barker, Alton Ross, 1AS	Lubbock

REGISTER OF STUDENTS

259

Barker, Arthur, Jr., 2E	Lockney
*Barkley, Myrnavae Aileen, 1HE	Matador
Barks, Guy S., 1AS	Tulia
*Barlow, Nancy, 2AS	Ft. Worth
*Barnard, Marie, 3AS	Lubbock
Barnes, George G., 2AS	Dallas
Barnes, Glynn, 2AS	Honey Grove
Barnett, Carl Fred, 2E	Dallas
*Barnett, Enna Alberta, Grad	Lubbock
Barnett, James William, 2AS	Phillips
Barnett, Mary Clare, 3AS	Lubbock
Barnhill, John Lynn, 1AS	Turkey
*Barr, Carlene, 1AS	Lorenzo
*Barr, Leonard A., Jr., 1E	Newgulf
*Barr, Virginia Lee, 4HE	Lubbock
Barrett, Billy, 1AS	Whiteface
Barrett, Howard Duke, 2A	Lubbock
Barrett, Wolsey, 1E	Snyder
Barriack, Milton, 4E	Abernathy
*Barrier, Pauline, 3AS	Lubbock
Barrington, Cyde R., 1AS	Sweetwater
*Barron, Elmerine, 4HE	Lamesa
*Barron, Fern, 1AS	Paducah
*Barrow, Frances, 1AS	Lamesa
*Barry, Lois May, 3AS	Lubbock
Bartel, Albert Reid, 4E	Dallas
*Bartlett, Helen Elнора, 2HE	Houston
Barton, Cecil, 1AS	McAdoo
*Barton, LaVerne, 2HE	Lubbock
Barton, Weldon, 2A	Earth
Baskin, Billy, 4AS	Lubbock
*Bateman, Mrs. Jessie, Grad	Lubbock
Bates, J. L., Jr., 1AS	Mangum, Okla.
*Bates, Mary Glen, 4HE	Roby
Batson, Glenn, 1AS	Amherst
*Battfield, Letrice, 1AS	Whiteface
Battson, L. H., Grad	Abernathy
Battson, Nettie Belle, 3AS	Littlefield
Baucum, Albert, 1AS	Anson
Baugh, Lee, 3AS	Brownwood
Bauman, Willard E., 4E	Munday
Baumann, Edward, 2E	Loraine
Baumgardner, Haynes Madden, 3A	Wellington
*Baumgart, Pauline, 2HE	Mercedes
Bavousett, Scott, 1A	Snyder
Bayles, George V., 1E	Balmorhea
Bayles, John, Jr., 1A	Balmorhea
*Bayless, Lois, 2AS	Kermit
Baze, Robert Kelly, 2AS	Idalou
*Beall, Ophelia May, 1AS	Lubbock
Beaman, David Kenneth, 1AS	Laredo
Beane, Kenneth Glenn, 3E	Edinburg
Beard, Fred, 1AS	Lubbock
Bearden, J. C., 1AS	Lubbock
*Beasley, Marhelen, 3AS	Lubbock
*Beasley, Maxine, 1AS	Lubbock
Beaty, Charles L., Jr., 3E	Dallas
*Beaty, Urrica, 2AS	Lubbock
Beaver, William, 4A	Mexia
Beavers, Jack D., 3E	Hillshoro
Beavers, Jerry, 1A	Camp Springs
*Beazley, Annah Jo, 1AS	Vernon
Bechtol, Roy, 2E	Lubbock
Beck, W. Curtis, 1A	San Angelo
Becker, Geraldine, 2AS	Brownwood
Beckmeyer, Harold, 4AS	Sporenberg
Belcher, Herbert R., 2E	Lubbock
Belcher, William, 3AS	Lubbock
Belew, Ross, 1AS	Fluvanna
Bell, Alvin, 4A	Dorchester
Bell, Arthur, Jr., 1A	Vernon
Bell, Barbara, 2AS	Ackerly
Bell, Forrest William, 3E	Farwell
Bell, Howard F., 4E	Rankin
Bell, L. K., 1AS	Chillicothe
Bell, Laura Treva, 4HE	Lubbock
*Bell, Mary Frances, 2AS	Electra
Bell, Paul, 1AS	Vernon
Bell, Ted, 1AS	Floydada
*Bellah, Lola Mae, 1AS	Woodson
Bellah, Ouida Easter, 1AS	Woodson
Bellah, Walter, 2A	Lubbock
Bellville, Roy, 3A	Dallas
*Belt, Mary Tom, 1AS	Ackerly
Benger, Noel, 4A	Friona
Bennett, Byron Jirden, 4E	Loraine
*Bennett, Helen, 2HE	Ft. Worth
Bennett, J. Weldon, 3AS	Stamford
Bennett, Lavin, 3E	Paducah
*Bennett, Lorna, 4AS	Amarillo
Bennett, Maurice, 1AS	Crosbyton
Bennett, Vernon Eugene, 3E	Portales, N. M.
Benson, Carl Wallace, 1AS	Knox City
Benson, Charles Eugene, 2AS	Hale Center
*Bentley, Martha Nell, 3AS	Anton
Berg, Charles, Jr., 1AS	Lancaster
*Bergholm, Frances Adele, 3AS	Lubbock
Bergman, Clinton Odell, 3A	Clifton
Berry, Harold, 1AS	Westbrook
Bertrand, J. R., Grad	White Deer
Beseda, Henry Ernest, 3AS	Caldwell
Beseda, J. Maitland, 4AS	Caldwell
Best, Melvin L., 3AS	Lubbock
*Beyers, Murel, 4HE	Lakeview
*Beyhan, Bill F., 1E	Borger
Bickham, John Dwight, 2AS	Slaton
*Bickley, Louise, 1AS	Lubbock
*Bickley, Mary Elizabeth, 3AS	Stanton
*Bidwell, Barbara Ann, 2AS	Clovis, N.M.
*Bier, Carrie T., Grad	Lubbock
*Bihl, Betsy Dan, 4AS	Ft. Stockton
*Billings, Christine, 3HE	Ft. Stockton
Billingsley, Roy Connor, 2A	Lubbock
Bills, Elbert, 1A	Whiteface
*Binford, Barbara, 4AS	Wildorado
*Binford, Nancy Jean, 2AS	Wildorado
Bingham, Francis, 3AS	Spur
*Binkley, Audrey, 4AS	Ft. Worth
Binkley, William Brent, 3E	Ft. Worth
Birdsong, Junior Lovelle, 3E	Pittsburg
Birdsong, Merlin C., 3E	Pittsburg
*Birdwell, Christine, 4AS	Lubbock
*Birkman, Anne, 1HE	Lubbock
*Bishop, Mrs. Carrie Lee, 4HE	Sudan
Bishop, James Colon, 2E	El Paso
Bishop, LeRoy, 3E	Lueders
*Bishop, Mabel, 2AS	Amarillo
*Bishop, Margaret, 2HE	Amarillo
Bishop, Robert F., 1AS	Lueders
Black, Byron, 1A	Brownfield
*Black, Carolyn, 4AS	Barstow
Black, Charles Edward, 4A	Barstow
*Black, Joyce, Grad	Lubbock
*Black, Kathryn, 4E	Lubbock
Black, S. J., 3E	Pampa
Black, Vance, 3A	Barstow
*Blackburn, Billye Louise, 2HE	Seymour
Blackburn, Lewis Parker, 4E	Iraan
*Blackburn, Snow, 2AS	Iraan
Blackwell, Frazer Nelson, Jr., 1AS	Lubbock
Blair, Aubrey L., 3E	Holland
Blair, Eugene, 1E	Plainview
Blair, George B., Grad	Lubbock
*Blair, Sibyl, 4HE	Lubbock
Blake, Bob Wade, 1AS	Lubbock
Blake, George Burks, 1AS	Lubbock
Bland, Delma, 1AS	Sweetwater
Blandia, Peter Paul, 2AS	Lubbock
*Blankenship, Essie Mae, 1HE	Escob
Blanton, James E., Jr., 3AS	Chico
Bledsoe, William Harrison, 2E	Amarillo
Bledsoe, Willis H., 4AS	Lubbock
Bley, Winston, 3AS	Olton
Block, Ivan L., 4AS	Pampa
*Blocker, Addie Beth, 1AS	Stanton
Blocker, John, Jr., 4AS	Stanton
Blodgett, Clarence Ralph, 4AS	Spearman
Blomshield, Harry Wesley, 2E	Big Spring
Blomshield, John Bryant, 2E	Big Spring
Blossom, Rea, 3E	Amarillo
*Blount, Hazel Inez, 1HE	Paducah
Blundell, Lee, 4AS	Lubbock
*Boatman, Goldie Marie, 1AS	Ft. Stockton
*Boaz, Nora Lee, 3AS	Ft. Worth
*Bobbitt, Edwin, 2A	Panhandle
*Bobbitt, Sally Myrtle, 2HE	Lockney
Bodenhamer, Donald Eugene, 1AS	Lubbock
Bodenhamer, Haydn Rae, 2AS	Lubbock
Bogan, Bernard, 4E	Lubbock
Bogan, Jack, 2AS	McLean
*Bogess, Nancy Catherine, 4AS	West
*Bogess, Barbara Rebecca, 1AS	Wichita Falls
Bohner, George, Jr., 1AS	Olton
Boman, Kenneth Harold, 1AS	Vernon
Bomar, Charles, 1AS	Lubbock
*Bond, Frances Olivia, 1HE	Morton
*Bonds, Cosette Adelia, 4AS	Lubbock
*Bonds, Eloise Frances, 2AS	Lubbock
Bonner, Dickson Pickett, 3AS	Dallas
Booher, George Douglas, 1E	Post
Boone, Claude, 1E	Seymour
Boone, Jack Warren, 3E	Lubbock
*Boone, Jimmie Amelia, 2AS	Lubbock

Boone, Roy, 1A	Seymour	Brown, Deverle, 3AS	Sweetwater
*Booth, Mary Catherine, 4AS	Searcy, Ark.	Brown, D. L., 1A	El Paso
Borden, Charles J., 4E	Hereford	*Brown, Elizabeth, 1AS	Knott
Borden, Luther, 1AS	Galveston	Brown, Ernest D., 4AS	Electra
*Bordwell, Harriet, 2AS	Amarillo	*Brown, Frances, 1AS	Roaring Springs
*Boren, Alethea, 1AS	Dallas	Brown, Franklin D., 4AS	Lubbock
*Born, Betty Jean, 1HE	Lubbock	Brown, Glenn, 1AS	Midland
Born, Harry Kay, 2AS	Lubbock	*Brown, Helen Ruth, 3AS	Plainview
Bost, George V., 2AS	Amarillo	*Brown, Henri Elizabeth, 3AS	Sweetwater
*Bost, Mrs. Alta Jane, 4AS	Hermleigh	Brown, Jack Warren, 3E	Eastland
*Bost, Jack, 2E	Amarillo	Brown, Jack Wilson, 1AS	Lubbock
*Bostick, Elizabeth, 3AS	Slaton	Brown, Jimmie Rufus, 2AS	Abilene
Boston, Billy, 2AS	Perryton	Brown, John Kenan, 2E	Paducah
Bosworth, Richard, 2AS	Tahoka	*Brown, Lota Lois, 3AS	Dublin
Bottling, Marvin Alvin, 3E	Ireland	Brown, Marvin, 2AS	Bledsoe
Boucher, Mayo Terry, 4AS	McAdoo	*Brown, Mary Anna, 2HE	Coahoma
Bowden, Adrian C., 4E	Harrold	*Brown, Mary Ellen, 1HE	Slaton
Bowden, Mary Elizabeth, 3AS	Fabens	*Brown, Mary Georgia, 3AS	El Paso
Bowdell, Lowell Norwood, 1AS	Booker	*Brown, Ollie, 4AS	Lakeview
Bowen, Glen, 1A	Jacksboro	Brown, William (Billy), 1AS	Floydada
*Bowen, Phyllis, 2AS	San Angelo	Brown, William L., Jr., 3AS	McKeesport, Penn.
Bowlin, James Preston, 2AS	Lubbock	Brown, Gid Ellis, 1A	Levelland
*Bowlin, Mrs. Jennie V., 2AS	Lubbock	Browne, Glenn, 2E	Lubbock
*Bowman, Virginia, 1AS	Slaton	*Brownfield, Leta Jane, 2AS	Brownfield
Boyd, Bob, 1A	Lorenzo	*Browning, Georgie Nell, 1HE	Pampa
Boyd, Glenn, 1AS	Cisco	*Browning, Katherine, 4HE	Truscott
*Boyd, Glenna, 1E	Lubbock	Brownlee, Floyd, 2E	Pecos
*Boyd, Imogene, 2AS	Lubbock	Bruce, Charles, 3AS	Mt. Vernon
Boyd, Joseph Young, 1E	Lubbock	Bruce, Dalton, 1AS	Brownwood
Boyd, Leland, 1AS	Lubbock	Brunson, G. W., 2A	Lubbock
*Boyd, Marian, 3HE	Amarillo	Brunson, Loyd E., 2AS	Longworth
*Boyd, Ola C., 1AS	Crane	*Brunson, Polly, 1AS	Lubbock
Boyd, R. W., Jr. (Bobby), 1A	Sweetwater	*Bryan, Mrs. Ruth Wilbanks, 4HE	Spearman
Boyles, Ellis Griff, 1AS	Sudan	*Bryant, Mattie Lou, 2AS	Morton
Boynton, E. V., Jr., 4E	Lubbock	Buchanan, Arthur, 1A	Tokio
Bradford, John Ross, 3E	Amarillo	*Buchanan, Beatrice, 4HE	Friena
Bradley, Charles William, 1AS	Fife	Buchanan, John Lynn, 3AS	Garland
*Bradley, Gladys Belle, 2HE	Fife	*Buck, Vee, 1AS	Morton
Bradley, Joe A., 1AS	Tulia	Buckingham, James E., 1AS	Pampa
Bradley, Tom, Jr., 2A	Fife	*Buckner, Billie Patricia, 3AS	Cotton Center
Bradshaw, Fred, 4A	Lorenzo	*Buckner, Mrs. Hazel Ann, 4HE	Lubbock
Bradshaw, Johnie, 2AS	Sweetwater	Bucy, Charles, 4AS	Rising Star
Brakebill, Roy, 1AS	Bonham	*Bucy, Mrs. Jane Wilson, 4AS	Lubbock
Braly, Hugh, 1AS	Delwin	Buie, Carey M., Jr., 3A	Kopperl
*Branaman, Jackie, 1AS	McAdoo	Buie, Janice, 3AS	Stamford
*Branch, Ruby Lynn, 2HE	Lubbock	Bullock, G. K., Jr., 3A	Becton
*Brannan, Gordon Harold, 3AS	Plainview	*Bumpass, Mrs. Rommie Boyd, Grad	
*Brannen, Iva Ellen, 2AS	Aspermont	Bundrant, Charles Ollie, 3E	Meadow
*Brannen, Marguerite, 2HE	Littlefield	*Bundrant, Johnie Mae, 1AS	Meadow
Brannon, Hunter H., Jr., 4AS	Sundown	Bundrant, Vernon, 3AS	Meadow
Branscum, Cecil Wayne, 1AS	Pampa	*Bunger, Doris Louise, 2AS	Ozona
Brantley, Harold, 1AS	McAdoo	*Bunkley, Dixie Golsby, 3AS	Lubbock
*Brashear, Monte Jo, 1AS	Lubbock	Burck, William J., 4A	Lubbock
Brasher, Virgil R., 1E	Mosheim	*Burdine, Mable Claire, 1HE	Lamesa
Brassell, Billy Burke, 2E	Mineral Wells	Burelsmith, Marcellous, 1AS	Vernon
Bratcher, John Bundy, 3AS	Lubbock	Burford, Wayne, 4A	Lubbock
*Bratton, Laurissa, 2HE	Rochelle	Burgamy, Estes, 2E	Paynor
Brazile, Berry D., 3E	Lubbock	Burk, Glenn S., 3AS	Anton
*Breed, Dora Ella, 1AS	Floydada	Burk, Jeff, 1AS	Hereford
Breland, John Marvin, 1E	Lubbock	*Burke, Betty, 2AS	Lubbock
Breland, W. C., 1E	Iraan	Burke, Dewitt, 1AS	Floydada
*Bresett, Jeanne Marie, 3AS	Las Vegas, N.M.	*Burkett, Bernice, 4AS	Henrietta
Brewer, Jim Bob, 4AS	Memphis	*Burkholder, Amo Lee, 1AS	Lubbock
Brewer, W. C., 1A	Oilton	Burleson, Lucy N., 1AS	Lubbock
*Bridges, Mrs. J. R., 4AS	Lubbock	Burleson, Wayne, 1AS	Big Spring
Brigham, Jim, 3AS	Big Spring	*Burnison, June, 2HE	Munday
Bright, Raymond C., 2E	Gage, Okla.	Burns, Jess Carroll, 1AS	Morton
*Brinker, Helen Juanita, 3AS	Baileyboro	*Burns, Wanda, 2AS	Lamesa
Brisbon, Willis, 1AS	May	*Burns, Rosemary, 1AS	Palestine
Brister, Lowelle Earl, 4AS	Snyder	*Burress, Buna Alice, 2AS	Lubbock
Britton, Charles, 1AS	Roaring Springs	Burris, Warren Harding, 1AS	Becton
Britton, Ellis Franklin, 2A	Plainview	*Burrus, Maurine, 1HE	Crosbyton
Britton, T. L., 1AS	Lubbock	*Burrow, Fontella Ladonia, 3HE	Tulia
Britton, Vivian Hugh, 4AS	Delwin	Burson, Joe Kline, 4AS	White Deer
*Brook, Lois LaVerne, 3AS	Elliasville	Burt, John Craig, 4E	Lubbock
*Brook, Omie, 4AS	Lubbock	Burton, Cecil Joe, 1A	Knox City
*Brook, Willard A., 1A	Brownfield	*Burton, Dorothy I., 3HE	Pampa
*Brooke, D'Lyle, 1HE	Lubbock	Burton, Geraldine, 4HE	Childress
*Brooke, Juno Helen, 2HE	Lubbock	Butcher, Mrs. Hattie, 3AS	Lubbock
*Brooks, Betty, 4AS	Lubbock	Butler, Bernard Ino, 1E	Brownwood
*Brooks, Bill, 2E	Gainesville	*Butler, Eugenia, 1HE	McAdoo
*Brooks, Burl C., 3E	Pampa	*Butler, Helen, 2HE	Amarillo
*Brooks, Mrs. Burl, 3HE	Pampa	*Butler, Henri Ella, 4HE	Lubbock
*Brooks, John R., 4E	Lubbock	Butler, LDean, 4AS	Tulia
*Brooks, James William, 1AS	Lubbock	*Butler, Ouida, 1AS	DeKalb
*Brooks, Manuel, 4A	Lubbock	Butler, Raymond L., 1E	Goree
*Brooks, Steve A., 3E	Borger	Butts, Carl DeWitt, 4AS	Morton
*Brotherson, Doris, 2HE	Pedro Miguel, Canal Zone	Butts, Charles Dana, 3AS	Wichita Falls
Browder, Dave, 2AS	Giles	*Butts, Helen Marie, 2AS	Morton
Brown, Baskin, 2A	Stratford		
Brown, Clifford Wilton, 3AS	Higgins		

Butts, Horace Willburn, 2E	Ft. Worth
Byars, Jesse Samuel, 3E	Afton
Byers, John Carter, 1AS	Lubbock
Bynum, Doris, 1AS	Levelland
*Bynum, Ivy Leah, 1AS	Lubbock
*Bynum, Jeanette, 2HE	Lubbock
*Byrne, Irene, 4AS	Littlefield
Byrom, Granville Odell, 1A	Trent
*Cade, Jo Dell, 2AS	Jayton
Cadra, Godfrey John, 2E	Shamrock
*Caffey, Mary Frances, 3HE	Loop
*Caldwell, Betty Rhea, 1AS	Lubbock
Caldwell, J. R., Jr., 4A	Farwell
*Caldwell, Norvell, 4AS	San Angelo
Calhoun, William Charles, 4AS	Lubbock
Calkins, Dick, 2E	Corsicana
Callahan, J. R., 1AS	Lubbock
Callan, William Jr., 2AS	Lubbock
*Calley, Gem Bob, 2AS	Lubbock
*Calvert, Mary Ann, 3HE	Archer City
*Cammack, Margaret, 1AS	Lubbock
Camp, Earl D., 4AS	Magazine, Ark.
*Camp, Hazel, 1HE	Lamesa
*Camp, Lanell, 4HE	Abilene
*Campbell, Beryl, 1AS	Lubbock
*Campbell, Edgar E., 1E	Tyler
*Campbell, Helen Faye, 1AS	Lubbock
*Campbell, Hollie H., 1AS	Colorado City
*Campbell, Ida Mae, 1AS	Post
Campbell, John, 2A	McAdoo
Campbell, Robert Allen, 2E	Odessa
Campbell, Robert Byron, 1E	Wildorado
*Campbell, Ruth, 4AS	Amarillo
Cannon, Orland, 1AS	Idalou
*Canon, Marjorie, 1HE	Sandersen
*Cantrell, Helen Anne, Grad	Plainview
Cantrell, James, 4AS	Plainview
Caraway, Doyle Edward, 2AS	Sherman
Cardwell, H. T., Jr., 3A	Vernon
Cardwell, Joe T., 1A	Vernon
Cargile, Victor Lee, 1AS	Lubbock
Carie, Tom, 1E	Lubbock
Carl, Eugene, 4AS	Waco
*Carle, Peggy Sue, Grad	Lubbock
Carlisle, Gordon, 4AS	Houston
Carlock, Watson, 3E	Lubbock
Carpenter, Rudolph, 1AS	Matador
Carr, E. H., 1AS	Glad
Carr, Galen M., 3E	Abernathy
Carr, Wendell, 1AS	Lubbock
Carradine, Douglas Gordon, 1A	Post
*Carroll, Mrs. Artie Bond, 4AS	Lubbock
Carroll, Cecil, 2A	Crowell
*Carroll, Louise, 2AS	Borger
*Carroll, Mary Helen, 3AS	Crowell
Carson, Willis T., 4AS	Austin
Carter, George Lynn, Grad	Lubbock
Carter, John Rolfe, 1A	Slaton
*Carter, Moncure, 3AS	Lubbock
Carter, Warren Reid, 3AS	Wichita Falls
Carter, Warren S., 1E	Crowell
Carter, William Horace, 2AS	Lubbock
*Cartrite, Elva, 2AS	Sunray
*Cary, Pearl, 2HE	Goldsmith
*Case, Frankie Mae, 4AS	Petersburg
Casey, Carl Henry, 1AS	Wolforth
Casey, Clyde, 1A	Hermleigh
*Casey, Dorothy Helen, 4HE	Wolforth
Casey, Jim Tom, 4E	Hermleigh
Casey, Scott, 4AS	Olney
*Casey, Winford Faye, 2HE	Hermleigh
Cash, Joe H., 3E	Denison
Cass, D. L., 3E	Post
Castle, David, 3E	Abilene
*Castle, Lila Erlene, 4AS	Knott
Castle, Robert Marvin, 2AS	Lubbock
*Castle, Ruth Paula, 1AS	Lubbock
Castleberry, H. Paul, 4AS	Dalhart
*Cate, Sidney Imogene, 1HE	Paducah
*Cates, Mrs. Alta Bowers, Grad	Lubbock
Cathcart, Oric, 2A	Lubbock
*Caulbe, Mildred Myrie, 1HE	Big Lake
*Caudie, Frances Vonnell, 3AS	Whiteface
Causey, Yeats, 1AS	Ozona
Caveness, Sherrell, Grad	Tahoka
*Caviness, Jamie N., 4A	Hurlwood
*Cayton, Pattie Jane, 1HE	Mart
*Cearley, Mrs. Alma Faye Rhea, 4AS	Levelland
Cearley, Alvin Glen, 4E	Lubbock
Cearley, Wayne T., 1E	Levelland
Chalk, John Rutledge, 3AS	Lubbock
Chalmers, J. Scott III, 3E	Sand Springs Okla.
Chambliss, Roy, 4AS	Brownfield
*Chance, Billie, 1AS	Lubbock
Chance, Edgar Earl, 3A	Lubbock
Chandler, John S., 2AS	Littlefield
*Chaney, Winona, 4AS	Winters
Chapman, David Hall, 4E	Lubbock
*Chappelle, Louise, 1HE	Lubbock
Chatham, Robert Hood, Jr., 2E	Ft. Worth
*Chauncey, Kathryn, 1AS	Lubbock
Cheaney, O. L., Jr., 1E	Santa Anna
Cheatham, Voorhees, 4AS	Abilene
Cheek, Donald Ray, 2AS	Hobbs, N. M.
*Cheek, Fannie Dale, 1AS	Tyler
Cheek, Jimmie Harold, 4AS	Hobbs, N. M.
Chenault, Charles, 3E	Wichita Falls
*Cherry, Betty, 2AS	Lubbock
Cherry, Herman Glyn, 1A	Lorenzo
Cherry, James, 1AS	Lubbock
Childress, Elliot, 3E	Lubbock
Chilton, Bert, 2AS	Odessa
Chisholm, Sam W., 3AS	Brownfield
Chisum, A. B., 1AS	Levelland
*Chitsey, Avon, 3HE	Roscoe
Choat, R. H., 1AS	Lubbock
Choat, Rufe Roy, 1A	Lubbock
Christian, James Vernon, 1A	Seagraves
*Christian, Mattie Lou, 4E	Big Spring
Christian, Sneed, 1E	Big Spring
Christian, Weldon, 3E	Big Spring
Christianson, L. C., 4E	Lubbock
*Christman, Edna, 4HE	Arlington
Church, M. C., 2A	Merkel
Claiborne, Sidney Carol, 1AS	Lubbock
*Clair, Virginia, 4AS	Wichita Falls
Claitor, Carroll, 4E	Petersburg
Claitor, Courtney David, 1AS	Petersburg
Clanahan, James Ross, 4AS	Amarillo
*Clapp, Guy Coleman, Grad	Levelland
*Clapp, Susanah, 1AS	Childress
*Clark, Anita, 4AS	Rails
*Clark, Bette Frances, 3AS	Canadian
*Clark, Betty, 2HE	Happy
Clark, Bill, 3AS	Lubbock
Clark, Clifton W., 4E	Wichita Falls
*Clark, Mrs. Frank (Mary Lois) 1AS	Lubbock
*Clark, James B., 1AS	Russ
*Clark, Martha Ann, 1AS	Waco
Clark, Neil, 3E	Amarillo
Clark, Paul, 2E	Abilene
*Clark, Theresa Imogene, 1AS	Carlsbad, N. M.
Clark, Walter T., Jr., 1AS	Lubbock
Clark, Weldon L., 4E	Wichita Falls
Clarke, D. G., 1A	San Antonio
Clarkson, Belmont, 2AS	Lubbock
*Clarkson, Velma, 2AS	Lubbock
*Clayton, Alva Jean, 1HE	Sudan
Cleckler, Waylon B., 3AS	Roscoe
Clement, Ernest, 3E	Valley View
Clements, Frank, 3E	Lubbock
*Clifton, Mary Jane, 1AS	Lubbock
Clinton, Thomas Leon, 1AS	Lubbock
Cloyd, A. E., Jr., 4AS	Plainview
Cloyd, Richard Lowe, 3AS	Plainview
Clyburn, Clyde Wesley, Jr., 1AS	Hawley
Coats, Charlie Boice, 4A	Lubbock
Coats, Jack, 1E	Lubbock
Cobb, Cleveland, 1A	Lubbock
Cocoughner, Ralph K., 1AS	Lubbock
Cochran, Jimmie, 1AS	Wellington
Cochran, Warren King, 1AS	Dallas
Cocke, Roland Thomas, 1E	Liberty
*Coe, Mary Jo, 4AS	Lubbock
Coffee, Creed Clyde, Jr., 1E	Big Spring
*Coffee, Sybil, 1AS	Vernon
Coffey, Wayne, 2E	O'Donnell
Coffey, Jeff, Jr., 3AS	McLean
*Coffey, Marianna, 2AS	Childress
Coffey, Romey John, 3AS	Crosbyton
Coffman, Bill, 2AS	Lubbock
Coffman, C. E., 1E	Ropesville
Coffman, Edwin, 1AS	Littlefield
*Coffman, Margaret L., 3HE	Littlefield
Coffman, Marian, 2AS	Lubbock
Coffman, Virgil Ewin, 1AS	Ropesville
Coffman, Wilburn, 1E	Lubbock
*Cogburn, Bonnie Faye, Grad	Lubbock
Cogburn, Harold Newton, 3AS	Lubbock
Cohn, Louie, 1AS	Borger
Coker, Douglas, 1AS	Muleshoe
Coker, R. Dennis, 2A	Turkey
Cole, David, 1AS	Lubbock

Cole, Joe Elmer, 2A	Jean
Coleman, Ben, Jr., 1AS	Seminole
Coles, Richard J., 2E	Higgins
Collier, Bob, 2AS	Ft. Worth
*Collier, Catherine Virginia, 4HE	Lubbock
*Collier, Frances, 1AS	Ralls
Collier, Gerald, 3E	Ralls
*Collins, Mrs. Gladys Douthitt, 4AS	Tahoka
Collings, J. F., 4AS	Lubbock
*Collingsworth, Mary Claire, 2AS	Okla. City
*Collins, Marie, 3HE	Rotan
Collins, Tom, Jr., 2AS	Channing
Collinsworth, J. D., 3AS	Borger
*Coltharp, Faye Pauline, 4AS	Slaton
Combs, Samuel A., 1AS	Wellington
*Comer, Alene, 3AS	Aspermont
*Cone, Annie Lee, 1AS	Lubbock
Conklin, Merlin, 2AS	Hereford
Conley, Ray, 3E	Borger
Connally, Keith, 1AS	Tahoka
Connell, Carl Gene, 2A	Lubbock
Connell, John William, 3A	Lubbock
Connell, W. E., 2AS	Shallowater
*Connolly, Ruth Joan, 2AS	Plainview
*Conner, Maxine, 2AS	Slaton
Conrad, Thomas Simmons, 2AS	Cuthbert
Condradt, F. W., Jr., 3A	Lometa
Condradt, J. C., Grad	Rotan
Cook, Adrain, 3AS	Post
Cook, Harvey Andrew, Jr., 1E	Colorado City
*Cook, Jane Joiner, 1AS	Plainview
*Cook, Kathryn, 3HE	Post
Cook, Loy, 1AS	Hereford
*Cook, Olen, 2HE	Post
*Cook, Pauline, 3HE	Littlefield
*Cook, Velma, 3AS	Lubbock
Cooke, William Thomas, 2E	McLean
*Coon, Maisie, 2AS	Lubbock
Coon, Ralph H., 4E	Lubbock
Cooper, Billy, 2E	Kermit
*Cooper, Evelyn, 2AS	El Paso
Cooper, J. Augustus, 4A	Roaring Springs
Cooper, Linn Samuel, 1E	Houston
*Cooper, Miriam, 3AS	Lubbock
Cooper, N. B., 1AS	Big Lake
Cooper, Stewart, 2AS	Abilene
Cope, Edward, Jr., 2AS	Monahans
*Copeland, Elizabeth, 4AS	Ropesville
Copeland, William Archie, 2AS	Lubbock
*Corbcll, Bess, 1HE	Post
*Corbin, Dolores, 1AS	Lamesa
*Corcoran, Dorothy Fay, 1AS	Lubbock
Corder, Fount, 5A	Uvalde
*Cornelius, Dorothy Lee, 1HE	Crosbyton
*Costolova, John Joe, 1AS	Spur
*Cotton, Willie, 1AS	Rockdale
Couch, Alfred Pierson, 4AS	Aspermont
*Couchman, Sue Belle, 4HE	Brownfield
Counts, Jim R., 3A	Rotan
Courson, William Hilton, 1AS	Dallas
*Covington, Vivian, 2E	Sudan
*Cowan, Emily Jane, 1HE	Spur
*Cowan, Ruth, 3HE	Spur
*Coward, Mrs. Roscoe, 3AS	Lubbock
Cowden, Courtney Holt, 2A	Midland
Cowden, Jack J., 3AS	Iowa Park
*Cox, Barbara, 3AS	Post
*Cox, Bernice, 2AS	Lamesa
*Cox, Bula Dee, 2HE	Kress
*Cox, Elnora, 2HE	Ralls
*Cox, Joanne, 4HE	Denison
*Cox, Jo Nell, 2HE	Lubbock
*Cox, Louise, 3HE	Woodson
*Cox, Mary Louise, 2AS	Ferris
*Cox, Norman Lee, 3E	Pampa
*Cox, Welby N., 1A	Pearland
Coyne, Clarence Woodrow, 4AS	Lubbock
Coyne, Lawrence, 4A	Lubbock
Cozzens, Wallis O'Dell, 1AS	Eldorado
Craddock, Bill Frank, 4A	Robert Lee
*Craddock, Maxine M., 1AS	Robert Lee
*Craig, Ruth, 4AS	Lubbock
*Cram, Betty Claire, 3AS	Dallas
*Cramer, Betty Jo, 1AS	Slaton
*Crane, Ann Adele, 2AS	Dallas
Craver, James Paul, 1AS	Yantis
Cravy, C. M., 4A	Spur
Cravy, Homer E., 2AS	Post
Crawford, Duffer Brooks, 4E	Haskell
*Crawford, Patti, 1AS	Abilene
Crawford, Paul B., 2E	Haskell
*Crawford, Thelma, 3AS	Olton
Creel, Tommy, 1AS	Seagraves
Creltz, Rex Edward, 2A	Adrian
Cromeans, John Sharpe, 4AS	Mexia
*Cromer, Layuna, 4E	Lubbock
*Cromer, Robert, 1E	Lubbock
*Cromer, Thelma Estelle, 2AS	Lubbock
*Crosby, Lois, 3HE	Wilson
*Crosley, June, 3AS	Plainview
Crosnoe, Ted, 1E	Crowell
*Cross, Dorothy Jo, 1HE	Waco
Crossen, Harold Samuel, 1AS	Dallas
*Crouch, Gertrude, 2AS	Dallas
Crow, Elven, 1E	Sudan
Crow, James Robert, 1AS	Hamlin
Crow, John Henry, 1AS	Silverton
Crow, O'Dell Anthony, 2E	Littlefield
Crowe, John, 1E	Raton, N.M.
Crowell, Ben Lee, 1AS	Wichita Falls
Crowell, Frank Hays, 4AS	Wichita Falls
Crowley, Alton Ward, 2E	Borger
Crume, Lyle L., 1AS	Levelland
Cudd, Warren, 2AS	Perryton
Culwell, Leslie, 1E	Henrietta
*Culwell, Mary Leslie, 2HE	Slaton
Cummings, John R., Grad	Byers
Cummings, Robert, 2E	Greenville
*Cummings, Una Faye, 3AS	Byers
Cunningham, Charles Leonard, 3A	San Angelo
Cunningham, Cora Nell, 3HE	Littlefield
Cunningham, Gerry, 2HE	Van
Cunningham, James Patrick, 1AS	Lubbock
*Cunyus, Martha, 1HE	Lockney
Cupp, Eugene, 2A	Earth
Cupp, Olen, 4A	Earth
*Curlee, Betsy Jane, 1HE	Ft. Worth
Currey, H. Ernest, 4AS	Wilson
Currey, Jake Lee, 3E	Wilson
Currie, Glen, 1A	Eunice, N.M.
*Curry, Bobbie, 1AS	Sanford
Curry, James Kenneth, 4E	Dalhart
Cypert, N. V., 1AS	McAdoo
Dacus, Jack, 2AS	Idalou
Daffern, Dan, 1E	Sweetwater
*Damron, Doris, 4AS	Crane
*Danford, Charlene, 1AS	Lubbock
Daniel, Arthur, 4AS	Marie
Daniel, Charles L., 3AS	Mineral Wells
*Daniel, Mary Katherine, 2AS	Floydada
Daniell, Charles B., 4AS	Brownfield
Daniels, W. R., 1A	Jayton
Danner, Juston, 4A	Farwell
Dansfield, Bill Bryan, 2E	Lubbock
*Darsey, Tommy, 1AS	Flom
Daugherty, Glen R., 1AS	Seymour
*Daugherty, Jo Ann, 1AS	Roscoe
*Dauley, Guinevere, 1AS	Ackerly
*Davenport, Anna Kathryn, 2AS	Memphis
Davenport, Tom O., 2E	Eastland
Davidson, Eugene Neil, 2E	Abernathy
Davidson, Glenn, 3E	Abernathy
Davidson, Joe H., 3AS	Lubbock
*Davidson, Martha, 2AS	Levelland
Davidson, Paul W., 2E	Dallas
*Davidson, Sammie Lou, 1HE	Levelland
*Davies, Christine, 1AS	Bovina
*Davies, Eulalie, 2AS	Southland
*Davis, Eutha, 1HE	Hedley
Davis, Foy, 3AS	Sulphur Springs
Davis, Garnett S., 3AS	Stanton
Davis, Geraldine T., 3AS	Lubbock
Davis, Glenn Earl, 2AS	Pampa
Davis, Grady, 1A	Brownfield
Davis, Jacqueline, 1AS	Hobbs, N.M.
Davis, James, 2A	Lubbock
Davis, Jimmie, 2E	Dallas
*Davis, Rita Zo, 3AS	Chillicothe
Davis, J. E., 3A	Lubbock
Davis, Robert H., 3A	Post
Davis, Troy Lee, 2AS	Lubbock
Davis, W. J., 1A	Abilene
*Daviss, Sara, 2AS	Lubbock
Dawdy, Alpha, 3E	Idalou
Dawley, James, 2E	Canyon, Miss.
Dawson, Edwin L., 2A	Tulia
Dawson, Floyd, 2AS	Bells
Dawson, R. B., Jr., 3A	Tulia
*Day, Ann, 3AS	Claude
*Day, Dorothy, 1AS	Lubbock
*Day, Fay, 1AS	Claude
*Day, Giles Warren, 2AS	Ft. Worth
*Day, Hazel E., 4AS	Brownfield
Day, James Woodie, Jr., 3A	Plainview

Day, Jimmy William, 2E	Lubbock
Day, Russell, 1A	Brownfield
*Day, Viola, 1HE	Slaton
Dean, Milton, 2A	Dawson
*Dean, Thelma, 2AS	McCauley
Deats, Hollis, 4E	Christoval
Deats, Robert Wm., 2A	Graham
DeBusk, Monroe, 1AS	Idalou
*Decker, Genevieve, 1AS	Childress
*Defenbaugh, Margaret, 4AS	Amarillo
Deinken, Herman Porter, 4A	Amistad, N. M.
*DeLong, Nell, 2AS	Mertzon
Dement, Marvin Ernest, 4E	Plainview
Dement, Ray, 3E	Leonard
*Dempster, Louise, 4AS	Hamilton
Denison, C. W., Jr., 2A	Floydada
Denman, Billie, 1AS	Lubbock
*Dennington, Aelva Ruedeen, 1AS	Lubbock
*Dennis, Mrs. Orian, 4AS	Littlefield
Denison, Benjamin Herman, Jr., 3E	Lubbock
*Denson, Margaret Jane, 1AS	Stamford
*Denton, Dolores, 2AS	Denison
Dettle, Jack Neff, 2A	Stratford
Devin, Albert, 2A	Tulia
Devin, Delbert Lee, 2A	Tulia
*Dickerson, Wilma Mae, Grad	Lubbock
*Dickinson, Hazel, 3AS	Lubbock
*Dickenson, Mary Elizabeth, 1AS	Roswell, N. M.
Dickson, James Wesley, 2A	Ropesville
Dickson, Joe A., 4E	Borger
Dickson, Robert Singleton, 1A	Ropesville
Diggs, Mary Eleanor, 4HE	Haskell
*Dillard, Catherine, 3AS	Ft. Worth
Dillingham, John Richard, 4AS	Santa Anna
Dillon, Joyce, 1AS	Henderson
*Diltz, Betty, 1AS	San Angelo
Dines, Dorothy Mae, 4AS	Ft. Worth
Dingus, George William, 4E	Munday
Dismuke, Morton Stanley, 1E	Steamboat Springs, Colo.
Dismuke, Stewart, 2AS	Steamboat Springs, Colo.
Ditmore, Frank, 4E	Lubbock
*Ditto, Ernestine, 2AS	Arlington
Dixon, James Luther, 1AS	Royce City
Dixon, Jim C., 1A	Farwell
*Dobbs, Doris, 3AS	Wichita Falls
Dodds, Cecil E., 2E	Decatur
*Dodge, Jenn Etta, 2AS	Big Spring
*Dodson, Billie Jo, 2AS	Chillicothe
Dodson, Max, 3A	Olton
Dodson, Oscar H., 2AS	Chillicothe
Dominy, John Earl, 1A	Ft. Worth
Donaghey, James W., 1E	Trenton
Donelson, Edward L., 4AS	Lubbock
*Donelson, Martha Jane, 4AS	Amarillo
*Donelson, Sue, 4AS	Lubbock
Donnell, Riley, 3E	Dallas
*Donnell, Waldeen, 3AS	Mexia
Doran, J. Buck, Grad	Lovington, N.M.
*Doran, Mrs. Ruby M., 4AS	Lovington, N.M.
*Dorenfield, Lutetia, 4AS	Austin
Dorough, Tom Tinsley, 4A	Mabank
*Doss, Eleanor, 4HE	Bonham
*Doss, Elizabeth, 4HE	Bonham
*Douglass, Emma Jean, Grad	Lubbock
Douglass, Joe, 1AS	Littlefield
Douglass, Tom, 3E	Corpus Christi
Douthit, Corbin, 4AS	Tahoka
Dover, Wade K., 4AS	Lubbock
*Dowell, Erlene, 2HE	Quail
Dowell, G. S., 1A	Quail
Dowell, Harlan, 3E	Lubbock
Dowell, Kenneth Paul, 3E	Lubbock
Doyle, Joe L., 3A	Shallowater
Doyle, Lonnie A., Jr., 1E	Anson
*Dozier, Cleith, 3HE	Sylvester
Dozier, Elton B., 1E	Midland
Drake, Cleve, 2E	Pampa
Drake, Joe Ben, 4E	Brownwood
*Draper, Jeanne H., 3E	Memphis
*Dreyer, Birdie, 2AS	Wilson
Driggers, Jimmy, 1A	Santa Rosa, N.M.
Driskill, John, 1E	Coleman
Driskill, Samuel LaFayette, 4AS	Baird
Druppleman, John Paul, 3AS	Midland
*Drumheller, Myra, 4AS	Whiteface
*Dry, Empress, 1AS	Rotan
Dyer, Hugh C., 2E	Lubbock
Dubberley, Jack Powell, 2AS	Lubbock
*Duckworth, Donna D., 4HE	Lubbock
*Duckworth, Helen, 2AS	Loving
Duer, Cornelius Earl, 4AS	Ft. Worth
*Duff, Helen, 1AS	Rotan
Duff, J. Ronald, 3E	Hillsboro
Duff, L. A., Jr., 1AS	Slaton
*Duff, Lydia Ann, 1AS	Lubbock
*Duggan, Elois, 4HE	Nocona
Duke, Kenneth, 1AS	Lubbock
DuLaney, Bowen, 2E	Stinnett
Dulaney, Eugene, 4AS	Lubbock
*Dunn, Nellie Jo, 3HE	Ablene
Duncan, Charles V., Jr., 2E	Osborn, Mo.
Duncan, George Charles, 4A	Lefors
Duncan, Robert, 3AS	Henderson
Dunigan, Boyce, 4AS	Ft. Worth
*Dunlap, Mrs. Wanda Welch, 2HE	Lubbock
Dunlap, William Dean, 3AS	Hereford
Dunlop, Harlan, 2A	Lubbock
*Dunn, Nellie Jo, 1AS	Brownfield
*Dunn, Virgella Nan, 1AS	Brownfield
*DuPre, Gene, 2AS	Wink
*Duren, Hillis Carmon, 1HE	Lakeview
*Durham, Annis, 2HE	Aspermont
*Durham, Eulene, 4AS	Snyder
Dvoracek, Charles Frank, 4A	West
Dyar, Charles, 2AS	Sweetwater
Dyer, Conrad Douglas, 2A	Springlake
Dyer, C. L., Jr., 1AS	Crosbyton
Dyer, Eby Byron, 1AS	San Angelo
Dyer, Ronald, 4AS	Mineral Wells
*Dyess, Nellie Maude, 1AS	Lubbock
Dyess, Thomas Raymond, 1AS	Lubbock
Dysart, Cabot, 2E	Wildorado
*Eades, Alma Rhea, 4HE	Lubbock
Eagan, Buford, 3AS	Olney
Easterwood, James Hardin, 4AS	Lamesa
Easterwood, John Edwin, 3E	Lamesa
Eastland, Harold, 3A	Hillsboro
*Eaton, Nola Fern, 3AS	Lubbock
*Eaves, Mrs. Luta, (C. D.), Grad	Lubbock
Eden, John Alvin, 3A	Rocky, Okla.
*Edgar, Mrs. Grace R., 4AS	Lubbock
Edgar, Verlon, 3AS	Whitharral
*Edgett, Helen Margaret, 3AS	Lubbock
Edgmon, Raymond Edward, 2AS	Okmulgee, Okla.
Edler, Gerald, 4AS	Crosbyton
*Edwards, Ara Sue, 1HE	Floydada
Edwards, Cledie Farlin, 1AS	Crosbyton
Edwards, Roy G., 2AS	Olton
Edwards, Sam Houston, 1AS	Slaton
*Elland, Maxine, 2AS	Munday
*Elland, Peggy Marie, 2AS	Lamesa
*Elland, Sarah Spikes, 1AS	Lamesa
Elder, Harold, 2AS	Cairo
Elkins, Van J., Jr., 3E	Richland
*Elliott, Anne Beatrice, 4HE	Anton
Elliott, Don Andrew, 4A	Shallowater
Elliott, George Wilson, 1A	Anton
Elliott, Glenn, 2AS	Albany
Elliott, Kent, 3AS	Lubbock
Elliott, Milton Howard, 1A	Shallowater
Elliott, Violet, 2AS	Cisco
*Elliott, Zelma, 4HE	Mobeetie
Ellis, Charles B., Jr., 3E	Ft. Worth
Ellis, C. W., 2E	Carlsbad, N. M.
Ellis, Eugene, 1AS	Anton
Ellis, Lewis, 2AS	Lubbock
*Ellis, Maxine Elizabeth, 3E	Clarendon
*Ellis, Willie Lou, 3AS	Lamesa
*Ellison, Lorene, 3HE	Aspermont
*Ellison, Roberta, 1HE	Lubbock
Elms, James Edward, 1A	Sudan
Elrod, Joseph, 2AS	Sweetwater
Elston, Freda, 1AS	Lubbock
Ely, John O., 2E	Monahans
*Emmett, Lois, 4AS	Roswell, N. M.
*Emmitt, Dorothy Lou, 3HE	Tulia
Emmitt, John Elbert, 2AS	Tulia
English, Hugh, 3E	Plainview
Ernst, Benhard Leon, 1A	Tahoka
Erwin, Elvis, 2A	Stanton
*Erwin, Pansy Jane, 1HE	Lubbock
Esbridge, Charles S., Grad	Lubbock
Esmond, Thomas Marlon, 2E	Ballinger
Essary, Andrew H., 4A	Morton
Esquivel, Leon, 1AS	Canadian
Estes, Aldredge, 3A	Midland
Estes, Bengy, 2AS	Memphis
*Etter, Gale, 1AS	Littlefield
Etter, Pat, 2AS	Shamrock
*Eubank, Geneva, 3AS	Idalou

Eubank, Verner Bryant, 1AS	Lubbock
*Eubank, Zelda, 2AS	Idalou
Eubanks, Aubrey Ercell, 3AS	Breckenridge
Eubanks, Dale, 2AS	Breckenridge
*Eudy, Emogene, 4AS	Morton
*Evans, Don Melba, 1AS	Tahoka
*Evans, Gladys Marie, 3AS	Shallowater
Evans, Jean, 1HE	Slaton
Evans, Jess Carl, Jr., 2AS	Merton
Evans, Lloyd C., 2AS	McLean
*Evans, Mary Helen, 2AS	Merton
Evans, Thomas Weldon, 4AS	Lubbock
Evans, Wilbur, 2E	Lubbock
Evaus, Winfield, 2E	Shamrock
Feverett, Jack, 2AS	Texarkana
*Evens, Fern Irene, 4AS	Sudan
Ewen, Edgar Russell, 1A	Estelline
Ewen, Gene, 1A	Estelline
Exum, Harold, 1A	Ralls
Ezell, R. B., 4A	Farwell
Fair, Charles Bernard, 3E	Odessa
Fairley, George Gladwin, 4E	Denison
Falls, Delbert W., 3E	Lubbock
Farmer, Cedric E., 2AS	Seymour
Farmer, Frank Edward, 1E	Odessa
*Farmer, Wynette, 2HE	Knox City
Farr, Billy, 2A	Collinsville
*Farrar, Opal, 4AS	Melrose, N. M.
*Farrell, Twila, 4AS	Muleshoe
*Farrell, Wanda, 1HE	Muleshoe
*Farrington, Betty Katherine, 1AS	Ft. Worth
Farrington, Harry, 2E	Ralls
Farris, Frank H., Jr., 1AS	Dallas
Farris, Garland, 2A	Sallisaw, Okla.
Farris, J. C., 3E	Iowa Park
Farris, Pat, 1AS	Lubbock
Farrow, Jack Byron, 2E	Lubbock
Faulkner, Rex, 4A	Quitaque
*Faust, Joyce Marilyn, 1AS	Wheeler
*Faust, Ruth Elise, 3AS	Wheeler
Faver, Ralph, 4A	Lubbock
Featherston, Billy M., 3AS	Petersburg
*Feece, Molly Anna, 3AS	Lubbock
Feesser, John Russell, 2E	Dallas
Feigenspan, E. Dennis, 2E	Roxana
Feller, Norman, 4E	Borger
*Felts, Bobbie, 3AS	Kirkland
Felts, Marvin Henry, 3AS	Carlsbad, N.M.
*Feltz, Maxie Elise, 1AS	Crowley
*Ferguson, Genevieve Charlsie, 4AS	Crowell
*Ferguson, Patsy Jean, 2AS	Handley
Fernandes, Waddell, 3AS	Odessa
*Finch, Frances Joyce, 4AS	Amarillo
Finley, Fred, 2AS	McDon
Finley, Gene, 1A	Lubbock
Finnell, Wayne, 3AS	Holliday
Finney, Herschel, 4E	Cheney, Kans.
Fires, A. J., 1A	Wellington
Fish, Hughes, 4A	Crowell
*Fisher, Anna Lee, Grad	Petersburg
Fisher, Ernest Lynn, 2E	Mulhall
Fisher, Horace Ernest, 1AS	Lubbock
Fisher, James Harvey, 1AS	Lubbock
*Fisk, Martha, 4AS	Amarillo
*Fite, Dorothy Faye, 1AS	Anton
Fitzgerald, Jack R., 1E	Sweetwater
Fitzpatrick, Betty Mae, 3AS	Kermit
Flake, Jack Thomas, 2AS	Lubbock
*Flanagan, Doralene, 1AS	Stanton
*Flanagan, Nell Frances, 1HE	Lubbock
Flanary, L. M., 4AS	Lubbock
Flenniken, Gordon, 2AS	Lubbock
Flowers, Herbert, 2A	Jacksboro
Flowers, Ray, 1AS	Ackerly
Flowers, Robert O. C., 1A	Big Spring
*Floyd, Ermadel, 2AS	McLean
*Floyd, Jane Ann, 2AS	Lubbock
*Floyd, Joyce Maurine, 1HE	Lubbock
Floyd, R. L., 3AS	McLean
Flusche, Raymond, 4AS	Electra
*Fly, Alta Ellen, 1AS	Hale Center
Fly, Anderson Billy, 1A	Hale Center
Flynn, John F., 2AS	Breckenridge
Flynn, Bill Max, 3E	Ft. Stockton
Foerster, Homer, 3AS	Vernon
Foerster, Leroy Wilton, 2E	Vernon
Fogle, David Anson, 1A	Prairieville
Foley, William Vance, 2E	Gouldsburg
Folk, Elmer E., 3AS	Marlin
Foncannon, Gareld, 4E	Mercedes
Foot, Norman C., 4E	Longview
Forbis, Allen C., 4AS	Lubbock
*Forbis, Dorothy Margaret, 4AS	Wellington
*Forbis, Wilma Ruth, 2AS	Wellington
Ford, Henry, Jr., 3E	Lockney
Ford, Mart, 2A	Ralls
*Ford, Maxine, 1AS	Lubbock
*Ford, Wynon, 2AS	Ralls
Forehand, Artie B., 4A	Lubbock
*Forgus, Lona Mae, 1HE	Crosbyton
Forman, Vernon, 1A	Anton
*Formby, Robena, 3HE	McAdoo
*Forsyth, Sallie Lynn, 2AS	Plains
*Forsyth, Kathryn, 1AS	Quanah
*Fort, Jo Jean, 2HE	Lubbock
Fortenberry, James Albert, Jr., 2AS	Lubbock
Foster, Bernard Rogers, Jr., 2AS	Goodlett
Foster, Charles, 1AS	Malakoff
*Foster, Dorothy Sue, 2HE	Slaton
Foster, Hardy Eddins, 2AS	Dickinson
*Foster, Helen Louise, 3HE	Lamesa
Foster, Joe Bob, 2AS	Lubbock
*Foster, Lois Irene, 3HE	Pampa
Foster, O. L., Jr., 1E	Brownfield
Fouts, A. T., Jr., 1A	Rule
Fouts, George William, 3AS	Haskell
*Fowler, Helen, 1AS	Fritch
Fowler, T. B., Jr., 2AS	Nocona
Fowlkes, Tommie Ferrell, 1E	Dimmitt
*Fox, Elisabeth, Grad	Lubbock
Fox, Harold Louis, 1A	Sudan
Fox, J. Garrett, 1AS	Lubbock
*Fox, Sara Beth, 1HE	Lubbock
Foy, J. A., 1A	Lubbock
Franks, Marvin, 1AS	Gatesville
*Frederick, George E., 2E	Dalhart
*Fredette, Sister Frances Therese, 1AS	Lubbock
Freeman, Charles A., 1E	Coleman
Freeman, James Ross, 1AS	Ft. Worth
Freeman, John C., 3AS	Lubbock
*Frey, Mrs. Pauline Gordon, 3HE	Lubbock
Frey, Wayne K., 3A	Lubbock
Fribberg, Floyd, Jr., 1A	Wichita Falls
Friddle, Herbert, 1AS	Pampa
Fritz, Vernon Thomas, 1E	Dallas
*Frye, Barbara, 2E	Lubbock
*Frye, Louise, 4AS	Hereford
*Fuessel, Irene, 2HE	Eola
*Fugate, Martha Sue, 4AS	Lubbock
Fugitt, Charles Marlon, 1AS	Greenville
Fulkerson, W. H., Jr., 1AS	Tahoka
Fullaway, Richard Merle Jr., 1E	Los Angeles, Calif.
Fullaway, Robert Wayne, 1E	Los Angeles, Calif.
*Fullbright, Patsy Marie, 3AS	Smithville
Fuller, Bill, 3E	Ft. Worth
*Fuller, Verda, 3AS	Jayton
Fulwiler, Wallis, 3E	Lubbock
*Furgeson, Lillian, 2AS	Lubbock
*Furr, Nita, 2AS	Borger
Gage, Rex A., 3AS	Decatur
*Gaither, Mary Elizabeth, 4AS	Ft. Worth
Galloway, Charles E., 2A	Olton
Gamble, J. W., 4AS	Lubbock
Gamble, Oris, 1A	Stratford
*Gamble, Virginia Belle, 1AS	Lubbock
*Gamblin, Geraldine, 3HE	Floydada
Gannaway, Bill W., 1A	Ablene
*Gant, Alice Arlene, 2AS	Ft. Worth
*Gantz, Bonnie Lou, 2AS	Dallas
Gardner, Tom, 2AS	Plainview
Gardner, Walter, 1A	Ropesville
Garland, W. Foster, 4E	Ft. Worth
Garmon, James Max, 2AS	Lorenzo
Garner, Carl R., 4E	Dalhart
Garner, Edwin Pruett, 4E	Dalhart
Garrard, Sam Houston, 1AS	Tahoka
Garrett, Jack Ewing, 3AS	Lubbock
*Garrett, Jeanne Maurice, 2AS	Dallas
*Garrett, Willie Bee (Sue), 2AS	Irving
Garrison, Howard Ray, 3E	Ft. Worth
Garrison, Louis, 2E	West
Garrison, Pascal, 1A	Silverton
*Garrison, Shirley L., Grad	Idalou
Garsek, Isadore, 4AS	Lubbock
*Gary, Frances Helene, 2AS	Ft. Worth
*Gary, Lula Margaret, 1HE	Petersburg
Gaston, Morris, 1AS	Lubbock
*Gathing, Emma Elvie, 4HE	Roscoe
Gauntt, J. L., 2E	Vernon
Gause, Eugene Lee, 3E	Lubbock

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Gay, Frank, 4E	Lubbock
Gearhart, Guy Charles, 1A	Lubbock
*Gee, Dollie, 1AS	Sweetwater
Geldmeier, Bernhardt L., Jr., 3E	Appleby
Gelin, Carl, 2E	Lubbock
*Gelin, Leona M., Grad	Lubbock
George, Jesse L., 2E	Wichita Falls
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George, Leland Edwin, 4AS	Lubbock
*George, Marie, Grad	Lubbock
*George, Morrine, 2AS	Lubbock
George, Norman L., 2A	Baird
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Geron, A. J., 4A	Ft. Worth
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Gerrells, Collin, 2E	Carlsbad, N.M.
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*Gholson, Elsie Irene, 4HE	Haskell
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Gibbs, Irbay A., 2AS	Teague
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Gibson, George Jr., 3E	Childress
*Gibson, Mary Dena, 1AS	Lubbock
Gibson, Truett, 1A	Lubbock
Giffin, Ray K., 4A	Sayre, Okla.
Gibson, Robert H., 4A	Lubbock
Gilbert, Bob F., 1E	Wellington
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*Gilbert, Elwanda, 1AS	Lamesa
Gilbert, W. B., 1AS	Flomott
Gilbreath, Byron, 3AS	Leon Junction
Gilbreath, Owen, 2AS	Floydada
*Gibby, Jane, 1AS	Ft. Worth
Giles, Jack Porter, 3AS	Lubbock
Gilliland, Dwite Marshall, 1AS	Midland
Gilliland, Stuart Bob, 1AS	Hereford
Gill, Preston, 3A	Groom
Gilleen, Elwood, 2E	Lubbock
Gillespie, Harold E., 2E	Lubbock
*Gillespie, Ruth, 2AS	Crosbyton
Gillett, Dan, 1E	Lubbock
Gilley, Gabe, 3AS	Whitehouse
Gilley, Thomas Lilley, Jr., 4AS	Whitehouse
*Gillham, Eleanor Ruth, 1AS	Brownfield
Gillham, Millard Albert, 3A	Hughes Springs
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Glasgow, Raymond, 2AS	Henrietta
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Glass, Leonard E., 1A	McLean
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Glover, Dale Redick, 1AS	Denison
Glover, Darrell, 1AS	Pecos
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Gober, Webb, 4A	Farwell
Goble, C. L., Jr., 1A	Swearingen
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Godfrey, Fike, 1AS	Spur
Godfrey, Reba Dee, 2AS	Dallas
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Golins, Mary Frances, 3HE	Burkburnett
Golden, Wendell Ray, 3A	Burkburnett
Gollnar, Richard, 1AS	Monahans
Gollnar, Charles, 3AS	McAdoo
*Golston, Mildred, 2AS	Goodlett
Golucke, Lanneau, 1E	El Paso
Gomez, Luis C., 2AS	Lubbock
*Goodie, Jo Bess, 2HE	Mt. Calm
Goodpasture, Maurice C., 4AS	Levelland
Goodrich, Raymond, 3AS	Amarillo
Goodwin, Eugene E., 3E	San Antonio
Goodwin, Newton, 1A	Hart
*Goodwin, Opal, 4AS	Borger
Goolsby, R. L., 1AS	Levelland
*Gooley, Sue Ann, 2AS	Lubbock
Gorder, John D., 2E	Greybull, Wyo.
Gordon, Crayton, 2AS	Lubbock
Gordon, Clovis Monroe, 2E	Arlington
*Gordon, Frances, 2AS	Anson
*Gordon, Ina Faye, 1AS	Lubbock
Gordon, Jack, 1AS	Lubbock
*Gordon, Mary Lou, 4AS	Slaton
Gore, Alfred H., 1A	Brownfield
Gosdin, Frank, 2AS	Lubbock
Gossett, Wm. Adair, 2AS	Lubbock
Gowen, Arlee Claud, 2AS	Lamesa
Grabber, Bill, 1AS	Slaton
Graf, Edward, 1AS	Vernon
Graham, Edwin Denton, 3E	Spur
Graham, Jack Taylor, 1AS	McAdoo
Graham, James, 4AS	Sweetwater
*Graham, Jessie Loraine, 2AS	Lubbock
Graham, Orval Louis, 3AS	Quitaque
Granados, Leandro Ramon, 1AS	Canadian
Granados, Louis R., 1E	Canadian
Granberry, Hugh Willford, 4E	Mt. Calm
Granger, Fred Poe, Jr., 1E	Garland
*Graves, Camille, 3HE	Crowell
*Graves, Frances, 1AS	Ft. Worth
*Graves, Frances Eileen, 2AS	Guthrie
Graves, Hauley, 1AS	Guthrie
Gray, Frank, 3A	Lubbock
Gray, Glen L., 1AS	Littlefield
Gray, Herbert M., 4E	Anton
*Gray, Margaret Ellison, 1AS	Snyder
Gray, Murray, 4AS	Snyder
Gray, Rena, 1AS	Gorman
Gray, Wallace Eugene, 1E	Sherman
Graydon, Frank D., 4AS	Lubbock
Grayum, Pete, 3E	Paducah
Grebing, Henry J., Jr., 2E	Mentone
Green, Cecil Edward, 2A	Bridgeport
Green, Chester, 1AS	Mobeetie
Green, Frank J., 4A	Littlefield
*Green, Mrs. Helen Ross, 4HE	Austin
Green, Jack, 3AS	Lamesa
*Green, Lorene, 4HE	Bridgeport
Green, Tom W., 4A	Albany
Green, Wesley Maldon, 1E	Wellington
Greene, Charles R., 2E	Dallas
Greene, GERALD, 4AS	Snyder
*Greer, Dan Geraldine, 2AS	Lubbock
*Greer, Joydene, 3HE	Carbon
*GREGG, Allison Gail, 2AS	Borger
Gregg, Guion, Jr., 4E	Dallas
Gregory, Hayden, 4E	Lubbock
Gregory, Howard R., 2A	Lubbock
*Gregory, Naydeen, 1AS	Idalou
*Gresham, Frankie, 4HE	Newlin
*Gresham, L. B., 1HE	Newlin
Grider, Arthur P., 1AS	Leonard
Griffin, Eddie Waymon, 3E	Childress
Griffin, Etchel Earl, 4E	Childress
Griffin, Fred, Grad	Lubbock
*Griffin, Georgia, 1HE	Big Spring
Griffin, Henry C., 2E	Galveston
*Griffin, Irma Mae, 3HE	Childress
Griffin, William, 3A	Sylvester
Griffis, Henry H., 3AS	Dallas
*Griffith, Dorine, 3HE	Lockney
Griffith, James William, 1E	Dallas
*Griffith, Ruth, 1AS	Loraine
Grigg, Jack Clifton, 4E	Tulia
*Griggs, Barbara Jeanne, 2AS	Wink
Griggs, C. J., 3E	Lubbock
*Griggs, Virgie Mae, 2AS	Lubbock
Grimes, C. H., 1A	Galveston
*Grimes, Dorothy Mildred, 1AS	Claude
Gripp, Milton Glenn, 1AS	Conway
Grisham, Hazel, 1HE	Littlefield
Grissom, Kenneth, 4A	Farwell
*Grissom, Minnie Kate, 1HE	Littlefield
Groves, Elton, 2A	Benjamin
Gruben, William Charles, 3AS	Spur
Gunter, Jack, 1A	Balmorhea
Gunter, James Harley, 1A	Conway
Gunter, Nat, Jr., 3E	Balmorhea
Haberer, Earl Roger, 1AS	Dimmitt
*Haberer, Elsie Dale, 3HE	Muleshoe
Hackler, Lee Henry, 4AS	Oakley, Kans.
*Haddick, Edith Cavell, 2E	Petersburg
Haddock, Warren, 4A	Lubbock
*Haffey, Betty Jean, 3HE	Lubbock
Hagan, Marian, 2AS	San Angelo
Hahn, Lloyd, 4A	Lamesa
Hailley, Buford, 4A	Red Springs
Halbert, Kenneth, 2A	Foard City
Hale, Billy E., 1AS	El Paso
Hale, Claude L., Grad	Lubbock
Hall, Joe Jack, 2AS	Quanah
Hale, J. S., Jr., 4A	Floydada
Hale, Leon, 2AS	Eastland
Haley, Duane, 3E	San Angelo
Hall, Albert T., 2AS	Lubbock
Hall, J. A., Jr., 2E	Lubbock

Hall, Jack C., 2AS	Quitaque	*Hatcher, Averlyne Marie, 1AS	Lubbock
Hall, Jack E., 2E	Perryton	Hatcher, Bill, 4AS	Lubbock
*Hall, Lucille, 1AS	Lubbock	Hatcher, Holmes, 4AS	Lubbock
*Hall, Marie, 1AS	Quitaque	Hatcher, Loyd, 4AS	Bellevue
Hall, Robert Polk, 2A	Quitaque	*Hatcher, Ruth, 3AS	Dallas
*Hall, Sarabel, 3AS	Ft. Sumner, N. M.	Hatchett, Don, 3AS	Lubbock
*Hall, Sara Nell, 4HE	Sweetwater	Hatfield, Clive, Jr.	Sherman
*Hall, Virginia, 2HE	Lubbock	Hauk, Booth, 1AS	Donora, Pa.
Hall, Wayne, 4E	Lubbock	Hausler, Ben Eiton, 4AS	Wichita Falls
*Hall, Mrs. Willie Marie, 3HE	Lubbock	Hausser, Anthony F., 1E	Mazatlan Sinaloa
Halliburton, Victor H., 1AS	Booker	Havens, Argus Edwin, 2AS	Paduach
Halsell, Oscar Ed., 3E	Lubbock	Havens, Tull, 2E	Lubbock
*Hamill, Christine, 3AS	Lubbock	Haverstock, Guy H., 1AS	Floydada
*Hamill, Gloriadine, 1HE	Levelland	Havis, Ralph, 3A	Lubbock
*Hamilton, Beth, 1AS	Brownfield	Havran, Bernard Frank, 1AS	Silverton
Hamilton, Charles, 2AS	Brownfield	Havran, Edward F., 2A	Knox City
Hamilton, Edward Murrell, 1E	Lubbock	Hawes, Charles, 2AS	Lubbock
*Hamilton, Frances, 4AS	San Angelo	Hawkins, Bill, 1AS	Skellytown
Hamilton, Howell Matson, 3E	Liano	*Hawkins, Dorothy, 1AS	Lubbock
Hamilton, James Reece, 4AS	Electra	*Hawkins, Marydel, 1HE	Morton
*Hamilton, Margaret Louise, 3E	Lubbock	Hayden, William Thaddeus, 3A	Pickton
*Hamilton, Margie, 2HE	Colorado City	Haynes, J. W., 1AS	Fluvanna
Hamlet, Jim, 3AS	Coffeyville, Kans.	*Haynes, Mary Carolyn, 2AS	Lubbock
Hamm, Bill, 4E	Misson	Haynie, Robert Clifton, 3AS	Lubbock
Hamman, Blake, 1E	Ft. Worth	*Hays, Mrs. Addie Jane, 4AS	Lubbock
*Hammonds, Gloria, 2AS	Floydada	*Hays, Billy Lou, 1HE	Snyder
Hammond, Howard Elliott, 1AS	Moran	Hays, David Noel, 1A	Olney
Hammond, Jack, 1AS	Dallas	Hays, Gerald, 3E	Lubbock
*Hampton, Beth, 2AS	Plainview	Hays, James S., 3E	Lubbock
*Hampton, Frances Margie, 4AS	Pampa	Hayter, Byron, 2E	Greenville
Hancock, Billy, 3A	Tahoka	Hazelton, Oliver, Jr., 4E	Loving
Hancock, Jack, Grad	Tahoka	Head, Ardath, 2AS	Lubbock
Hanks, Raymond Edwin, 2AS	Ft. Worth	Head, Garland Monroe, 1AS	Hollene, N. M.
Hanes, L. C., 3AS	Wink	*Head, Mildred, 3AS	Lubbock
Haney, William D., Jr., 3E	Lubbock	Headrick, Robert Earl, 1A	Sweetwater
*Hankins, Lois Mildred, 3HE	Lubbock	Headstream, Willie Ralph, 4AS	Roby
Hanks, Wyatt, 3AS	Brownfield	Heard, Howard, 2E	Brownwood
Hanley, Fiske, 3E	Ft. Worth	Hearn, H. D., 1AS	Perryton
*Hannon, Sarah, 1HE	Vernon	Hearn, Milly Arlen, 1AS	Cuthbert
Hanshu, Carl, 4A	Darrouzett	Heath, Edgar Howard, Jr., 2E	Vernon
Hanson, Harvey, 1A	Lamesa	*Heath, Louise, 2AS	Brownfield
Harbin, J. B., 4A	Levelland	Heath, Parrish Richard, 3AS	Lubbock
Harbin, Joe H., 1A	Levelland	*Heatley, Beatrice, 3HE	Lubbock
*Harbin, Robin Lee, 2HE	Levelland	Heatley, W. Lee, 4E	Lubbock
*Harblson, Roburta, 2AS	Lubbock	Hedges, J. P., 3A	Seminole
*Hardin, Margaret Jean, 1AS	Munday	Hedrick, George, 1E	Clovis, N. M.
Hardin, Neil Worth, 2AS	Pettit	Hedrick, Walter Russell, Jr., 3E	Lubbock
Hardin, Rex, 1AS	Pettit	*Heggen, Garnette, 1AS	Abernathy
Harding, G. W., 4A	Byers	Heidel, William O., 1AS	Lovington, N. M.
*Harding, Kathryn, 3AS	Byers	Heinemann, James Jon, 2AS	Ft. Worth
Hardy, Douglas Manning, 2AS	Lubbock	Heller, Raymond E., 4E	Happy
*Hardy, Mary E., 3AS	Childress	Helms, Eddie, 1AS	Brownfield
Hargrove, Robert, 2A	Roby	Hembree, J. C., 1AS	Borger
*Harless, Nova Louise, 2AS	Baileyboro	Hembree, Thomas, 3E	Margaret
Harman, Harlan, 1E	Winters	Hemby, J. L., 4A	Sweetwater
*Harmon, Kathrine, 3HE	Lubbock	Hemphill, Henry, 1E	Rankin
Harmonson, Peter, 4E	Big Spring	Henard, Robert, 4A	Plains
*Harp, Dorothy Jean, 3AS	Matador	*Henderson, Allie, 4HE	Farwell
Harp, Norman Alvie, 1AS	Matador	Henderson, Charlie, 2E	Dallas
*Harper, Eugenia, 3AS	Lubbock	Henderson, Dale, 1AS	Higgins
Harper, Merrell, 2E	Post	Henderson, Dot, 4AS	Shallowater
Harper, Sidney Douglas, 2A	Floydada	*Henderson, Katherine, 2AS	Hamilton
Harrell, John Neill, 2A	Lubbock	Henderson, Scott, Jr., 2AS	Quanah
Harris, Charles, 2E	West	Hendrick, Ross, 4E	Hart
Harris, Clark Hall, 2AS	Burlingame, Calif.	Hendryx, Marshall, 1AS	Lubbock
Harris, Claude, 4A	Roby	*Hennington, Hope, 1AS	Slaton
*Harris, Dorothy Gladys, 3HE	Lubbock	Henry, Jack Nicholas, 1AS	Lorenzo
Harris, Ed M., 2AS	Denison	Henry, Lester, 4A	Roby
*Harris, Fanibeth, 4AS	Garland	*Henry, Phyllis, 3AS	Iraan
Harris, Francis Neal, 3E	Snyder, Okla.	*Henry, Ruth, 4AS	Lorenzo
Harris, Francois Ellis, 1A	Merkel	Hensley, Homer Lenard, Jr., 2AS	Lubbock
Harris, Jack, 4A	Haske.l	Hensley, James H., Jr., 2AS	Penwell
Harris, Leon E., 4AS	McCamey	*Hensley, Pauline, 1AS	Lubbock
Harris, L. G., 3E	Priona	*Henson, Audentia, 4HE	Farwell
*Harris, Marguerite, 3AS	Lubbock	Henson, Herman Jr., 1A	Farwell
Harris, Richard Clayton, 4AS	Ralls	Henson, Maggie Lorene, 4HE	Meadow
Harris, Roy, 1AS	Brownfield	Henson, T. A., 2AS	Littfield
Harris, Silva, 1AS	Ackerly	Herald, Rollin T., 4AS	Austin
*Harris, Sybil Letitia, 3HE	Abilene	Herbert, Frances Ruth, 1AS	Dallas
Harris, Weldon, 2E	Melvin	Herbst, Joe E., 3E	Borger
*Harrison, Lora B., 1AS	Lubbock	*Hereford, Ruth Cook, 1AS	Lubbock
Hart, Jack L., 2E	Ranger	Hergert, Vernon, 1E	Perryton
*Hartley, Calla Rose, 3AS	Lometa	Herrick, William Charles, 1AS	Glassport, Penn.
*Hartsell, Lettie Yvonne, 3HE	Magnolia, Ark.	Herrin, Alden, 1AS	Anton
Harvel, Hoyt, R., 4A	Lubbock	Herring, Benjamin Franklin, Jr., 3AS	Lubbock
*Harvey, Mrs. June Guinn, Grad	Lubbock	Herring, Lee Durward, 4AS	Mineral Wells
*Harvey, Lucy, 1AS	Lubbock	*Herring, Martha Jane, 3AS	Hillsboro
*Hasehoff, Dolores, 4HE	Dallas	*Herring, Mary, 2AS	Knox City
Hash, Edgar, 3E	Levelland	Herron, Lewis Calvin, 4A	Archer City
Haskins, Rayburn Harold, 2E	Wolforth	Hervey, John Warren, 1E	Greenville
Hasson, Richard Carvel, 1AS	Lubbock		
Hastings, Henry Roy, 3E	Hereford		

*Hess, Jane, 1HE	Lubbock
*Hess, Peggy, 2HE	Lubbock
*Hester, Lucille, 3AS	Bryson
*Hester, Neyland, 1AS	Bovina
*Hlatt, Dean Robert, 1AS	Lubbock
*Hickman, Bill Dick, 3E	Coleman
*Hickman, Verna Mae, 1HE	McAdoo
*Hicks, Harvey R., 1AS	Colorado City
*Hicks, Patti, 1AS	Snyder
*Hicks, Tommy, 1AS	Brownfield
*Hieronymus, Billy M., 3AS	Temple
*Higgins, Hilton, 1A	Hereford
*High, James Griffin, 4AS	Stamford
*Hightower, Billie, 4HE	Henrietta
*Hightower, Francis Earl, 2AS	Amarillo
*Hilbers, Bernadine, 2HE	Lorenzo
*Hilburn, Marjorie, 1HE	Roby
*Hildreth, Wayne Pershing, 4A Fairview, Okla.	Vega
*Hill, Ben, Jr., 2AS	Lubbock
*Hill, Betty Kathryn, 1E	Dallas
*Hill, Jane, 4AS	Dallas
*Hill, John, Jr., 4AS	Midland
*Hill, Kathryn, 1AS	Pearland
*Hill, Milton D., 4AS	Lubbock
*Hill, Mozelle, 2AS	Morton
*Hill, Nell, 4HE	Lubbock
*Hill, Paul, 3E	Nocona
*Hill, Wade, 2AS	Brownfield
*Hilliard, Virginia Ann, 3AS	Lamesa
*Hills, Margery Link, 3AS	Lubbock
*Hilton, Wayne Arvis, 2AS	Lamesa
*Hinch, Aline, 1AS	Odessa
*Hinch, Kemp Henry, 1AS	Odessa
*Hinchey, Gerald William, 4AS	Lubbock
*Hinds, Jeanne, 2AS	Ft. Worth
*Hinson, Mary Louise, 1HE	Spring Lake
*Hittson, Billie June, 3AS	Sweetwater
*Hobbs, Lyndon Vernon, 1AS	Amarillo
*Hobgood, Chesley Glenn, 1A	Ropesville
*Hobgood, Edward G., 1AS	Lubbock
*Hobson, Charles Rex, 2AS	Mescalero, N.M.
*Hoch, Lois Caroline, 2AS	Bryson
*Hochstein, Geraldine Martha, 4HE	Nazareth
*Hodge, Clodell, 1HE	Sudan
*Hodges, Adeline, 3AS	Abernathy
*Hodges, Billie Katherine, 4HE	Childress
*Hodges, Elton Henry, 2AS	Lubbock
*Hodges, Harold, 1A	Abernathy
*Hodges, Orella, 4HE	Sterling City
*Hofackett, Owen, 2AS	Levelland
*Hoffman, Charles Pendleton, 1AS	O'Donnell
*Hoffman, Claude Christian, 4A	Paint Rock
*Hoffman, Elma Olivia, 1HE	Paint Rock
*Hofues, Frank S., 3AS	Dallas
*Hogan, Virginia Ruth, 2AS	Lubbock
*Hogg, Gracie Mae, 4HE	Lamesa
*Hogg, Rachel, 3HE	Lamesa
*Holden, Mrs. Frances Mayhugh, Grad.	Lubbock
*Holden, Mary Edith, 2AS	Clyde
*Holder, Louie, 3AS	Vernon
*Holland, J. B., 1E	Childress
*Holland, Ruth, 4HE	Lubbock
*Holley, Merl E., 2A	Paducah
*Holley, Moody Jack, 1E	Lubbock
*Holleyman, J. Bradford, 3E	Gladewater
*Holloman, Jean, 1AS	Muleshoe
*Holloway, Annabelle, 2HE	Lubbock
*Holloway, Leon, 1AS	Lubbock
*Holloway, Robert J., 4A	Tahoka
*Holman, George E., 1E	Lubbock
*Holman, Jane, 2AS	Seymour
*Holman, Tommie Nell, 1HE	Hamlin
*Holmes, T. H., Jr., 2AS	Rails
*Holt, Aubrey Lee, 4A	Cisco
*Holt, C. Zeno, 3AS	Gruver
*Holt, Delton, Jr., 1AS	Becton
*Holt, Jacqueline, 1AS	Brownfield
*Holt, Mary Nell, Grad	Lubbock
*Holt, William Decosta, 4AS	Slaton
*Holton, Richard Bailey, 1AS	Spearman
*Honea, Elmont, 4A	Tulla
*Hooser, Pauline, Grad	Seymour
*Hoover, Winnie Jo, 4AS	Plainview
*Hoover, Jack, 2A	Post
*Hope, Harold W., 2E	Borger
*Hope, Lannes, 2E	Lubbock
*Hope, Shannon, 1AS	Lubbock
*Hopkins, Christine, 4HE	Byers
*Hopper, McKinley Dirvin, 1AS	Mentone
*Hopping, Doris, Grad	Lubbock
*Horn, Frank, 1E	Lubbock
*Horn, Katherine Osler, Grad	Lubbock
*Horn, Roy M. Jr., 2AS	Phillips
*Horn, Truman, 1E	Midland
*Horne, Morrisette Wm., 3A	Quanah
*Horne, Shaffer Evatt, 4E	Cisco
*Horner, Alfred Bradford, 2E	Hallsville
*Horner, Lillian, 3AS	Wink
*Horton, Perry, 3AS	Big Spring
*Horton, Preston, 1A	Hermleigh
*Hothan, Billy B., 1AS	Ovalo
*Houchlin, Maxine, 1HE	Lefors
*Houlette, Ted, 1AS	Friona
*House, Kathleen, 3AS	Roby
*House, Marvin K., Jr., 1AS	Big Spring
*Housewright, Wilson, 4AS	Wylie
*Houston, Buster Victor, 4AS	Ft. Worth
*Houston, Cecil L., 2E	Dallas
*Houston, Nade, 1E	Wichita Falls
*Houston, Olin Rolland, 2AS	Ft. Worth
*Houston, Sammie, 1E	Slaton
*Howard, Diamond, 1AS	Silverton
*Howard, Eleanor Mae, 1AS	Plainview
*Howard, Harvey Leroy, Jr., 3E	Floydada
*Howell, Clifford, 1AS	Balling
*Howell, Doris, 3HE	Post
*Howell, James Milton, 1A	Kamay
*Howell, Sam Wade, 3E	Tahoka
*Hubbard, Chester Burl, 1AS	Lubbock
*Huddleston, Jane, 1AS	Crosbyton
*Huddleston, Milla Raye, 1AS	Crosbyton
*Hudson, James R., 1E	Lubbock
*Hudson, Virginia, 4AS	Novice
*Hudson, Weldon, 1A	Merkel
*Huff, Mrs. C. L. (Anna Lou), 4AS	Hart
*Huff, Clayton W., Jr., 2E	Morton
*Huff, Elaine, 3HE	Silver City, N. M.
*Huff, Olive Rebecca, 3AS	Lubbock
*Huffaker, Maurice, 2AS	Wilson
*Huffman, James W., Grad	Lubbock
*Hufstader, Onita Belle, 3AS	Lubbock
*Hughes, Comora Kathryn, 2AS	Merkel
*Hughes, Hazel, 1HE	Slaton
*Hughes, Irene, 4HE	Higgins
*Hughes, LaVerne, 4HE	Merkel
*Hughes, Lewis C., 2AS	Graham
*Hughes, Margaret Virginia, 4AS	Levelland
*Hughes, Robert Leon, 1AS	Lubbock
*Hughes, Tommy, 1AS	Trenton
*Hughes, Voia Maye, 2AS	Slaton
*Hughey, Marion, 1A	Roby
*Hull, Lewis Eldon, 1A	Big Spring
*Hulse, Charles Eugene, 3A	Floydada
*Humphreys, James O'Neill, 1A	Kansas City Mo.
*Humphries, Willouise, 2AS	Lubbock
*Hundley, James, 3E	Post
*Hunsucker, Kara, 2AS	Matador
*Hunsucker, Marie, 1AS	Matador
*Hunt, Dick Howard, 2AS	Guyman, Okla.
*Hunt, Elba Glendon, 3E	Dodson
*Hunt, June Melvin, 2E	Lubbock
*Hunt, Walter H., 2E	Claude
*Hunter, Mrs. Frank, 1HE	Lubbock
*Hunter, Hallie Olen, 2HE	Lubbock
*Hunter, James William, 2AS	Coahoma
*Hunter, Marvin, 3AS	Merkel
*Hunton, Leroy, 1AS	Cloviss, N. M.
*Hurlbut, Lanell, 2AS	Lubbock
*Hutcherson, Athalee, 1AS	Memph's
*Hutchings, Daphene, 4AS	Dimmitt
*Hutchings, G. B., 3E	Oney
*Hutchinson, Mary Virginia, 4AS	Lubbock
*Hutchinson, Tom N., Grad	Lubbock
*Hutto, Mrs. Oneida Reding, 4HE	Lubbock
*Hyatt, Ima Jean, 4AS	Carbon
Igo, Norman, 2E	Rails
Imboden, Wiley Pool, 1AS	Afton
Ingram, Charles, Jr., 2E	Mexia
Ingram, Thomas M., 4A	Idalou
Ireton, Elmer Taylor, 2E	Lamesa
Irons, Edwin H., 3AS	Paducah
*Irvin, Lols Jane, 1AS	Atasca
*Irvin, Randall C., 1AS	Floydada
*Isaacs, Lyndon, 1AS	Eldorado
*Isabell, Bernetta Louise, Grad	Plainview
*Isler, Roy, 3A	Forrest, N. M.
*Izzard, Wesley Robert, 1AS	Amarillo
*Jaccard, Jacqueline, 2AS	Lubbock
*Jackson, Albert Lea, 3E	Whitewright
*Jackson, A. L., Jr., 1AS	Spearman

*Jackson, Mrs. Bennie Floyd, 4AS ..	Lubbock
Jackson, Bertell, 2AS ..	Lubbock
Jackson, C. T., 4AS ..	Lorenzo
*Jackson, Jean, 3AS ..	Abernathy
*Jackson, Joe B., 1AS ..	Lubbock
Jackson, Leete, 1AS ..	Lubbock
*Jackson, Marjorie, 4AS ..	Roaring Springs
Jackson, Oliver, 4AS ..	Abernathy
Jackson, Reuben, 1AS ..	Dallas
Jackson, Rex R., 4AS ..	Tahoka
Jackson, Robert Earl, 1E ..	Phillips
*Jackson, Stella B., Grad ..	Lubbock
Jackson, Thomas Glenn, 2AS ..	Lubbock
*Jackson, Virginia, 1AS ..	Lubbock
Jackson, William B., 3AS ..	Carbon
Jacobs, Charles Edwin, 2AS ..	Lamesa
*Jacobs, Doris, 1AS ..	Lubbock
Jacques, Lamar, 1AS ..	Dalhart
Jaggers, Billie B., 4AS ..	Morton
*Jaggers, Mrs. Ella Kate, 3AS ..	Talco
Jaggers, Zack, 4A ..	Talco
James, Ernest, 1AS ..	Pampa
James, Gearld Leslie, 1AS ..	Earth
*James, Pauline, 1AS ..	Littlefield
James, W. E., Jr., 3AS ..	Pampa
Jameson, Elmer Gene, 1E ..	Matador
Janes, Dodson, Jr., 3E ..	Lubbock
Jansen, Leonard L., 2AS ..	Amarillo
Jarrett, Alexander E., 3AS ..	Temple, Okla.
Jarrett, Claude Earl, 2AS ..	Lubbock
Jarrett, Robert (Pat), 1AS ..	Temple, Okla.
*Jarrott, Helen, 2AS ..	Lubbock
*Jarrott, Mary, 3AS ..	Lubbock
Jarvis, Irby, 1AS ..	Sweetwater
Jasper, Walter E., 4E ..	Grapevine
Jay, James Wallace, 2A ..	Jayton
Jay, Jimmie, 2AS ..	Sweetwater
Jefferies, Robert A., Jr., 4AS ..	Hale Center
*Jeffreys, Dorothy Jane, 1AS ..	Lubbock
Jenkins, Betty Jean, 1AS ..	Lorenzo
*Jenkins, Clothille, 2AS ..	Levelland
Jenkins, W. Loyd, 3E ..	Amarillo
*Jennings, Marion, 2HE ..	Coleman
*Jennings, Ruth, 4HE ..	Davilla
*Jerman, Iris, 4AS ..	Amarillo
Jobe, Charles L., 1AS ..	Slaton
Johns, Charles, 1E ..	Decatur
Johns, John H., 3AS ..	Shallowater
Johnson, Craig, 3AS ..	Hedley
Johnson, Dan Collins, 1AS ..	Lubbock
*Johnson, Gladys, 2HE ..	Brownfield
Johnson, Granville Jr., 4AS ..	Lubbock
Johnson, Harold K., 3AS ..	Pt. Worth
Johnson, Jesse M., Grad ..	Lubbock
*Johnson, Johnnie Mae, 4AS ..	Lubbock
Johnson, Julia Ellen, 4AS ..	Post
*Johnson, LeDoris, 3AS ..	Lubbock
Johnson, Lewis Hamilton, 3E ..	Dallas
*Johnson, Louise, 1AS ..	Turkey
Johnson, Marshall Alva, 1AS ..	Lubbock
*Johnson, Mary Helen, 4HE ..	Dalhart
*Johnson, Naomi, 4AS ..	Lubbock
*Johnson, Nell Arnett, 1AS ..	Lubbock
Johnson, Ober Vaughn, 4E ..	Haskell
Johnson, Philip, 4E ..	Brownwood
Johnson, Ralph Hansford, 4E ..	Haskell
Johnson, R. C., 4AS ..	Lubbock
Johnson, Robert S., 1E ..	Dallas
Johnson, Rogers William, 3E ..	Overton
Johnson, Roy, 1A ..	Goldsmith
Johnson, Sam B., 4AS ..	Lubbock
Johnson, William Glenn, 2AS ..	Dalhart
*Johnson, Aida Doris, 2AS ..	Abernathy
Johnson, Bruce, 2AS ..	Graham
Johnson, Joe Bob, 3AS ..	Lubbock
*Johnson, Jozelle, 2AS ..	O'Brien
Johnson, Louie, 4AS ..	Lubbock
*Johnson, Mary Jane, 1AS ..	Graham
Johnson, Oulda, 2HE ..	Eskota
Johnson, Ralph C., 4A ..	Floydada
Johnson, Richard W., 3AS ..	Graham
*Johnson, Roberta Nell, 3HE ..	Eskota
Jolly, Finis, 1E ..	Bellevue
*Jones, Billie Jo, 1HE ..	Lubbock
Jones, Charles William, 3E ..	Lubbock
Jones, Dalton Thomas, 1AS ..	Floydada
Jones, Dick, 2AS ..	Colorado City
*Jones, Dorothy Sterline, 2AS ..	Lubbock
*Jones, Earlene, 2AS ..	Brownfield
*Jones, Evelyn, 1AS ..	Brownfield
Jones, Everett, 4AS ..	Ashland, Kans.
Jones, Forrest N., 2E ..	Olton
Jones, Forrest Winford, 4A ..	Lubbock
*Jones, Mrs. Frantom Eaton, 4AS ..	Fort Davis
Jones, Fred V., Jr., 1A ..	Colorado City
Jones, Gene, 2A ..	Loving
Jones, Grover, 4AS ..	Ft. Davis
Jones, Henry Preston, 1AS ..	Big Spring
Jones, Joe King, 1E ..	Lubbock
*Jones, Joni Lu, 4AS ..	Stanton
*Jones, Julia, 1AS ..	Lubbock
Jones, Lewis G., 4AS ..	San Angelo
*Jones, Louise, 2AS ..	Tulia
Jones, Marion Luther, 3A ..	Linden
*Jones, Modane Mildred, 1AS ..	Lamesa
Jones, Morris Hopkins, 4AS ..	Lubbock
Jones, Norman, 2A ..	Loving
Jones, Rance, 4AS ..	Megargel
Jones, Randall, 3AS ..	Perryton
Jones, R. D., Jr., 1A ..	Brownfield
Jones, R. E., 1AS ..	Lubbock
Jones, R. E., Jr., 2E ..	Lubbock
Jones, Roger R., 3AS ..	Morton
*Jones, Sarah Virginia, 2AS ..	Lubbock
*Jones, Virginia Rose, 2AS ..	Cleburne
Jones, Wayne, 4E ..	Lubbock
Jones, Weldon, 3A ..	McAdoo
Jones, William Charles, 2AS ..	Lubbock
Jones, Wilbur Lindsey, Jr., 4A ..	Lubbock
*Joosten, Virginia, 4AS ..	Lubbock
Jordan, George Orville, 3E ..	Lubbock
Jordan, Jack, 4AS ..	Denton
*Jordan, Jerry, 4AS ..	Blackwell
Jordan, Robert Charles, 4AS ..	Ablene
*Jowell, Nancy Pearl, 1HE ..	Barstow
Joyce, Barry, 1AS ..	Colorado City
Joyce, Hardin, Jr., 2E ..	Brownfield
*Joyce, Jewel Mack, 1AS ..	Brownfield
*Joyce, Milton, 3AS ..	Snyder
Joyner, Victor, 4A ..	Spur
Judkins, Louis Franklin, Grad ..	Laredo
Jury, Maurice Eugene, 1E ..	Borger
Justice, Mason Jene, 1AS ..	Justiceburg
*Justice, Shirley, 1AS ..	Justiceburg
Kane, Jerry, 2AS ..	Weinert
Karnes, Richard William, 2AS ..	Glassport Pa.
Karsteter, Hugh Humphrey, 2A ..	Henrietta
Keahay, Martin Billy, 4A ..	Roaring Springs
Keasler, Robert M., 2AS ..	Eastland
Keener, Ronald Floyd, 1AS ..	Vernon
Keene, Raymond Allen, 3AS ..	Colorado City
Keesee, James D., 1E ..	Slaton
Keesee, Vernon Hix, 1AS ..	Ropesville
Keeton, Finis, 3E ..	Bonham
Keffer, John W., 1AS ..	Seymour
Keith, L. M., Jr., 3AS ..	Brownfield
*Keller, Evelyn, 4AS ..	Lubbock
*Keller, Velma Mae, 1HE ..	Lubbock
*Keller, Wynona Gradine, 2AS ..	Snyder
Kellett, Louis B., 2AS ..	Jayton
Kelley, Clarence L., 4E ..	Lubbock
*Kelley, Dora Dell, 4AS ..	Honey Grove
Kelley, Julian Ross, 3AS ..	Santa Anna
Kelley, Robert V., 2A ..	Sonora
*Kelly, Dorothy Dee, 3AS ..	Lubbock
*Kelly, Mamie, 3HE ..	Denison
Kelton, George, 3AS ..	Hobbs, N.M.
Keltz, Bennie, 1A ..	Whitefall
Kemp, A. J., Jr., 3AS ..	Clovis, N.M.
*Kemp, Ina Mae, 1HE ..	Sweetwater
*Kendall, Gene, 3AS ..	Lubbock
Kendrick, Allen Charlie, 1AS ..	Anton
Kendrick, Lowell O., 3E ..	Lubbock
*Kendrick, Mary Adelia, 4AS ..	Midland
*Kendrick, Mrs. Sue Halliday, 2HE ..	Lubbock
Kennedy, Jack, 2AS ..	Rotan
Kennedy, Mack, 2AS ..	Gorman
*Kennedy, Virginia Aileen, 3HE ..	Rotan
Kent, Lee, 4AS ..	Perryton
Kern, H. James, Grad ..	Ft. Collins, Colo.
*Kerr, Dorothy Juanita, 1AS ..	Lubbock
Kerr, L. A., 2AS ..	Lubbock
Kerr, Robert L., 1E ..	Dallas
Kesler, Fields Elton, 2A ..	Wellington
*Key, Bertha McAlister, 4AS ..	Lubbock
*Key, Marjory, 4AS ..	Wilson
Key, Sydney Erwin, 2E ..	Kirkland
Keyes, Robert Grant, 4E ..	Roswell, N.M.
Keys, Arch Floyd, 3A ..	Plainview
Kidd, William Edward, 4AS ..	Mexia
*Kidwell, Ruby, 2AS ..	Wichita Falls
Kiene, Richard, 1AS ..	Lubbock
*Killam, Jean, 2HE ..	Boia
*Killian, Jo., 1AS ..	Ft. Worth

*Killin, Wendell J., 4AS	Lubbock	Lattimore, Owen, 3AS	Lubbock
Kilpatrick, James I., 2E	Lubbock	Laubhan, Earl Alvin, 1A	Follett
Kilpatrick, Lester, 1AS	Lubbock	*Laubhan, Esther, 4AS	Higgins
*Kimbrell, Wanda Ardell, 3HE	Idalou	*Laubhan, Ouida, 1AS	Follett
Kimmel, Lewis Clark, 2AS	Lubbock	*Laughter, Gola Grace, 2HE	Lubbock
Kimmel, Sarah Beth, 1HE	Lubbock	Lawelle, Alton, 1AS	Big Spring
Kimmel, Turner, 1AS	Lubbock	Lawless, Hugh, 2AS Steamboat Springs, Colo.	
King, Allen Hilton, 4A	Lubbock	Lawley, William Buchanan, 3AS	Lubbock
*King, Charlene, 2AS	Roaring Springs	Lawrence, Ewell M., Grad	Aspermont
*King, Connie, 2AS	Lamesa	*Lawrence, Madge, 2HE	Famea
*King, Herbert, 4AS	Albuquerque, N.M.	*Laws, Mrs. Jeanie B., 4AS	Lubbock
*King, Joe Bruce, 2AS	Roaring Springs	*Laws, Lois, 2HE	El Paso
King, J. W., Jr., 2AS	Loraine	Lawson, Charles Ted, 3AS	Detroit
*King, Mary Nell, 2HE	Albany	Lawson, Henry Neil, 1E	Lubbock
*King, Randall, 2AS	Floydada	*Lay, Birdie Jane, 2AS	Ben Franklin
*King, Rozelle, 4HE	San Angelo	*Lea, Evelyn, 1HE	Lubbock
*King, Syble, 2HE	Higgins	Lea, Robert E., Jr., 3AS	Plainview
Kirby, Laverne Howe, 4E	Lubbock	Leach, Allen Harrington, 2AS	Dallas
Kirk, Buster, 4E	Stinnett	*Leach, Bette Jo, 1AS	Lubbock
Kirkpatrick, Ben. R., 4E	Marysville	*Leach, Mary Frances, 4HE	Lubbock
Kirkpatrick, Clinton Walter, 3AS	Amarillo	Leary, Louette, 2AS	Lubbock
*Kirksey, Rebecca, 4AS	Loraine	Leaverton, Herbert, 2AS	Lubbock
Kittley, Wayne, 2AS	Sudan	*Leavitt, Lauraine, 4AS	W.ison
*Kittley, Wilma Jean, 1HE	Sudan	Ledbetter, Newman L., 4AS	San Benito
*Kittrell, Mary Lee, 2AS	Lorenzo	Ledwig, Alvin Joe, 1E	Lubbock
Klein, Jack, 4AS	Lubbock	Ledwig, James Conrad, 3E	Groom
Klett, Eunice, 2AS	Lubbock	*Ledwig, Madeline Martha, 2AS	Lubbock
*Kluting, Bula Evelyn, 3HE	Peacock	*Lee, Alma Ruth, 1AS	Clovis, N.M.
Knight, Bill, 3AS	Peacock	*Lee, Armoria, 2AS	Colorado City
Knight, John Thomas, 2AS	Texarkana	*Lee, Bernice, 4AS	Littlefield
*Knisley, Mary Margaret, 1AS	Lubbock	*Lee, Clara Elizabeth, Grad	Littlefield
Knox, Gilbert W., 2E	Amarillo	Lee, Curtis, 1AS	Littlefield
Knox, Stanford C., 3A	Hereford	Lee, Fielding, E., Jr., 3E	Colorado City
*Knutson, Billie, 3AS	Idalou	Lee, Frank, 4E	Lubbock
*Koen, Ida Irene, 2HE	Carbon	*Lee, Helen Ruth, 1AS	Spur
*Koeninger, Leta Merle, 3AS	O'Donnell	Lee, John A., 3AS	Electra
*Kolb, Doris Charlotte, 4AS	Lubbock	Lee, Len, 2AS	Silverton
*Kolb, Lourene, 3AS	Raton, N.M.	Lee, Monte Ray, 3E	Cleburne
Kookan, Billy Duff, 2A	Waxahachie	Lee, Raymond D., Grad	Levelland
Krebs, Stephen Ralph, 1AS	Levelland	*Lee, Regina, 2AS	Spur
Kube, Ludwig, 4E	Farwell	*Lee, Winifred, 1HE	Spur
Kuteman, Allard, 1AS	Lubbock	Leftwich, Jimmie Edward, 4AS	Lubbock
Kuykendall, Martin, Jr., 2E	Lubbock	Legge, Marion, 1AS	Lubbock
*Kuykendall, Mildred, 1AS	Lubbock	Legge, Melvin Stillwell, 4E	Lubbock
Lacey, Robert Ray, Jr., 2E	Colorado City	Lehman, Winn, 4AS	Booker
Lack, Harold Alva, 2E	Lubbock	Lehr, Dale Archer, 4E	Lubbock
Lacy, Morris Wayne, 1A	Lubbock	Lehr, Theron LaRue, 4E	Lubbock
LaDue, Milton John, Jr., 2E	Dallas	Lemke, Walter Harold, 4A	Adrian
LaGrange, Lester, Grad	Amherst	Lemon, Lynn, 1AS	Post
Laine, Bill, 1AS	Spur	Lemons, Louis, 1E	Panhandle
Lair, Joe W., 3E	Jacksboro	*Lemons, Mrs. Mavis Gardner, 4HE	Loraine
*Laird, Gertrude, 1HE	Benjamin	LeNoir, Frank, 1AS	Olesia
Laird, Lloyd Edward, 3E	Lorenzo	*Leot, Bettliou, 1HE	Dallas
*Laird, Nancy Beth, 1AS	Lorenzo	Lentz, J. C., Jr., 2AS	Paris
LaJunesse, Richard Louis, 4E	Kenosha, Wis.	Lentz, Lewis Howard, 1AS	Paris
Lake, Gerald Hutton, 4E	Temple	Leonard, Albert, 3AS	Steamboat Springs, Colo.
*Lam, Geraldine Conner, 4HE	Has'el	*Leonard, Louise, 1HE	Brownfield
*Lam, Gwendolyn, 2HE	Denver City	Leonard, Ralph Victor, 2E	Steamboat Springs
Lam, Raybon, 4AS	Lubbock		Colo.
Lamb, Hershel Albert, 3A	Ft. Worth	Lester, Lindon, 1AS	Hobbs, N.M.
Lamb, John, 1AS	Lubbock	*Leuschner, Mrs. Grace Vestal, Grad	Lubbock
Lambert, A. C., Jr., 3AS	O'Donnell	*Levens, Billye Catherine, 2AS	Lubbock
Lamm, J. T., 4AS	Lubbock	Levens, Otis, 2A	Rotan
*Land, Mary Elizabeth, 4AS	Amarillo	Levers, Ervin Joe, 3E	Plainview
*Landers, Harry Etta, 1AS	Lubbock	Levy, Keith, 2A	Farwell
Landers, Sidney, 1E	Lamesa	Lewis, Arch, 4E	San Angelo
Landers, Tom J., Jr., 1AS	Lamesa	Lewis, Clarence Lavergn, 1A	Brownfield
*Landis, Jimmie Van, 4AS	Lubbock	Lewis, Dan, 2AS	Lubbock
*Landrum, Jimmie Lee, 1AS	Perryton	Lewis, Don, J., 4AS	Lovington, N.M.
*Lane, Earline A., 1AS	Levelland	Lewis, Ellen Modette, 1AS	Earth
*Lane, Martha Marie, 3AS	Sudan	Lewis, G. D., 3E	Ropesville
*Lane, Maurice, 1AS	Lubbock	*Lewis, Ha Pauline, 3AS	Earth
Lanford, Herbert Gene, 1AS	Lubbock	Lewis, James Phifer, 2AS	Onley
Langford, Don L., 3E	Tolar	Lewis, Jesse, 1A	Anton
Langford, G. H., 1E	Waco	*Lewis, Jo Ann, 2AS	Tyler
Langford, Joe Franklin, 1AS	Ft. Worth	Lewis, Joseph Dan, 2AS	Lubbock
Langley, Earnest, 4AS	Sweetwater	Lewis, Kenneth O., 1A	Sweetwater
Lanier, Rex E., 3AS	Ft. Worth	*Lewis, Louise, 1AS	Ft. Worth
Lankford, John, 2E	Seymour	Lewis, Ora Vondoe, 3AS	Brownfield
Lanmore, Philip, 2AS	Onley	Lewis, Willard A., 4E	Roaring Springs
Larmer, Bill, 4AS	Ft. Worth	Lieurance, Richard Edward, 2AS	Amarillo
LaRoe, Shirley, 1A	Happy	*Light, Annabeth, 1AS	Steamboat Springs, Colo.
LaRoe, Travis, 4E	Tulia		
Larrick, Jack, 1E	Wichita Falls	*Liles, Gracie Helen, 3HE	Ashmore
Larson, Bob, 2AS	Dallas	Lilly, Bob, Jr., 1AS	Elbert
Lassiter, Bryant, 3AS	Lubbock	Lilly, W. T., 4E	Elbert
Latch, Billy Ford, 1AS	Cisco	*Lindley, Maxine, 2HE	Graham
Latimer, Harold, 2AS	Littlefield	Lindley, Thomas Foster, 2AS	Seminole
Latimer, Howard, 2AS	Littlefield	Lindsey, Bob, 4E	Plainview
Latson, Bill, 2AS	Clarendon	Lindsey, Dwight, 4A	Hollis, Okla.
Lattimore, Glenn H., 2AS	Lubbock	Lindsey, Thomas Rogers, 4A	Lubbock

Liner, Ollie Floyd, 4A	Lubbock	McCasland, Bill, 1AS	Lubbock
Liner, Warren, 3A	Lubbock	McCasland, James Finch, 1AS	Lubbock
Linn, Jimmy, 2E	Lubbock	*McCauley, Georgene Vivian, 4AS	Lubbock
Liscomb, Bob, 2E	Ft. Worth	*McClanahan, Louie Elizabeth, 1AS	Rowena
Lisemby, Frank Paul, 1AS	Tahoka	McClellan, G. L., 1AS	Lubbock
*Lisle, Emma Jean, 2AS	Rule	McClellan, Roy L., 3AS	Spearman
Little, Burl, 3A	Sherman	*McClellan, Vera Beth, 4HE	Spearman
*Little, Essie, 1AS	Anton	McClendon, Edgar, 1AS	Hollis, Okla.
Little, John Norman, 2AS	San Saba	McClendon, Elmc, 4E	Hollis Okla.
*Little, Ometa, 2AS	Anton	McCleskey, John, Jr., 1AS	Floydada
*Littlepage, Priscilla Jane, 2AS	Ft. Worth	McCloy, Alfred Willard, 3AS	Morse
Lively, Robert Morgan, 1E	Lubbock	McClure, Charles Clement, 3A	Jacksboro
Livingston, R. M., 2E	Lubbock	McClure, James W., 3E	Hillsboro
Livsey, Lon L. Jr., 1E	Sinton	McClure, J. C., 1AS	Memphis
*Lloyd, Maureen, 1AS	Lubbock	McClure, Wendell, 1A	Post
*Lockard, Mary Anna Lee, 1AS	Lubbock	*McClure, Wynell, 3HE	Spur
Locke, Edwin B., 3E	Sayre, Okla.	McCulloch, Lawrence, 2AS	Burlington, Iowa
Locke, Emmett Carson, 1E	Sayre, Okla.	McCormick, Charlie T., 2A	Merkel
Locke, John Thomas, 4AS	Miami	McCoy, Bill, 3AS	Baird
Locke, L. B., 3A	Proctor	*McCoy, Jewell, 1AS	Matador
Locke, Lewis N., 4E	Miami	McCoy, Mancil Glenn, 1AS	Lubbock
Lockhart, Charles Wesley, 2AS	Lubbock	*McCrary, Billy Joe, 1E	Lubbock
*Loflin, Ruth, 2HE	Ralls	McCraw, Joe Douglas, 1AS	Lubbock
*Lofitis, Mary Kathleen, 1AS	Lorenzo	McCray, William C., 1AS	Johnson, Kans.
Loggins, Maurice, 2E	Sweetwater	*McCreary, Lucille, 1AS	Lubbock
Lokey, Jack L., 4AS	Lubbock	*McCreary, Marie, 4AS	Rockwood
*Long, Dan, 3HE	Ralls	*McCreary, Sue, 1AS	Rockwood
*Long, Edna, 1HE	Esperanza	*McCreless, Kathleen, 4AS	Stanton
Long, J. C., 2E	Lubbock	*McCreory, Jean, 3AS	Wichita Falls
*Long, Margaret, 1AS	Crowell	*McCrummen, Margaret Cecile, 2AS	Lubbock
Long, Olin, 1AS	Muleshoe	*McCrummen, Marie, 3AS	Lubbock
*Longabaugh, Betty, 1AS	Midland	McCurry, Lonnie, 4AS	Lubbock
Longley, Jack Carter, 3AS	Lubbock	*McCutchen, Gail, 2HE	Robert Lee
*Love, Mrs. Billie Ruth Moore, 4AS	Henderson	*McCutcheon, Jim Ragsdale, 1E	Victoria
Lovelace, Jack B., 2AS	Lubbock	*McDaniel, Dorothea Ellnor, 1AS	Houston
Lovelace, James C., 4E	Dallas	McDaniel, Frank, 2AS	Seymour
Lovless, Luther, 1A	Friona	McDaniel Harold, 4E	Loop
Lovless, Vernon, 3A	Friona	McDaniel, James H., 2AS	Lubbock
Lovell, Gordon, 1E	Lubbock	McDermott, Reginald, 3E	Decatur
Lovell, William Jack, 3AS	Dalhart	McDonald, Archie S., 4AS	McAdoo
Lovlin, Jack, 1E	Lubbock	*McDonald, Aurelia, 2AS	Lubbock
Lovvorn, James Douglas, 1E	Stamford	*McDonald, Jeanne Jefferies, 4AS	Clarendon
Lowe, Brady M., 1AS	Lubbock	McDonald, Marshall, 2E	McAdoo
*Lowe, Christine, 1AS	Haskell	McDonald, Robert, 4A	McAdoo
Lowe, Glenn Edward, 3AS	Mart	McDonald, William Paisley, 4AS	Stamford
Lowe, Rex W., 2AS	Cameron	McDowell, Woodyard Lee, 2AS	Little Rock, Ark.
Lowrance, William E. Jr., 1E	Phillips	*McDuff, Rosa Jo, 1HE	Crosbyton
Lowry, Leonard Floyd, 3E	Plainview	McEachern, William Tansley, 3AS	Amarillo
Lowry, Otis Forest, 1AS	Quanah	*McElheny, Geraldine, 2HE	Dallas
*Loyd, Lucille, 4HE	Hale Center	McElmurray, George Max, Jr., 1A	Trent
Loyd, Tommie, 1AS	Amherst	*McElroy, James D., 1E	Farwell
*L'Roy, Robert, 1E	Abernathy	*McElroy, Mrs. Vera Copeland, 4HE	Lubbock
Lucas, Allen Wilburn, 1AS	Post	*McEntire, Mildred, 2HE	Graham
Luckock, Henry, 2E	Krene	McEwin, John Ben, 4E	Terrell
*Luce, Elizabeth Erle, 4AS	Littlefield	*McFarland, Charline, 2AS	Friona
*Luce, Ruth Corinne, 1AS	Lubbock	McFarland, Kenneth Eugene, 3E	Lubbock
Lutrick, Charles E., 1AS	Abernathy	McFatter, Joe Harry, 2A	Camp Wood
Lyman, Ben F., Jr., 2AS	Littlefield	*McGee, Sammie, 1HE	Spur
Lyman, John, 3E	Syracuse, N. Y.	*McGee, Beth Lowe, 2HE	Tulla
*Lynch, Betty, 2AS	Dallas	McGee, Lyman York, 4A	Wayside
Lynch, Hugh William, Jr., 3E	Chicota	McGhee, John Albert, 2E	Victoria
Lynch, Sterling J., 3AS	Lubbock	*McGlasson, Mildred, 3E	Plainview
Lynn, Albert, 2E	Dallas	McGlothlin, Wm. E., 1A	Marble Falls
Lynn, Elmer Solomon, 3E	Dallas	McGough, Bill, 2AS	Hamlin
Lynn, Harold, 4A	Lubbock	McGowan, Walter Edward, 1E	Sweetwater
Lyon, P. A., 3AS	Spearman	McGowan, Gregory, 1AS	Penwell
Lyons, Paul Frank, 1AS	Hereford	*McGregor, Joe, 3A	Lubbock
*Lytle, Helen, 4HE	Quanah	*McGregor, Margaret V., 3HE	Idalou
*McAdams, Mary Leda, Grad	Lockney	*McGregor, O'Dell, 2AS	Knott
McAfee, Bud, 2AS	Pampa	McIntosh, Andy, 4E	Borger
*McAllister, Maxine, 1AS	Tahoka	*McIver, Mary Lou, 2HE	Brookersmith
*McAlpine, Ruby Doris, 1AS	Crane	*McKay, Iva Lea, 1HE	Lamesa
*McAnally, James Weldon, 3E	Chicota	McKee, George Bruce, 3A	Windthorst
McArthur, Allen Arthur, 2A	Southland	McKee, John Jackson, 3E	Slaton
McArthur, Wilmoth Charles, 4A	Southland	McKinney, Sidney, 2AS	Iowa Park
McBee, Elton Edwin, 2E	Levelland	McKinney, William H., 1AS	Houston
McBride, Warren, 1E	Greenville	McKnight, E. J., 4AS	Mexia
*McCain, Roberta, 4HE	Slaton	McKnight, Maxey, 1AS	Littlefield
*McCallum, Catherine, 4AS	Dallas	McKown, Marvin, 1AS	Altus, Okla.
McCallum, L. Weldon, 3E	Trinidad	*McLain, Helen Jane, 4AS	Lubbock
McCammon, Dan, 2E	Dallas	McLain, Mack Arthur, 2E	Ft. Worth
*McCann, Patricia, 1HE	Lubbock	McLaughlin, Asa Reid, 3A	McAdoo
*McCarter, Dorothy, 3HE	Corsicana	McLaughlin, Raymond Elmer, 1A	Laketon
McCarty, Arthur Leon, 1A	Lubbock	*McLaughlin, Wanda, 2AS	McAdoo
*McCarty, Colleen, 1AS	Munday	McLaury, Wm. M., 1A	Jayton
*McCarty, Dora Nell, 4HE	Lubbock	McLean, George H., 1AS	Hereford
*McCarty, Louise, 1HE	Lawn	McLean, John David, 1AS	Lubbock
McCarty, Lynn, 2AS	Lubbock	*McLeod, Etelle, 4AS	Lubbock
McCarty, Martin Winston, Jr., 4E	Lubbock	McLeod, O'Dell, 3AS	Lubbock
McCary, Rhenard, 2AS	Matador	McLeroy, George B., 1A	Brownfield
McCaskill, F. A., Jr., 4A	Lubbock	*McLoen, Carrye Jo, 1AS	Tyler
McCaskill, Neal, 3E	Lubbock		

McMahon, Jim, 3AS	Lubbock	Mathias, Arnold, 1AS	Copperas Cove
McManis, Alma Lee, 1AS	Tahoka	Mathews, Bill, 3E	Pampa
McMenamy, Ed. B., 2AS	Whitesboro	Mathews, Elwin, 3A	Lubbock
McMenamy, Fannie Lou, 3AS	Lubbock	*Mathews, Marjorie Maye, 3AS	Odessa
McMillan, Jack, 1AS	Plainview	Mathews, Richard Lewis, 4E	Denver City
McMillan, W. B., 1AS	Floydada	*Mathews, Thelma Jo, 1AS	Muleshoe
McMillin, Kelly K., 3E	Childress	*Mathews, Mrs. Virleia, 3AS	Lubbock
*McNamara, Gladys Ruth, 2AS	San Antonio	Mauldin, Davis B., 2E	Breckenridge
McNeill, Roy, 4E	Munday	Mauezy, W. C. Jr., 2AS	Blackwell
McNulty, Charles S., 1AS	Borger	Maxey, H. B., Jr., 2E	Olton
McPhail, Charles Lee, 3AS	New London	*Maxey, Rosemary, 1AS	Nederland
McPherson, Clint, 3E	Gainesville	*May, Agnes, 3HE	Lubbock
McPherson, Gwen Tolar, 3E	Crosbyton	*May, Aliene, 4AS	Westbrook
McPherson, Virginia, 3AS	Shamrock	*May, Beulah Francis, 3HE	Iowa Park
McQuatters, Roy B., Jr., 2A	Littlefield	*May, Carey, 4A	Lubbock
McReynolds, Georgia Alva, 2AS	Floydada	*May, Florene, 3HE	Lockney
McReynolds, Overton, 4AS	Floydada	May, Jesse Jr., 1E	Mercedes
McReynolds, Zoe Juanita, 2AS	Muleshoe	Mayes, George L., 1AS	Laredo
McSpadden, Willard, 4E	Lamesa	*Mayfield, Mrs. Bernice Morgan, 4AS	Lubbock
McSwain, Marvin, 1A	Floydada	Maynard, Curtis G., 2AS	Amarillo
*McWhorter, Alva Clair, 4HE	Wolforth	Mays, Craig, 3AS	Kermit
*McWhorter, Muriel, 2AS	Lubbock	*Mays, Muriel, 2AS	Strawn
McWilliams, Ramon Robert, 3AS	San Benito	Mays, Page, 4AS	San Angelo
Maasen, H. A., Jr., 1AS	Tahoka	Meacham, J. Robert, 1AS	Paducah
*Macdonald, Dorothy, 2AS	Borger	*Meading, Evelyn Marie, 3HE	Slaton
Machel, Albert R., 2E	Wichita Falls	*Meading, Miriam Louise, 2HE	Slaton
Macina, Bob, 1AS	Shamrock	Meadows, Barkley, 3AS	Cleburne
*Mack, Emily Ann, 4AS	Ft. Worth	Mears, Wayne, 4A	Fluvanna
*Mackey, Clarice, 4HE	Meadow	*Mebus, Katherine Sue, 3HE	Tornillo
Mackey, Patrick E., 4E	Mexia	Medlin, Homer Lewis, 2E	Garden City
Madden, William Wayne, 3E	Littlefield	Medlin, Pauline, 4AS	Bula
Mader, Ernest, Grad.	Lubbock	*Meekma, Glenna, 1HE	Olton
Maeke, Arnold, 3E	Wilson	Meinecke, Charles Ray, 2AS	Lubbock
*Mage, Dorothy Mildred, 3AS	Leveland	Melanson, Beverly C., 2E	Ft. Worth
Majors, Sam Lee, Jr., 1AS	Colorado City	Meley, Leroy, 1A	Dallas
Malcolm, Graydon H., 1E	Brownfield	Melloy, James Weidon, 2A	Royce City
*Malcolm, Iva Iola, 1HE	Brownfield	*Menaul, Margaret Lynn, 1AS	Odessa
Mallard, Billy J., 3E	Hillsboro	Menaul, Paul D., 3AS	Odessa
Malone, Harrison, 1E	Merkel	Mendell, Herman, 3E	Houston
Malone, Mrs. Joyce, 2AS	Lubbock	Meredith, Dan T., 4AS	Lubbock
*Malone, Madge, 3AS	Lubbock	Meredith, Stanley Dee, 2AS	Carbon
Malone, Maurice Leon, 2A	Shallowater	Merket, Gerald Conroy, 3AS	Cisco
Malone, Sam Jr., 1AS	Seminole	Merrell, Fount, 1AS	Lubbock
*Malone, Sara Laura, 4AS	Merkel	*Merrell, Lynette, 3AS	Shallowater
*Maloney, Norma Leone, 2AS	Roscoe	Merriman, James, 1E	Lubbock
Manchee, Kellogg C., 3E	Dallas	*Meskimen, Jane, 3AS	Lubbock
Maner, Edward Dalton, 3A	Hillsboro	Messersmith, Frank E., 4E	Ft. Worth
Mannan, Dorothy Ann, 2AS	Dallas	Messick, Bobby, 1AS	Wichita Falls
*Manning, Hazel, 1HE	Lubbock	*Metcalf, Frances, 1AS	Chillicothe
Mapes, Clois P., 3E	Cisco	*Metcalf, Pearl R., Grad.	Lubbock
*Mara, Helen, 4AS	Decatur	*Meyers, Leanne, 3AS	Lamesa
*Markham, Beulah Rae, 2AS	Ropesville	*Meyers, Thelma, Grad.	Lubbock
Markham, George R., 2AS	Mercedes	*Meyers, Zada Bea, 2AS	Lubbock
*Markham, Sara Belle, 2AS	Sudan	Michie, Ted, 1AS	Wichita Falls
*Marks, Earlene, 1AS	Idalou	*Mickey, Wendell Vaden, 2E	Plainview
*Marlar, Bonnie Ruth, 1AS	Lorenzo	*Middleton, Lora DaOnne, 1HE	Slaton
*Marr, Crystell, 1AS	Lamesa	Midyett, Wilson Monroe, 4E	Breckenridge
*Marr, Lorraine, 2HE	Rotan	Miles, Mark, 3A	Dallas
*Marrs, Dorothy Rose, 1AS	Wichita Falls	Miller, Bob, 1AS	Odessa
Marrs, Verne, 3E	Paducah	*Miller, Chessie, 1AS	Big Spring
Marshall, Frank, 1E	Lubbock	*Miller, Dorothy Edith, 1AS	Sudan
Marshall, Joe, 2E	Lubbock	Miller, Francis Peirson, 3E	Amarillo
Marshall, John, 4E	Lubbock	*Miller, Harriette, 3HE	Lubbock
Marshall, Ralph, 3AS	Coahoma	*Miller, Johnnie Marcelle, 3HE	McAdoo
*Marshall, Vera Nell, 2AS	Floydada	Miller, Kelton Dale, 2AS	Pampa
Marshall, J. Wilbur, 2A	Ft. Sumner, N. M.	Miller, Louie Fritz, 1A	Iraan
Martin, Arthur Guy, 3E	Houston	*Miller, Marilyn, 3AS	Lubbock
Martin, Billy, 1AS	Lubbock	*Miller, Marjorie Louise, 3AS	Fabens
Martin, Billy Hoyt, 1E	Lubbock	*Miller, Mary Etta, 2AS	Lubbock
Martin, Charles D., 3A	Corsicana	*Miller, Nancy Ann, 3AS	Lubbock
Martin, Charles L., 1AS	Lubbock	Miller, Orba E., 4A	Floydada
Martin, Claud L., 1AS	Greenville	*Miller, Pauline R., 3AS	Lubbock
Martin, Forrest M., Grad.	Red Springs	Miller, Richard, 3AS	Ozona
Martin, Jay W. Jr., 3AS	Lubbock	*Miller, Sarah Elizabeth, 1AS	Fluvanna
Martin, John P., 4A	Lubbock	Miller, Sherwood, 4E	Holliday
*Martin, Margaret, 2AS	Lometa	Miller, Thelbert, 2A	Seymour
*Martin, Marie, 1HE	Monahans	Miller, Welborn D., 4A	Floydada
*Martin, Martha Lou, 3AS	Lamesa	Miller, William H., 4AS	Snyder
*Martin, Mozelle, 2AS	Lubbock	Millikan, Frank, 1AS	Roswell, N. M.
*Martin, Richard Lee, 2AS	Eastland	Mills, Arthur Oliver, 4A	Sterling City
*Martin, Rose Marie, 2AS	Corsicana	Mills, Eddie Vaughn, 3E	Santa Anna
*Martin, Wanda, 3AS	Crane	Mills, Ellis M., Grad.	Plainview
Martin, Wesley, 1A	Westover	Mills, George Lee, 3AS	Lubbock
Martin, Willard, 3AS	Lamesa	Mills, Lewis C., 1AS	Lubbock
Martin, William Travis, 3A	Lubbock	Minter, Ralph L., 2AS	Como
Marxen, Bob 3E	Houston	*Mitcham, Mary Adna, 2AS	Odessa
*Mason, Marian Lee, 3AS	Post	Mitchell, Dee Edward, 1AS	Elmer, Okla.
*Mason, Mary Gladys, 4HE	Crane	*Mitchell, Eleanor, 1AS	Lubbock
Masoner, Clifton B., 1E	Springdale, Ark.	*Mitchell, Elizabeth, 2AS	Lovington, N. M.
Masten, L. Reese, Grad.	Plainview	*Mitchell, Frances, 3AS	Rails
*Masters, Hardy, Grad.	Welch	Mitchell, Frank, Jr., 2E	Lubbock
Masterson, James E. Jr., 2E	Estelline	Mitchell, John Norris, 2A	Campbell

Mitchell, Joseph Alden, 1AS	Imperial	Murray, Mable, 1AS	Merkel
Mitchell, Mildred Marie, 4AS	Lubbock	Murray, Thomas Francis, 3AS	Lubbock
Mitchell, Orson Lorenzo, 2E	Lubbock	Murray, Tom E., 4A	Hobbs, N. M.
Mitchell, Rhea, 2A	Lockney	Musick, George L., Jr., 3AS	Lubbock
Mitchell, Robert Carroll, Grad	Crosbyton	*Musick, Marjorie, 2AS	Tulla
*Mitchell, Rosalind, 3AS	Roaring Springs	*Musick, Pearl Elizabeth, 3AS	Lubbock
Mize, Weldon, 2E	Rotan	Myers, Harold, 2E	Melrose, N. M.
Mize, Woodrow Wilson, 4E	Rotan	Myers, Howard, 1AS	Munday
Moffett, Roy, 3A	Camp Springs	Myrick, Walter Asberry, 3E	Lubbock
*Monroe, Cary Ann, 2AS	Sweetwater	*Nabers, Mary Elizabeth, 3E	Big Spring
Monroe, James L., Jr., 2E	Hale Center	Nabors, Rafe Simms, 4AS	Lubbock
Monroney, Wayne Garrett, 2A	Forsan	Nachlinger, Pete, 4E	Hermleigh
Montandon, Francis Louis, Jr., 1A	Knox City	Nachlinger, Willie Joe, 1A	Hermleigh
*Montgomery, Doris, 1HE	Colorado City	Nail, Eugene B., 1E	Lubbock
*Montgomery, Emily Lois, 4HE	Tahoka	Nail, Paul, 1E	Lubbock
*Montgomery, Porter A., 4AS	Dalhart	*Nail, Wanda, 2HE	Dunn
Montgomery, Robert Allen, 1AS	Lubbock	Nail, Carl, 2A	Floydada
Montgomery, Ross, 2A	Darrouzett	Nail, Derwood, 2A	Loving
Montgomery, William Smith, 3E	Lubbock	Nail, Kline A., Grad	Lubbock
Moody, Bill, 2AS	Ft. Stockton	Nance, Lewis E., 4A	Justiceburg
Moody, Rayford, 2AS	Archer City	*Nance, Lois Alberta, 4AS	Justiceburg
Mooney, John P., 4E	Ranger	*Nance, Mary Louise, 1AS	Morton
*Moore, Ann, 2AS	Albany	*Nance, Nancy, 3HE	San Antonio
*Moore, Mrs. Bessie Hansen, 4AS	Lubbock	Narramore, William Oscar, 1E	Greenville
Moore, Bruce Franklin, 1E	Lamesa	Nash, Jerry, 2E	Lubbock
Moore, Carl Leslie, 1AS	Lubbock	Neal, Frank Earl, 1AS	Westbrook
Moore, Darrell Day, 2AS	Lubbock	Neal, Jack K., 2E	Honey Grove
Moore, Ed Boone, 2E	Ft. Worth	Neel, Charles Sibley, 2E	Coahoma
Moore, Eleanor, 2AS	Lubbock	Neel, Willie Morris, 1E	Palestine
Moore, Gilford, 2AS	Quitauque	Neeley, Koy, 4A	McAdoo
Moore, Hazel, 4HE	McAdoo	*Neelley, Dorothy Edwina, 3HE	Waco
Moore, H. L. P., 4E	Bonham	*Neely, Lucille, 4HE	Brownfield
Moore, Jack, 3E	Gunnison, Colo	Neff, Edward, 1E	Post
Moore, J. C., 4E	Dumas	Nelhof, Rex Albert, 2E	Plainview
*Moore, Joyce Lynn, 3AS	Carlton	Neill, J. B., 1AS	Lamesa
Moore, Kathleen, 1AS	Lubbock	Nelson, Alan, 2E	Lubbock
Moore, Lucy, 4HE	Merkel	Nelson, Glen Stafford, 2A	Dimmitt
Moore, Marjoria Arlena, 3HE	Matador	Nelson, Joe Dale, 2AS	Pampa
Moore, Mary Ethel, 4AS	Lubbock	Nelson, Jones Pratt, 1A	Hughes Springs
Moore, Sidney Justin, 4E	Ft. Worth	*Nelson, Nancy Leota, 3AS	Shallowater
Moore, Syble Marie, 2HE	Ropesville	Nelson, Nathaniel Jacob, 4A	Clifton
Moore, Thomas, 2AS	Lubbock	Nelson, Ralph, 4A	Amarillo
Moore, Travis, 3E	Lamesa	Nelson, William Francis, 2AS	Lubbock
Moore, Zeb A., Jr., 3AS	Amarillo	Neves, Douglas, 3AS	Bells
Moorhead, Tom Norton, 4AS	Brownfield	New, Earl James, 4AS	Skellytown
Moorhouse, Jerry B., 2AS	Benjamin	New, Joseph W., 2E	Skellytown
Moreland, George W., 1A	Plains	New, Warren Paul, 3AS	Skellytown
Morgan, Ernest, 1E	Lubbock	Newell, Francis E., 4E	Lubbock
Morgan, J. D., 4E	Lubbock	Newell, Louis H., 1AS	Floydada
Morgan, J. P., 3A	Vernon	Newland, Earl Bedford, 1AS	Tarzan
Morgan, J. T., 3AS	Lubbock	*Newman, Edith Pearl, 2AS	Cone
Morgan, Keith, 1AS	Cheyenne, Wyo.	*Newsom, Elmerene, 1AS	Odessa
*Morgan, Ludie May, 3AS	Meadow	*Newsom, Lorene, 4HE	Littfield
Morgan, Lloyd, 4A	Lamesa	Newsom, Young Beverly, 3E	Sonora
Morgan, Paul W., 2AS	Lamesa	*Newton, Beth, 3AS	Dougherty
Morgan, Ray Millard, Jr., 4AS	Brownwood	Newton, Clifton Odell, 1A	Baileyboro
Morgan, Robert M., 1AS	Spur	Newton, Madison, 1AS	Anton
Morgan, Weldon, 1A	Lubbock	*Newton, Roxie, 1HE	Lubbock
Morris, Andy, 3AS	Odessa	Nichols, Neal, 2AS	Borger
Morris, Clifton, 3AS	Lubbock	Nicholson, Robert Gary, 3AS	Ft. Stockton
*Morris, Ella Frances, 1AS	Lubbock	Nicholson, Robert P., 1AS	Lorenzo
Morris, James C., 4E	Ridgeway	Nickell, Gene, 2AS	Dallas
Morris, John Luther, 2AS	Rule	Nicks, Jack, 3AS	Hereford
*Morris, Nanetta Pauline, 4HE	Clarksville	*Nicks, Mary, 2AS	Ft. Worth
Morris, Quentin L., 3E	Ridgeway	Nislar, James, 2AS	Lubbock
Morrison, Billy, 1E	Lubbock	Nivlin, Billy Fosset, 4A	Ruby
Morrison, David E., 3E	Lubbock	*Nix, Bertha Elizabeth, 3AS	Abernathy
Morrison, Ed, 4A	Colorado City	Nix, J. Frank, Jr., 2A	Abernathy
Morrison, Elmo, 1AS	Lubbock	*Noack, Rena Bell, 1AS	Southland
Morrison, Foch, 2AS	Lubbock	*Noah, Lena, 1AS	Sweetwater
Morrison, L. C., 4AS	Brownfield	Nolen, Ernest G., 1A	Alvarado
Morrison, Tom, 1AS	Ralls	Nolen, Robert Edward Jr., 1AS	Midland
Morse, Garth Edwin, 1AS	Floydada	Noret, Ray Allan, 1AS	Lamesa
*Moseley, Claudia Sue, 4AS	Knox City	*Norfleet, Mary Hope, 1HE	Olton
*Moseley, Edith, 2HE	Friona	Norman, Charles H., 1AS	Odessa
Moseley, Hubert, 2A	Rochelle	Norman, Ray, 3E	Pampa
Mosley, Howard LaVerne, 1A	Sterley	*Norris, Isabell, 1AS	Lubbock
Moss, Ennis E., Jr., 2AS	Lubbock	Norris, John Louis, 3E	Idalou
Moss, H. G., 2AS	Ft. Worth	Northern, Thomas J., 4E	Lorenzo
Moss, LaVern, 2A	Whiteface	*Norton, Velma, 1AS	Lubbock
Moss, Milton Lee, 2AS	Lubbock	Novak, Frankie Dodd, 1AS	Amarillo
Moss, William Stephen, Jr., 2AS	Lubbock	Nowell, Truman Carl, 4E	Athens
*Motl, Violet Lee, 1HE	Anton	*Nugent, Mary Ann, 2HE	Seymour
Moxley, John Robert, 2AS	Lubbock	*Nutt, Mary Wanda, 1AS	San Angelo
*Mudge, Frances, 2AS	Cleburne	Nystel, Arch, 4E	Abernathy
*Mueller, Clara, 2HE	Roscoe	Oakes, Vernon, 1E	Santa Anna
Mullin, Robert Bruce, 1AS	Lubbock	*Oakley, Carrie Helen, 2HE	Wink
Mullins, Jack, 1A	Anton	*Oakley, Robert Donald, Jr., 3AS	Weatherford
Munn, Max, 2E	Junction	*Oats, Dorothy Del, 1AS	Slaton
Murdough, James Harold, Jr., 2E	Lubbock	*Oats, Elizabeth, 2AS	Lubbock
Murphy, C. R., 1AS	Lubbock	Oats, W. S., 1AS	O'Donnell
Murphy, Lee N., 2E	Amarillo	O'Connor, Robert W., 3AS	Dallas

Odum, George, 1AS	Lubbock	*Payne, Thelma, 2AS	Levelland
*O'Dell, Irless M., 4A	Lubbock	*Peak Mary Frances, 1HE	Lubbock
Odle, Loren Ray, 1E	McKinney	*Pearson, Houston, 1A	Lorenzo
*Odum, Katherine, 1AS	Eldorado, Okla.	*Pearson, Myrtle Lois, 4HE	Lorenzo
*Odum, Melba Ann, 1AS	Snyder	*Pearson, Virginia, 4AS	Weatherford
*Ogden, Emadel, 3AS	Chicotah, Okla.	*Peavy, Doris, 4AS	Slaton
*Oglesby, Ben, Jr., 1AS	Lubbock	*Peays, Buford, 3E	Robert Lee
*Oldham, Frances Louise, 3E	Lubbock	*Peays, Hazel Ruth, 1HE	Robert Lee
Olinger, Bill, 2AS	Garland	*Peckham, Miriam Frances, 3AS	Amarillo
*Oliver, Elwanda, 2AS	Lamesa	*Pederson, Clyde M., 4AS	Clifton
Oliver, Sherrill, 3E	Winters	*Pederson, Sylvan H., Grad.	Clifton
Oliver, William, 3AS	Dallas	*Peek, Argo Vestal, Grad.	Lubbock
Oliff, J. D., 2AS	Denver City	*Peek, Mrs. Bessie Lee Ford, 4HE	Lubbock
*O'Mara, Betty, 1AS	Lubbock	*Peek, Christene Ardenella, 4AS	Lubbock
*O'Neal, Emalu, 2AS	Lubbock	*Peek, Jackie Bob, 1AS	Lubbock
*O'Neill, John H., 4A	Lubbock	*Peeples, Doris Faye, 4AS	Lubbock
*O'Rear, Jacques, Grad	Lorenzo	*Pelto, Bruce Charles, 3E	Tahoka
*Ormand, Doris Jean, 3AS	Sudan	*Pemberton, Delton L., 2AS	Tahoka
*Orr, Mrs. Rogers, 4AS	Lubbock	*Pendleton, Gene Arthur, 1E	Crane
*Orr, Rollin Samuel, Grad	Hereford	*Pendleton, Mildred, 2AS	Stratford
*Orr, Vidabelle, 1AS	Hereford	*Pendleton, Noma, 4AS	Wilson
*Ostrom, Elinita, 1AS	Phillips	*Pendley, Lloyd Ray, 1AS	Lubbock
*Ostrom, Lavon, 1HE	Phillips	*Pendley, Mavis, 2E	Lubbock
*Overby, Cecil Thomas, 3E	Lubbock	*Penick, Russell, 4A	Rule
*Oberby, Howard, 1A	Stamford	*Penney, Hulen J., 2AS	Lubbock
*Overton, William Elbert, 4A	Abernathy	*Pennington, Mozelle, 2HE	Lubbock
Owen, Fred Thomas, Jr., 2A	Whitney	*Percifull, Noel, 1A	Bronte
Owen, Harold, 4AS	Jacksonville	*Perez, Rodolfo, 3E	Premont
Owen, Max Leroy, 4AS	Hollis, Okla.	*Perkins, Robert G., 2AS	Eastland
Owen, Pat, 1A	Eastland	*Perrin, Thomas Woodrow, 4A	Weinert
*Owen, Roberta, 1AS	Winters	*Perry, Gene, 1AS	Dallas
Owen, Roger Kendall, 1AS	Vernon	*Perry, Lee, Jr., 4E	San Antonio
Owens, Charles Franklin, 1AS	McAdoo	*Perry, Max, 3A	Brownfield
Owens, Marcus, 4E	Lubbock	*Perry, Susan, 3AS	Dallas
Pace, Clark Finis, 2A	Bowie	*Perryman, Bob, 3E	Dennison
Paden, Cleo, 2A	Lubbock	*Petersman, Marie, 1AS	Lubbock
Paden, Lowell, 1A	Lubbock	*Peterson, Derwood, 2AS	Lamesa
Page, Hoyt, 1AS	Royce City	*Pettigrew, Tom, 1A	Justusburg
Page, Refa Janet, 1AS	Shallowater	*Petty, Troy C., Grad	Levelland
Pager, Walter, 1A	Valera	*Phelps, Etta Charlene, 1HE	Amherst
Palmer, Jimmie, 1AS	Perryton	*Phelps, Richard Thomas, Jr., 2E	Trinidad
*Palmer, Mary, 1E	Rotan	*Phillips, Ben T., Jr., 2E	Levelland
*Pardue, Thomas Wood, 1AS	Lubbock	*Phillips, Bertha Marie, 1AS	Iredell
Parish, Leonard Lee, 3A	Iowa Park	*Phillips, H. D., Jr., 4AS	Lubbock
Parish, R. C., 1AS	Carey	*Phillips, Helen, 2AS	Abernathy
Parker, James Jr., 2E	Ft. Worth	*Phillips, Howard, 1E	Lubbock
*Parker, Juanita, 2AS	Lubbock	*Phillips, John L., 3AS	Dallas
*Parker, Mary, 2HE	Pampa	*Phipps, Foch, 1A	Littlefield
*Parker, Natalie, 3AS	Garden City	*Pickett, Orval Mack, 1A	Brownfield
*Parker, Rachel, 3AS	Tulia	*Pierce, Carson E., 1AS	Lubbock
*Parkinson, Mrs. Mary Grace, 4AS	Lubbock	*Pierce, Homer Rolland, Jr., 1E	Tulsa, Okla.
*Parks, Dorothy, 4AS	Jayton	*Pierce, Joe Ed, 3AS	Biedose
*Parks, Mary Katherine, 1E	Breckenridge	*Pierce, Milton, 4A	Plainview
*Parks, Redell, 1HE	Tokio	*Pierce, Mona Louise, 1AS	Lubbock
*Parks, Roy, 1AS	Lubbock	*Pierson, Martha Lee, 1AS	Lubbock
*Parnell, Gladys Ruth, 2AS	Lubbock	*Pike, John Leroy, 4AS	San Angelo
*Parnell, Martha, 2AS	Lubbock	*Picher, Harold, 3E	Lubbock
*Parra, Quirino, 1AS	Canadian	*Pinkerton, Lura Helen, 3AS	Plainview
*Parramore, Pearl Stone, 4HE	Lubbock	*Pinkerton, Thurman, 3E	Lefors
*Farrish, Clifford M., 4E	Lubbock	*Pipes, Wayne, 2AS	Lubbock
*Farrish, W. D., 2AS	Carey	*Pitman, Bonnie Lee, 1AS	Lamesa
*Farrish, Gertrude, 1HE	Sibley, Iowa	*Pitman, William D., 2AS	Lubbock
*Parsons, Jack, 1A	Hale Center	*Pitts, Carl Elton, 4E	Crane
*Parsons, Shirley, 2AS	Lubbock	*Pitts, Frances Ray, 4HE	Amarillo
*Partin, Charles, 1A	Lubbock	*Pitts, James Carroll, 4E	Amarillo
*Partin, Elsie Pendleton, 4HE	Wilson	*Pittson, C. A., 1AS	Lubbock
*Paschall, Clyde Mullin, 2A	Lubbock	*Plants, Martha Frank, 2AS	Seymour
*Paschall, R. A., Jr., 1AS	Lorenzo	*Plemmons, Othal Miles, 1AS	Olney
*Patrick, Franklin, 1AS	Littlefield	*Plummer, Bettye Frances, 1AS	Ft. Worth
*Patrick, LaRue Bernice, 1HE	Quitauque	*Plunk, William Clay, 3E	Hedley
*Patrick, Walter, 1A	Quitauque	*Poff, Clarence Patsy, 3E	Wilson
*Patterson, Harold Lloyd, 1AS	Big Spring	*Pogue, Bill, 1AS	Haskell
*Patterson, Ira, 2HE	Lubbock	*Poindexter, Clois Martin, 1HE	Guion
*Patterson, John Leo, 4E	Lubbock	*Polk, Louise, 2HE	Littlefield
*Patterson, Rachel, 1HE	Merkel	*Polk, Patsy, 1HE	Littlefield
*Patterson, Rosemary, 3AS	Lubbock	*Pool, Edward, 2E	Littlefield
*Patterson, Truett Herbert, 4E	Merkel	*Pool, Jeradine, 1AS	Littlefield
*Patton, Jack, 1A	Jayton	*Poole, Charles, 2E	Benjamin
*Patton, John Warren, 2E	Amarillo	*Pope, Edith, 1AS	Benjamin
*Patton, Keith, 1AS	Matador	*Pope, Billy, 3E	Henrietta
*Patty, Evelyn, 4HE	Waco	*Porter, Darrell David, 2E	Mules
*Pavich, Jesse, 1E	Lubbock	*Porter, Mackie Jane, 2AS	Galveston
*Paxton, Mary, 2E	Sweetwater	*Porter, William V., 1AS	McAllen
*Payne, Emory Turner, 2AS	Lubbock	*Porterfield, Dorothea Lea, 4AS	Amarillo
*Payne, James Clifton, 2A	Hale Center	*Porterfield, Joseph Pitts, 1E	Wichita Falls
*Payne, John Wesley, 3AS	Hale Center	*Posey, Conrad Lee, 2E	Tularosa, N. M.
*Payne, Lucille Moss, 2AS	San Augustine	*Posey, William Thomas, 3E	Duncan, Okla.
*Payne, Lucy Mary, 2AS	San Augustine	*Poteet, Clovis, 2A	Olton
*Payne, Mary Jane, 2AS	Lubbock	*Poteet, Leora, 1HE	Anton
*Payne, Paul Louis, Jr., 1E	Lubbock	*Poteet, R. B., 2A	Olton
*Payne, Robert Neal, 2A	Byers	*Potts, Bill, 4AS	Portales, N. M.
*Payne, Ruth Marie, 2HE	Lubbock	*Pounds, John Ray, 1AS	Burkburnett

Pounds, Robert Lester, 3E	Booker
Powell, Billie L., 1AS	Spur
Powell, C. A., 4AS	Memphis
*Powell, Elisabeth, 3AS	Spur
*Powell, Imogene, 3AS	Lubbock
Powell, James Larry, 1E	Bronco
*Powell, Martha Lucille, 3HE	Slaton
Powell, Raymond, 1A	Petersburg
Powell, Sherill Lee, 2AS	Slaton
Powell, Wesley, 4E	Clarendon
*Power, Bill K., 3E	Lubbock
*Powers, Georgia Lee, 2AS	Sudan
Powers, Ted, 2A	Slaton
Powers, Ted, 2A	Barksdale
*Prange, Edna Louise, 2AS	Cisco
Pratas, Chris, 3E	Lubbock
Prather, Jack Alan, 3E	Dallas
Presley, Wilson C., 1A	Abilene
Presson, Glendon F., 2AS	Post
Preston, Joe Tom, 1AS	Childress
Preston, Neff, 1AS	Shallowater
Preston, Wayne Douglas, 3AS	Childress
Prestridge, Barney, 3AS	Lubbock
*Prewitt, Maurine, 1AS	Happy
Price, Dan, 2A	Rochelle
*Price, Imogene Birdwell, 4AS	Lubbock
Price, James Edward, 2A	Tahoka
Price, John T., 1E	Skellytown
Price, Lewis, 3A	San Augustine
*Price, Martha Ann, 3HE	Pampa
*Price, Mary, 4HE	Pampa
*Price, Norma, 3AS	Lubbock
*Price, Polly, 3AS	Childress
*Price, Ruth Estelle, 3AS	Morton
Price, W. D., 1E	Rankin
*Price, Winona, 3HE	Estelline
*Prickett, Jane, 3AS	Lubbock
Prickett, Tom, 3E	Mexia
Priddy, John F., 1AS	Stanton
Prideaux, Tom Moore, 3AS	Lubbock
*Priebe, Frances, 3AS	Wink
Proctor, Frank Albert, 2AS	San Angelo
Proctor, Lloyd Waldo, 1AS	Odesa
Progress, Rowland W., 2E	Houston
Prosser, Lotten L., 3E	Roscoe
Pruitt, J. Burl, 2E	Blackwell
*Pruitt, Katherine, 4AS	Sparenberg
Pullen, Marshall Ray, 1AS	Pittsburg
Purdy, Ira Odell, 1AS	Flomot
Purtell, Kenneth, 4A	Brownfield
Putty, Ross, 4A	Lubbock
Qualla, James Louis, 1A	Lubbock
*Qualla, Jeanne, 2AS	Lubbock
Qualls, Jack Wade, 3AS	Benjamin
Quest, Ralph, 2AS	Lubbock
Rabb, David Carroll, 1E	Garland
*Ragan, Bee, 1E	Sweetwater
Ragland, Eugene, 1AS	Plainview
Ragle, Burney, 4A	Olton
Ragsdale, James E., 2AS	Childress
Ragsdale, Richard W., 1AS	Slaton
Rahfs, O. H., Jr., 2A	Happy
Rainey, Elvin Weston, 2E	Dalhart
Rains, Bernice Maurine, 2AS	Lubbock
Raley, Bedford M., 1AS	Lubbock
Rail, Marvin Crenshaw, II, 4AS	Ft. Worth
*Ralston, Margarette, 3HE	Iowa Park
Ralston, Wilson, 3AS	Bagwell
Ramey, Robert, 3AS	Dimmitt
Ramsey, Gerald, 4AS	Lockney
Ramsey, Ray E., 2AS	Floydada
Randolph, Roy D., 1AS	Lubbock
Randolph, Wallace, 4A	Lubbock
Range, Byron, 4A	Dallas
Range, James, 1A	Garland
*Rankin, Murvel, Grad	Lubbock
Rankin, Robert Estes, 4E	Midland
*Ransom, Charlotte, 1AS	Ft. Worth
Rapier, Robert Edward, 1E	Waco
Rapstine, Frank, 3A	White Deer
Rasberry, Dayle, 3AS	Ackerly
*Rasco, Marie, 1AS	Memphis
Rash, Glenn Roberts, 1A	Tertrell
Rash, Wayne, 4E	Lubbock
*Ratcliff, Annis Janet, 1AS	Lubbock
Ray, James W., 4E	Lubbock
Ray, Jess W., 4AS	Bivins
Ray, Vernon, 1AS	Hughes Springs
*Rayford, Louise, 1AS	Stanton
Raynolds, David Palmer, 3A	Sulphur Springs
*Rea, Margie Lucille, 1HE	Anton
*Read, Barbara Ann, 1AS	Lubbock
*Read, Marian Hope, 3AS	Lubbock
Reast, Kenneth, 4A	Lubbock
*Reaves, Mary Frances, 3AS	Iowa Park
*Reddell, Anita, 4AS	Tahoka
Reddell, David Frederick, 2E	Tahoka
Redding, Paul, 3E	Punxsutawney, Pa.
*Reiford, Mrs. Imogene, 3AS	Brownfield
Redford, Logan, 4AS	Brownfield
Redick, Richard W., 2E	Iraan
Redline, Leland Ralph Jr., 2E	Lubbock
Redus, Hardy Dean, 2E	Rotan
*Redwine, Bette Bob, 1E	Lubbock
*Reed, Cora Lee, 2AS	Lubbock
Reed, James, 1AS	Crosbyton
Reed, James Clinton, 1E	Lamesa
Reed, J. Russell, Grad	San Angelo
*Reed, Mrs. Lottie, 4HE	Lubbock
*Reed, Zenoba, 2HE	Floydada
*Reeder, May Ona, 1HE	Lubbock
*Reese, Joe Dorothy, 1AS	Lubbock
*Reese, Katherine, 1HE	Shallowater
*Reese, Nancy, 3AS	Gainesville
*Reid, Betty Jo, 2AS	Morton
Reid, Harold, 1AS	Lubbock
Reid, Jack, 1E	Midland
Reid, Kenneth Eugene, 3AS	Plainview
Reinhart, E. B., Jr., 1AS	Stanton
Reinhart, Arthur S., 4E	Del Rio
*Reinholt, Claudia Odella, 3HE	Lubbock
Reinholt, Ridgeway Milton, 1E	Dalhart
*Reinholt, Shirley, 4HE	Lubbock
Renfro, Charles A., 3AS	Amarillo
*Renfrow, Rosa, 3AS	Muleshoe
*Renner, Jean, 1HE	Lubbock
Reno, Vincent, 4AS	Austin
*Rettig, Charles Edward, 2E	Henderson
Revier, Frank, Jr., 2AS	Lubbock
*Revier, Mary Louise, 2E	Lubbock
*Reynolds, Agnes, 1AS	Henrietta
*Reynolds, Bernice, 1HE	McCauley
Reynolds, Fred, 1E	Roundup, Mont.
Reynolds, Joe, 1A	Eldorado
*Reynolds, Mary Katherine, 4HE	Quanah
Reynolds, Paul R., 4AS	Petersburg
Reynolds, Roland Hugh, 2AS	Shamrock
Reynolds, Weldon, 2A	McCauley
Rhew, Jack, 1AS	Lorenzo
*Rhodes, Letha Evelyn, 2AS	Houston
*Rhodes, Reuby Tom, 2HE	Lubbock
*Rice, Betty Jo, 1HE	Lubbock
*Rice, Sarah Beth, 4AS	Lubbock
Richards, Hubert, 2A	Estelline
Richards, L. A., 1A	Memphis
Richards, Louis, Grad	Waxahachie
Richards, William B., 3AS	Lubbock
Richards, Winton, 1E	Canton
Richardson, Billy, 1AS	Quanah
Richardson, Edward, 1AS	Lubbock
Richardson, Sam, 2AS	Colorado City
Richy, Howard, 4E	Afton
*Richy, Muriel, 1HE	Lubbock
*Richter, Gertrude, Grad	Abernathy
*Ridley, Marjory, 3HE	Ft. Worth
*Riek, Irene, 2AS	Lubbock
Riethmayer, Walter R., 1AS	Lamesa
*Ripley, Merilu, 2AS	Sudan
Ritchie, Malcolm L., 1E	Lubbock
*Ritchie, Mrs. Mary Frances, 4AS	Lubbock
*Ritter, Inez, 3AS	Sweetwater
Ritter, L. A., Jr., 4AS	Sweetwater
Rives, Joe F., 3E	Borger
Rixse, Roy Chester, 1AS	Imperial
Roach, Clayton, 4A	Lockney
*Roach, Mary Adele, 1AS	Shamrock
Roach, Ruth, 1HE	Ellisville
*Roark, Mrs. Lucy E., Grad	Idalou
Robb, David, 2AS	Gainesville
Robbins, Jack, 1AS	Ft. Worth
Robbins, Kenneth Willie, 3E	Dallas
Robbins, Lee, 1AS	Littlefield
*Roberson, Gladys, 4AS	Spur
*Roberson, Ireta Faye, 2E	Lockney
Roberson, J. B., 1AS	Lockney
Roberts, Bob, 2AS	Amarillo
Roberts, Dick, 4AS	Lubbock
*Roberts, Eloise, 1AS	Tahoka
Roberts, Evan, Jr., 2E	Memphis
Roberts, J. A., 2E	Skellytown
Roberts, Joe Harry, 3E	Canyon
Robertson, Andrew Briggs, 1AS	Slaton
*Robertson, Beryl, 4HE	Tahoka
*Robertson, Betty Jane, 1AS	Levelland

*Robertson, Edith, 3AS	Tahoka
*Robertson, Ernest, 3E	Lubbock
Robertson, James Henry III, 3E	Aspermont
Robertson, Joe William, 2E	Colorado City
Robertson, Max Dale, 1AS	Lubbock
Robertson, Melvin Clarence, 2E	Lubbock
Robertson, Winston M., 4AS	Lorenzo
*Robinson, Geraldine, 2AS	Littlefield
*Robinson, Helen Chrystelle, 4AS	Lubbock
Robinson, Jack, 3E	Capitan, N. M.
Robinson, Jack, Jr., 3E	Paducah
*Robinson, Lometa, 3AS	O'Donnell
Robinson, M. H., 2E	McAllen
Robinson, Samuel, 1AS	Lubbock
Robinson, William F., 2E	Post
*Roco, Jeanne, 1AS	Houston
Roddy, Wesley Monroe, 4A	Denison
Roden, Jim Roy, 1AS	Friona
Rodgers, Dan, 1AS	Post
Rodgers, Deane, Grad	Lubbock
Rodgers, Earl, 2E	Wichita Falls
Rodgers, J. T., 3A	Lubbock
Rodgers, Sidney, 2E	Plainview
*Rodgers, Sylvia Jannelle, 1AS	Gorman
Rodgers, William Davis, 1E	Winters
*Rodgers, Wilma Avo, 3HE	Lubbock
Roebuck, Owen, 3E	Olton
Rogers, Arol, 3E	Breckenridge
*Rogers, Dorothy Jane, 2AS	Lubbock
Rogers, Doyle, 1AS	Allison
*Rogers, Elizabeth Ruth, 3AS	Alpine
*Rogers, Inez, 1AS	Colorado City
*Rogers, Pauline, 4HE	Idalou
Rogers, Ray, 4AS	Allison
Rogers, Sidney Lee, 4A	Shallowater
Rogers, Thomas Edmund, 2AS	Hobbs, N. M.
Rogers, Thomas Edwin, 4AS	Lubbock
*Rogers, Vesta Grace, 3HE	Lubbock
Rolley, Hal, 2E	Joinerville
Romine, John W., 2E	Valley Mills
*Rooney, Elizabeth Grace, 1HE	Ft. Stockton
Rorex, Edward, 1AS	Panhandle
Rose, Daisy Jo, 1AS	McAdoo
Rose, Juanita Carl, 4HE	McAdoo
Rose, Nuge Johnson, 3A	McAdoo
Rose, Rex Ralph, 4AS	Pampa
*Rosenquest, Helen Jeanne, 3AS	Eastland
Ross, Douglas W., Grad	Lubbock
Ross, Geo. O., 4AS	Littlefield
Ross, Harold Gay, 2E	Rusk
Ross, James Floyd, 2AS	Hereford
*Ross, Lorraine, 3AS	Stratford
*Ross, Velma Dee, 1AS	Lubbock
Rosser, Billy Allen, 2E	Cleburne
Rosson, Renal B., 3AS	Snyder
*Rountree, Lola Frances, 3AS	Hale Center
Rowden, Wayne, 1AS	Brownfield
*Rowland, Mrs. Annie N., Grad	Lubbock
*Rowland, Dortha, 2AS	Sweetwater
Rowland, Hugh, 2E	Lubbock
Rowland, Keefe H., Grad	Vernon
*Rowley, Agnes, 4AS	Pratt, Kans.
*Ruch, Dorothy, 1AS	Ft. Worth
*Rucker, Alice Elizabeth, 4HE	Abilene
Rush, George Rufus, 1A	Lubbock
*Rushing, Bonnie, 2AS	Farwell
Rushing, Norman Milton, 2AS	Calvert
*Rushing, Roberta, 3HE	Farwell
Russ, Ernestine, 1AS	Lubbock
*Russell, Alice Lee, 1AS	Lubbock
*Russell, Billie Christine, 2HE	Turkey
Rushall, Rendal, 4AS	Robstown
*Rutherford, Vivian, 2AS	Anton
Rutledge, Max, 3AS	Lubbock
Rutledge, Thomas Edgar, 4AS	Childress
*Ryan, Mary Jo, 2AS	Lubbock
Ryan, Moffett, 4A	Lubbock
Ryder, Marion, Jr., 1E	Gilliland
Saffell, Leon, 3A	Lubbock
Salazar, Ramon, 3E	Anton
*Salem, Margaret (Peggy), 1AS	Morton
Salter, Robert Lee, 1AS	Mabank
Sams, Billy Joe, 1AS	Benjamin
*Sams, Gertrude, 3AS	Benjamin
Sams, Robert L., 4E	Benjamin
Samson, Armond, 1E	Lubbock
*Sander, Lorene, 2AS	Slaton
Sanders, Loyd, 2AS	Lubbock
*Sanders, Norma, 4HE	Lubbock
Sanders, Samuel Kerr, Jr., 1E	Ft. Worth
*Sanderson, Bernice Irene, 3AS	Goodland
Sanderson, Glen, 4A	Lubbock
Sanderson, V. C. (Sandy), 4AS	Lubbock
Sandidge, G. T., 2AS	Tarpley
Sansom, A. B., 1AS	Lubbock
*Sarchet, Edith Margaret, 2AS	Tulia
Sasser, Wallace R., 4E	Bonham
Satterwhite, J. W., 1E	Post
Saul, James, 4A	Miami
*Saunders, Jeanne, 1AS	Morton
*Saunders, Joyce, 1AS	Lubbock
Saunders Kenneth, 2E	Odesa
*Savage, Betty, 4HE	Lubbock
*Savage, Mrs. Ivy G., Grad	Lubbock
Savell, Lucille, 3AS	Slaton
*Sawyer, Joy, 1AS	Brownfield
Scarborough, Milton Gerald, 1E	Lubbock
*Schelhaugen, Dorothy Dell, 3AS	Amarillo
Schilling, Oscar Arthur, 3E	Amarillo
*Schlueter, Ellene, 2AS	Roby
Schmid, Robert, 3E	Lowell, Ariz.
Schmidt, Gustav Durward, 2A	Lamesa
*Schneemann, Helen, 2AS	San Angelo
*Schneider, Heidi, 1A	Pampa
*Schoolcraft, Sarah, 1AS	Lubbock
Schoppa, Elroy, 1AS	Vernon
*Schultz, Frances Ruth, 4AS	Abilene
*Schuster, Dorothy Mae, 1HE	Muleshoe
Schuster, Robert Glenn, 1E	Perryton
*Schwartz, Dorothy Rose, 2AS	Lubbock
Schwartz, R. C., 1E	Winters
Schweitzer, William Houston, 2E	Matador
*Sciencie, Jeanne, 2AS	Lubbock
*Scott, Barbara Jayne, 1AS	Amarillo
Scott, Cecil Chance, 3E	Lubbock
Scott, Carl Preston, 1AS	Clovis, N. M.
Scott, Frank M., 3AS	Lubbock
Scott, I. S., Jr., 3AS	Hart
*Scott, June Katherine, 1AS	Slaton
Scott, Lee R., 3AS	Olney
*Scott, Lula Alice, 2HE	Lipscomb
Scott, Paul Douglas, 1AS	Dodson
Scott, Prince, 4AS	Grapevine
Scott, Robert, Jr., 3A	Sylvestor
Scott, Robert V., 1E	Floydada
Scott, Samuel Price, Jr., 1AS	Petersburg
*Scott, Mrs. Vonnell Caudle, 3AS	Lubbock
*Scribner, Irvine, 4AS	Mobeetie
Seale, Laura Carolyn, 4AS	Lubbock
Seale, Mary Louise, 1AS	Lubbock
Seale, Wortham, 1AS	Lubbock
*Seaman, Christine, 1AS	Lockney
Sears, Elizabeth, 3HE	Amarillo
Sears, Robert L., 1AS	Lubbock
*Selby, Patricia Marie, 1AS	Lubbock
Selby, William Richard, 4E	Dallas
Self, Boyd Allen, 1E	Elida, N. M.
*Self, Lottie, 3AS	Lamesa
Seljos, Rudolph, 3E	Clifton
*Sell, Lois Vincent, 4AS	Dalhart
*Sellers, Merle, 4HE	Rising Star
Selmon, Tony, 3AS	Stamford
Senning, Charles, 1AS	Spur
Serrurier, Theo, 3E	Ft. Worth
Service, S. V., 2E	Plainview
*Sessums, Betty Jean, 1HE	Dallas
*Settle, Mary Lucy, 3AS	Abernathy
Settle, W. T., 2E	Abernathy
Sewait, Avon James, 1AS	Roby
*Sexton, Dorothy Fay, 1AS	Brownfield
Shackelford, Gordon, 4E	Friona
Shaddix, Ryland D., 3AS	Shamrock
Shaffer, Garnet Carl, 3AS	Lubbock
Shahan, Lina Lee, 2HE	Lipscomb
Shaikewitz, Ted, 2E	Ft. Worth
*Shanafelt, Janell, 2AS	Bryson
Shanks, Jack, 4AS	Big Spring
Shannon, P. B., Jr., 2AS	Levelland
Sharp Frank, 4E	Tulia
Sharp, James P., Jr., 4A	Tulia
Sharpe, Hugh Martin, 4AS	Detroit
*Shaunty, Mary Ann, 1HE	Alvord
Shaver, Dorwyn, 1AS	Bayleyboro
Shaver, Douglas Garnet, 1AS	Bayleyboro
*Shaw, Aural Cordelle, 1AS	Olton
Shaw, E. W., Jr., 1A	Lubbock
Shaw, Harry James, Jr., 3A	Lubbock
Shaw, Norman J., 1AS	Olton
Shaw, Rodrick Lucian, 1AS	Breckenridge
Shaw, William, 1AS	Pampa
Shearer, Rex Markel, 1E	Hermleigh
Sheehan, Richard M., 4AS	Dalhart
Sheets, Ernest Dase, 1A	Dalhart
*Shell, Bertie Jo, 1AS	Ralls

Shellberg, Bob, 3E	Ft. Worth	Smith, J. E., 1A	Brownfield
*Shelton, Dorma Lee, 2HE	Merkel	Smith, Jerome Allen, 4E	Pampa
Shelton, Holloway, 1A	Odell	Smith, Joe Clinton, 2E	Holliday
Shelton, Travis, 2AS	Tahoka	Smith, Joe L., 2E	Dalhart
Shelton, Truman Francis, 2AS	Slaton	Smith, Joe T., 2A	Floydada
*Shepard, Juanita Maxine, 4HE	Childress	Smith, John Everett, 3E	Amherst
Shepherd, Bruce, 1A	Post	*Smith, Juanice, 3E	Lubbock
Shepherd, Don, 2E	Goose Creek	Smith, Leon Allen, 1E	Lubbock
*Shepherd, Gertrude, 1HE	Post	*Smith, Lols, 1AS	Gibson, N. C.
*Sheriff, Velna Juanita, 4AS	Lubbock	*Smith, Lola Jean, 4HE	Lubbock
Sherman, Norma, 1HE	Mineola	*Smith, Lolie Glynn, 4AS	Groesbeck
*Sherrill, Beatrice, 1AS	Tahoka	*Smith, Louise, 1AS	Lubbock
Sherrod, Herman Ray, 2AS	Post	*Smith, Margaret Benton, 2AS	Justiceburg
Sherrod, Merle, 1AS	Lubbock	*Smith, Marion Irma, 2AS	Magic City
*Sherrod, Neoma Adele, 2AS	Big Spring	*Smith, Mary Beth, 1AS	Graham
Sherwood, Charles, 2E	Roaring Springs	*Smith, Mary Lorraine, 3AS	Plainview
Sherwood, John, 1AS	Roaring Springs	*Smith, Mary Lucille, 1AS	Benjamin
*Shield, Mrs. Eupha, 3AS	Snyder	*Smith, Naomi, 4HE	Muleshoe
Shields, Marvin Louis, 2AS	Lamar, Okla.	Smith, O. Pecos, 4AS	Whiteface
Shinn, Mrs. John C., Grad	Plainview	*Smith, Mrs. Pearl H., 3AS	Lubbock
*Shipp, Bernice Hazel, 4HE	Lubbock	Smith, Pryor Wilson, 1AS	Stockton
Shirey, Gerald Ward, 3E	Mineola	Smith, Raymond J., 4E	Lockney
*Shirey, Mary Lanell, 3AS	Floydada	Smith, Robert Lee, 4A	Rising Star
*Shive, Billie Bess, 2AS	Big Spring	Smith, Roger, 3AS	Lubbock
Shoemaker, Clinton Duke, 3AS	Jacksonville	Smith, Roy Lavern, 2AS	Little Rock
*Shoemaker, Freelin, 2AS	Abilene	Smith, (William) Sanford, 1AS	McLean
Shoemaker, Hart, 4AS	Abilene	Smith, Vester Lee, 2AS	Snyder
Shoemaker, James Lloyd, 1AS	O'Donnell	Smith, Wallace W., 3AS	Levelland
Shofner, John Cleabern, 3AS	Lamesa	Smith, Wayne W., 4AS	Lubbock
Shofner, Nuell Oley, 2E	Lamesa	Smith, Wilford Davis, 4AS	Ropesville
Shofner, Orville Walter, 3AS	Levelland	*Smithee, Betty Nell, 2AS	Fritch
Short, Robert Sterling, 3E	Lubbock	Smoots, Dan R., 4AS	Lubbock
*Shottenberg, Marjorie, 2AS	Wheeler	*Sneed, Marjorie Yvonne, 1AS	Wellington, Kans.
Shoup, Noel E., 4A	Dublin	Snellemann, Laurance William, 2AS	Lubbock
Shows, Lewis, 4E	Donna		
*Shryock, Betty, 3AS	Pampa	Snider, Jesse Hugh, 1AS	Colorado City
Shuler, H. C., 3E	Snyder	Snively, Robert Clark, 1AS	Abilene
Shytle, Powell, 1AS	Snyder	*Snow, Nell R., 1HE	Abilene
Sibley, Lonnie, Jr., 1AS	Wink	*Snow, Wilondine Elizabeth, 1HE	Dallas
*Sides, Geraldine, 4HE	Lubbock	Snure, Charles L., 3E	Moran
Sides, Jack, 1E	Kirkland	Snyder, James Layton, 4AS	Lubbock
*Silvey, Naomi, 1AS	Vernon	Snyder, Robert Lynn, 4AS	Memphis
Simmons, Belvin, 1AS	Waco	Solomon, Garland, 2A	Emmetsburg, Iowa
Simmons, Elaine, 2HE	Waco	Soper, Harland, Grad	Lubbock
Simmons, Jim, 2AS	Amarillo	Sorels, Robert W., 3E	Lubbock
Simmons, Joe Mitchell, 1E	Seagraves	*Sowder, Dorris, 1AS	Lubbock
Simmons, Margaret, 3AS	Pecos	Sowell, Maurice J., 3E	Sacramento, N. M.
Simmons, Roy Clyde, 1E	Levelland	*Spalding, Ruth, Grad	Marshall
Simms, Harold O'Neil, 1AS	Brownfield	Sparkman, John Robert, 3AS	Santa Anna
*Simonot, Sister Mary Alfred, 1AS	Lubbock	*Sparks, Mary Romans, 2AS	Lubbock
Simons, Suzanne, 1AS	Colorado City	*Sparks, Nancy Lee, 3HE	Panhandle
Simpson, Betty Guy, 1AS	Lamesa	Spear, Odell, 1AS	Brownfield
Simpson, Jack L., 2AS	Abilene	*Spear, Velma Dean, 3HE	Childress
Simpson, Weldon Leroy, 3E	Waialua, Hawaii	Spears, W. S., Jr., 3A	Ft. Worth
Sims, Billy, 1AS	Fluvanna	Speck, Roy Edwin, 2AS	Lamesa
Sisk, Jackson Lafayette, 1AS	Levelland	*Speer, Frances Lee, 3AS	Dickens
*Sittin, Emily Violet, 2AS	Petersburg	Speer, James Brooks, 1A	Idalou
Sitton, Frank, 1A	Petersburg	*Spencer, Catherine Louise, 4HE	Dumas
Skeen, Kelly, 3AS	Carlsbad, N. M.	*Spencer, Jean, 3HE	Ralls
*Skinner, Emogene, 1AS	Lubbock	*Spencer, Marjorie Ruth, 3AS	Midland
Skinner, Robert Volney, 2E	Perryton	Spencer, Robert A., 3A	Carlsbad, N. M.
*Slagel, Catherine, 2AS	Colorado City	Spencer, Rodney Leroy, 2AS	Midland
Slaton, Clyde, 2AS	Sweetwater	*Spencer, Sara, 3HE	Lubbock
Slaughter, Si, 3E	Glorieta, N. M.	Spencer, W. B., 1AS	Ralls
Sleeper, James Lockert, Jr., Grad	Waco	Spikes, Robert F., 3E	Tahoka
*Sloss, Lucille, 1HE	Seagraves	Spikes, LeRoy, 1AS	Roscoe
Slover, J. W., 4E	Memphis	Spitler, Frank Russell, 4AS	Lufkin
*Smallwood, Virginia, 4AS	Lubbock	*Spotts, Gerald, 2HE	Lynn, Ark.
Smart, V. C., Jr., 2E	Spur	Sprague, Gerald, 4AS	Canadian
*Smiley, Olive, 2HE	Roaring Springs	Sprague, Marlon (Buddy), 1AS	Lubbock
Smith, Allen, 3AS	Cumby	Sprawles, Irving Loyd, Jr., 1AS	Lubbock
Smith, Ava Louise, 1AS	Whiteface	Sprawles, H. G., 1A	Tulia
Smith, Bernarr Wood, 1AS	Snyder	*Sprawles, Maxine, 1AS	Lubbock
Smith, Bonnie Lyle, 1AS	DeKalb	*Spring, Lydia Marie, 1AS	Friena
Smith, Bryson Herrell, 1A	Cumby	Spring, Paul, 4AS	Friena
Smith, Charles, Jr., 1A	Lubbock	Springer, Berl Maurice, 3E	Memphis
Smith, C. Elton, 3AS	Skellytown	*Springer, Beatrice Verna, 1AS	Lubbock
*Smith, Civola, 1AS	Dike	Sprouis, James Clifton, 4AS	Jayton
Smith, Donald Lynn, 1A	Lubbock	*Squires, Margie Frances, 3AS	Shallowater
Smith, Drucilla, 3HE	Lubbock	Squyres, Berry N., 1AS	Lubbock
Smith, Edna Mae, 3HE	Floydada	Stagner, Ellis, 1AS	Amherst
Smith, Elizabeth Anne, 1AS	Brownfield	*Stalcup, Barbara Ann, 2AS	Lubbock
Smith, Elizabeth Jane, 3AS	Lamesa	*Stalcup, Evelyn Lee, 2HE	Lockney
Smith, Elmore, 2AS	Floydada	*Staley, Annie Belle, 4AS	Ringgold
Smith, Ernest, 2AS	Colorado City	Staley, L. M., Jr., 3A	Lubbock
Smith, Etta LaVerne, 1HE	Lamesa	*Staley, Mrs. L. M. (Jane Hale), 4AS	Lubbock
Smith, Florene, 4AS	Lubbock	Stallard, O. D., 3E	Dallas
Smith, Geneva, 4AS	Rising Star	Stalls, James, 1A	White Deer
Smith, Georgia Lamb, 3AS	Lubbock	Stamps, Floyd Milton, 2AS	Sweetwater
Smith, Howard, 1A	Rails	Standeford, John Prather, 3AS	Clinton
Smith, James, 2AS	Hedley	*Stanfield, Evelyn, 1AS	Anton
Smith, J. D., 1AS	Lubbock	*Stanford, Joy, 3AS	Lubbock

*Stangel, Mary Menon, 1AS	Lubbock
*Stanley, Wilma, 2HE	Levelland
*Stanton, Betty Jane, 1AS	Haskell
*Stanton, Martha, 4AS	Bogata
*Stapleton, Doris LaRue, 4AS	Midland
*Stapleton, Lula, 2E	Flomot
*Starkey, Johnie, 3A	Muleshoe
*Starkey, Robert, 2E	Muleshoe
*Statham, Sammy Louise, 4E	Cisco
*Stavely, John Allen, 1AS	Fluvanna
*Stavio, Eddy Benhard, 4E	Gruver
*St. Clair, Ernest, 1AS	Lawton, Okla
*St. Clair, John, 3AS	Seymour
*Steadman, John Kirby, 1AS	Trent
*Steed, Charles V., 2E	Clovis, N. M.
*Steed, T. M., 3AS	Atlanta
*Steele, Betty Jo, 1HE	Lone Wolf, Okla.
*Steele, Joe C., 3AS	Allison
*Steen, Daniel, 3A	Becton
*Stence, Henry Douglas, 1A	Lorenzo
*Stengel, Paul P., 4AS	Munday
*Stephens, Clarence, 4AS	Ropesville
*Stephens, Daphne, 1HE	Roby
*Stephens, Dorothy Mae, 2AS	Lubbock
*Stephens, Sharon (Bobbie), 1AS	Lubbock
*Stephens, Truman Leonard, 2AS	Lubbock
*Stephenson, Anita, 2AS	Lubbock
*Stephenson, Charles, 3A	Canyon
*Stephenson, Douglas, 1A	Sweetwater
*Stephenson, Mary Ann, 1AS	Lubbock
*Stevens, Doris, 2AS	Houston
*Stevens, Gwendolyn, 2AS	Lubbock
*Stevenson, L. M., Jr., 2E	Ft. Worth
*Stewart, Bruce Eugene, 1AS	McLean
*Stewart, Charles A., 2AS	Aspermont
*Stewart, Mrs. Christine Warren, Grad	Lubbock
*Stewart, Patricia Lee, 1HE	Payette, Idaho
*Stewart, Rachel Anne, 2HE	Lubbock
*Stewart, Ruby Edna, 1E	Slaton
*Stice, Harold, 1E	Brownfield
*Stiles, Nancy Jim, 2AS	Clarksville
*Stillwell, Delford, 1A	Newlin
*Stillwell, Doris, 1AS	Memphis
*Stinson, Corinne Isabel, 1HE	Morton
*Stinson, Melvin Eugene, 1A	Itasca
*Stipp, George W., 2E	McAllister, Okla.
*Stokes, Charles G., 4E	Bonham
*Stokes, Garland, 2A	Lubbock
*Stokes, James, Jr., 1AS	Littlefield
*Stokes, Winona, 1AS	Lubbock
*Stone, Clyde, 2AS	Sherman
*Stone, Florence, 3HE	Muleshoe
*Stone, James Robert, 1E	Dallas
*Stone, Joyce, 4AS	Sudan
*Storey, David Clark, 2A	Littlefield
*Storm, Ima Jean, 1AS	Clovis, N. M.
*Storrs, C. L., 4AS	Lubbock
*Story, Ernestine, 4HE	Tahoka
*Story, James Richard, 2E	San Angelo
*Story, T. J., Jr., 4AS	Vernon
*Stout, LaVerne Kenneth, 3E	Dalhart
*Stovall, Dorothy Dell, 2HE	Floydada
*Straley, A. C., Jr., 1AS	Lubbock
*Strawn, Douglas, 3E	Lubbock
*Strawn, Hurshel Clayton, 2AS	Lubbock
*Strawn, Wesley Howard, 4A	Clarendon
*Street, Alice Lynn, 4AS	Littlefield
*Street, Weidon, 3AS	O'Donnell
*Street, Wm. Donald, 4A	O'Donnell
*Street, W. E., 4E	Lubbock
*Strickland, A. C., Jr., 1E	Slaton
*Strickland, Fred Earl, 1AS	Lubbock
*Strickland, Harry N., 1AS	DeLeon
*Strickland, Netha Levenia, 2AS	Enochs
*Strickland, Reid, 2AS	Floydada
*Stricklin, Buck, 1AS	Clovis, N. M.
*Strother, Ann Jack, 3HE	Anna
*Stuart, Lee, 2E	Ft. Worth
*Stubblefield, Berna Dene, 2AS	Woodson
*Studhalter, Walter, 3E	Lubbock
*Sturdivant, Ford, 4AS	Big Spring
*Sturgeon, Erva K., 4AS	Lubbock
*Sublett, Jack, 4E	Merkel
*Sudduth, Dery, 4AS	Eden
*Suffall, Mary Martha, 1AS	Idalou
*Sugarek, Charles L., 1AS	Beeville
*Sugarek, Richard C., 2A	Beeville
*Suggs, William W. Jr., 1E	Crosbyton
*Suiter, Melba, 3AS	Lubbock
*Sullivan, Margaret Louise, 3AS	Lubbock
*Sullivan, Margie Annette, 2AS	Lubbock
Sullivan, Pat, 2AS	Muleshoe
Summers, John O., 2AS	Rusk
Sumner, Oscar William, Jr., 3A	Lubbock
*Surratt, Carolyn Priscilla, 1AS	Pampa
*Surratt, Robert, 4AS	Pampa
Sursa, Lloyd Welton, 2AS	Childress
Svetlik, J. Frank, 4E	Bay City
Swalm, Howard, 3E	Wichita Falls
Swann, Joyce B., 3AS	Plainview
Sweatman, Tom W., 4E	Pampa
*Sweatt, Wardell, 2AS	Munday
Swetnam, Robert H., 3A	Lubbock
Symes, Clarence, Jr., 4E	Abilene
Tabor, Alvis Elmo, 4A	Sagerton
Tabor, Warren Gene, 2AS	Lubbock
*Tankersley, Bertice, 1AS	Lubbock
Tannahill, Clifton, 2E	Ft. Worth
Tannahill, Wilborn, 1A	Lockney
*Tarter, Lillian, 3AS	Friona
Tate, Ernest, 4A	Lubbock
Tate, Milton Gordon, 1AS	Goldthwaite
Tate, Sammy, 1A	Lubbock
Tatum, Delton Frances, 1AS	Lovington
Taylor, Douglas E., 3E	Loraine
Taylor, Dwayne, 2E	Lubbock
*Taylor, Elmira May, 2AS	Seminole
*Taylor, Guyneth Evelyn, 2AS	Roaring Springs
Taylor, Kenneth D., 3AS	Hillsboro
Taylor, Melvin, 2E	Ft. Worth
*Taylor, Peggy, 1HE	Lubbock
Taylor, Charles Richard, 1AS	Hobbs, N. M.
Taylor, Sherman Elby, 4A	Lubbock
Taylor, Sims, 1A	Lubbock
Taylor, Wilbert Millage, 3A	Plains
Taylor, Wilton, 1AS	Lubbock
Taylor, W. J., 1AS	Tahoka
Teague, Abner F., 4E	Gainesville
*Teague, Frankie Lou, 2AS	Antone
Teague, J. O. Jr., 1AS	Lubbock
*Teal, Lula, 1AS	Floydada
*Temple, Mrs. Byrnes, 4AS	Lorenzo
*Temple, Jane, 1AS	Lubbock
*Temple, Kathrynne, 3AS	Lamesa
*Templeton, Johnnie Faye, 2HE	Shamrock
Terrell, Dean, 1A	Darrouzett
Terrell, Deverall, 4AS	Rotan
*Terrell, Mrs. Ethel K., Grad	Lubbock
Terrell, Glenn Morris, 3E	Vernon
Terrell, Lewis, 3AS	Lubbock
Terry, H. M., 3AS	Dallas
Terry, J. Stuart, 2E	Roby
Teter, T. J., 4AS	Snyder
Tevis, Cecil, 1AS	Pryor
*Thacker, Opal, 1HE	McLean
*Thaxton, Bettye Alyce, 1HE	Littlefield
*Thaxton, Earnest Leonard, Jr., 1A	Lubbock
*Thaxton, Rosa, 1HE	Lubbock
*Thomas, Geraldine, 1AS	Texico, N. M.
*Thomas, Harold John, (Tommy), 1AS	Lubbock
*Thomas, Helen Frances, 3AS	Lubbock
*Thomas, Hugh, 4AS	Lubbock
*Thomas, Lewis B., Grad	Lubbock
*Thomas, Reble Luther, 1AS	Post
Thomason, Cecil Earl, 2AS	Sweetwater
*Thompkins, Myra Jeane, 1AS	Cisco
*Thompson, Anita Lankford, 2AS	Lubbock
*Thompson, Carey, 3E	Artesia, N. M.
Thompson, D. A., 4E	Brownfield
Thompson, Elbridge, 2AS	Lubbock
Thompson, Fred, 3E	Abernathy
Thompson, Harold Reid, 3E	Denver, Colo.
Thompson, Harry James, 3E	Ft. Worth
Thompson, James, 4A	Bovina
Thompson, James Lacy, 1AS	Goldthwaite
Thompson, Lee LaVera, 2E	Iowa Park
Thompson, Lewis Martin, 4E	Vernon
Thompson, Lonnie Dayle, 2E	Wellington
Thompson, Noel Edgar, Grad	Lubbock
Thompson, Pete, 1AS	Abernathy
Thompson, Robert D., 4AS	Hubbard
*Thormann, Vera, 2HE	Loraine
Thornburgh, John, 2E	Wichita Falls
Thornton, Melvin, 1AS	Littlefield
*Thornton, Patty, 2HE	Lueders
Threadgill, Joy D., 1AS	Lubbock
*Thruston, E. Catharine, 1AS	Lubbock
Thurman, Bill, 1E	Lubbock
Thurman, James Udell, 1AS	Anson
Tibbets, Richard Ross, 2AS	Quitaque
Ticer, Tolbert, 3A	Mt. Pleasant
*Tidwell, Frances Ione, 3HE	Lorenzo
Tilger, Smith, 2A	Meadow

*Tiller, Pauline, 2AS	Muleshoe	Vinson, Furman, 3AS	Flomot
*Tillery, Clarence Edward, 3AS	Grapevine	Vinson, Teddy R., 1A	Ackerly
*Tilston, Vera Mae, 3AS	McAdoo	Vinyard, Wren, 2A	Turkey
Tims, H. C., Jr., 1E	Claude	Viriden, Charles David, 3AS	Lubbock
*Tinkler, Mary Louise, 4AS	Lamesa	Volz, Norman, 3A	Ft. Cobb, Okla.
*Tinkler, Ruth, 2AS	Lamesa	Waddell, Vindex Hodge, 4E	Athens
Tinney, T. J., 2A	Alvord	*Wade, Beverly, 2AS	Ft. Worth
*Tinney, Wilma, 3HE	Twitty	*Wade, Ruth Mazie, 4AS	Hagerman, N. M.
*Tippit, Doris Nell, 2HE	Lubbock	Wadsworth, Cecile, 1E	Claude
*Tipton, Margaret Marie, 2AS	Plainview	Waggoner, Noel Oliver, 3E	Amherst
Tipton, Talmage H., Jr., 1AS	Post	*Wagner, Bobbie, 1HE	Balmorhea
Todd, David Clifton, 2E	Slaton	Wagnon, Howard, 2AS	Hamlin
Tomlinson, Elmer Howard, 2E	Port Arthur	Wainscott, C. Weldon, 1A	Milford
*Tomlinson, Vada Belle, 4AS	Mineral Wells	Wakeland, Mancel, 2A	Enochs
Tompkins, Jack, 1AS	Throckmorton	Walden, Clifford T., 3E	Slaton
Tooke, Walter Y., 2E	Pueblo, Co.	Waldrep, Sandy, 2AS	Littlefield
*Toombs, Fern, 4AS	Meadow	*Wales, Blanche, 3HE	Silverton
Toomim, Leonard Art, 2AS	Sundown	Walker, Alton Bedford, 1A	Altus, Okla.
Townes, Lottie Jo, 4AS	Tahoka	Walker, Aubrey Sterman, 3AS	Lubbock
*Townley, Wanza Lou, 4HE	Paducah	Walker, Dale, 4AS	Littlefield
Townsend, J. E., 1AS	Rule	*Walker, Eddythe, 4AS	Sweetwater
*Tramel, Marie, 1AS	Whiteface	Walker, F. V., 1AS	Olton
Trammell, DeTroy, 1AS	Mundav	Walker, Helen, 2HE	Lubbock
Travis, Harold, 1AS	Lubbock	Walker, I. D., 1AS	Memphis
*Travis, Ruby Gilbert, Grad	Floydada	Walker, Jack Edward, 2AS	Levelland
Travis, Walter F., Grad	Floydada	Walker, Joe O., 2E	Britton
Treadwell, Howard R., 3AS	Shallowater	*Walker, Merle, 4AS	Lubbock
Tredway, Blandina, 4AS	Lubbock	*Walker, Pollyanna, 1AS	Lubbock
Trenton, Patrick Henry, 3AS	San Antonio	Walker, W. Neill, 3AS	Lubbock
Tressel, James W., 3AS	Ft. Warren, Wyo.	Walkup, Oliver Steele, 1AS	Dawson
Trice, W. H., Jr., 2AS	Lubbock	Wall, Elmer, Jr., 4AS	Knox City
Triplett, Myrick Neal, 2AS	George West	Wall, George, 1AS	Knox City
Triplitt, Joe Will, 4AS	Balmorhea	Wallace, Don Lyle, 4AS	Colorado City
Trotter, Henry Grady, 1AS	Lubbock	Wallace, Fred, 3E	Waco
Trousdale, William Henry, 1AS	Houston	Wallace, Ralph, 1AS	Lubbock
*True, Juanita, 2HE	Lubbock	*Waller, Gertrude, 2HE	Morgan
*True, Martha Smith, 1AS	Lubbock	*Walling, Betty, 1AS	Lubbock
Tubbs, James, 1E	Lubbock	Walling, Foy, 4E	Palestine
Tubbs, Richard Irvin, 2E	Floydada	Walling, J. C., 4A	Munday
Tucker, Arthur Ralph, 2AS	Leonard	*Walling, Rachel, 1HE	Munday
*Tucker, Doreen, 1HE	Rockwood	*Walling, Ruth, 2AS	Palestine
Tucker, J. C., 1AS	Slaton	Wallis, William, Grad	Clovis, N. M.
Tucker, Peyton, 4A	Lubbock	*Walter, Joy Anne, 1AS	Lubbock
Tucker, Winfred, 2A	Meadow	Walters, Edward, 4E	Victoria
*Tudor, Rebecca, 2HE	Slaton	*Walshall, Kathleen, 1AS	Anton
Tudor, Woodie Harold, 1AS	Lubbock	Walton, Charles, 2AS	Muleshoe
*Tunnell, Mary Margaret, 3AS	Tahoka	Walton, James K., 4AS	Muleshoe
Turnbough, Richard Vanoy, 2A	Meadow	*Waltz, Glennis, 2E	Denison
*Turner, Agatha, 4E	Lubbock	Wand, Jack Allen, 3E	Lubbock
Turner, Austin L., 1AS	Lubbock	*Ward, Betty Jane, 2AS	Lubbock
Turner, Bismarck H., 4A	Lubbock	Ward, Charles Jackson, Jr., 1E	Lubbock
Turner, Jack, 4AS	Lubbock	*Ward, Elsie Mae, 2AS	Justiceburg
Turner, James Woodrow, 2E	Lubbock	Ward, Floyd, 1AS	Lubbock
Turner, John Franklin, 4E	Santa Anna	*Ward, Sappho, 1AS	Floydada
Turner, John O., 2AS	Amarillo	Wardrop, Billy, 1AS	Lubbock
Turner, Lense, 4E	Brownfield	*Ware, Mary Ann, Grad	Lubbock
Turner, Leland, 2E	Lockney	Ware, Ronald, 4AS	Seagraves
*Turner, Marion Corinne, 3HE	Lubbock	Warren, Cecil Otto, 2AS	Dahart
Turner, Ruby, 1AS	Lubbock	Warren, George Neely, 1A	Baird
*Turner, Virginia, 2HE	Friona	*Warren, LaVerne, 4AS	Lubbock
Turner, Woodrow W., 1AS	Lubbock	Warren, Leo J., 4AS	Santo
*Turner, Wylma Ruth, 2AS	San Angelo	*Warren, Vasti, 1HE	Tahoka
Turnipseed, Estelle, 3AS	Meadow	*Warren, Wanda Marie, 3AS	Big Spring
Turnentine, Daniel Bruce, 1E	Hereford	Waters, Granville E., 3E	Crowell
Twiss, Freeman Charles, 4E	El Paso	Watford, George F., 1AS	Midland
*Twitty, Meda Craig, 1AS	Lubbock	Watkins, Joe, 2A	Paint Rock
Tyler, Robert Ray, 1AS	Longworth	Watkins, John Halbert, 3A	Seagoville
*Tynes, Nina, 4HE	Lubbock	*Watkins, Marguerite, 3AS	Melvin
*Ulit, Dorothy Leigh, 2HE	Austin	*Watkins, Mary, 4AS	Slaton
Upton, Othello, 2E	Lubbock	*Watkins, Nell Marie, 4AS	Wellington
Usrey, Edward Lee, 1A	Hedley	Watkins, R. Burgin, 2AS	Panhandle
*Vallance, Dorris, 2AS	Memphis	*Watson, Cora Jean, 3AS	Lubbock
*Vance, Earlene, 2AS	Panhandle	*Watson, Eulamae, 1HE	Paducah
Van Patten, Everett H., 1E	Dallas	*Watson, Florine, 1HE	Lubbock
*Vardeman, Joanna, 2HE	Richland Springs	*Watson, Joyce LaRue, 1AS	Floydada
Vaughan, D. L., Jr., 1AS	Borger	Watson, Olin M., 2AS	Silverton
Vaughan, Gerald Audine, 4AS	Hamlin	*Watson, Opal, 4AS	Lubbock
*Vaughn, Mrs. Amy E., 4AS	Matador	Watson, T. J., 3E	Lubbock
Vaughn, Donald Alex, 4AS	Sherman	Watson, Winston, 2E	Pampa
*Vaughn, Geneva, 1HE	Hale Center	Watt, Bud, 2AS	Roby
*Vaught, Edith Louise, 1AS	Lorenzo	*Weakley, Jane, 4HE	Pecos
Vener, Robert, 1AS	Los Angeles, Calif.	Weatherby, Lee Methvin, 3E	Canadian
Verhyden, Mack, 1AS	Richland	Weatherby, Ural Gordon, 4AS	Jonesboro
Verner, Darrell, 3AS	Meadow	Weaver, Ewing, 4A	Spur
*Verner, Jean, 2AS	Rule	*Weaver, Margaret May, 2HE	Memphis
*Verner, Lillian Jerrene, 3AS	Lubbock	*Weaver, Rebecca Ray, 1AS	Weatherford
Verner, Walter Burton, 1E	Amarillo	Weaver, Stanley, 1AS	Hart
Vernon, Ernest Martin, 2AS	Amarillo	Webb, Allan, 4A	Littlefield
Vernon, Jack, 2A	Roscoe	*Webb, Ava Lee, 1HE	Abernathy
*Vernon, Mary Etta, 4HE	Lubbock	Webb, J. D., 3AS	Lamesa
Vickers, James Jarrott, 4AS	Amarillo	*Webb, Kathleen, 4AS	Roby
Vineyard, Howard, 1AS		Webb, Layton Allen, 1AS	

Webb, Nina Rose, 4HE	Lubbock	Willett, Ruby Virginia, 2AS	Whiteface
Webb, Randall, 1AS	Colorado City	Willhoit, Lucile, 3HE	Humble City, N. M.
Webb, Wade H., 1E	Itasca	Williams, Albert Roberts, 1AS	Childress
Weber, Arthur J., 3AS	Sherman	Williams, Barbara E., 1AS	Girard
Webster, J. D., 4AS	Memphis	Williams, Ben E., Jr., 3AS	Ft. Worth
Webster, Joyce D., 4A	Memphis	Williams, Mrs. Bill, 4AS	Tulia
Webster, Walter Elridge, 1AS	Lubbock	Williams, Billy D., 3AS	Haskell
Weddle, Robert, 1AS	Bonham	Williams, Daisy, 3HE	Ennis
Weeth, Kathryn, 2AS	Vernon	Williams, David C., (Buddy), 1E	Post
Weidling, Carl, 2E	Dumas	Williams, Earl Roberts, 1AS	Childress
Weiler, A. D., 2AS	Monahans	Williams, Edward, 1AS	Bronte
Weiss, George Wm. III, 1AS	Lubbock	Williams, Eleanor Ruth, 1HE	Crosbyton
Welch, Alton Doyle, 1AS	Electra	Williams, Flora Lee, 2AS	Farwell
Welch, James, 2A	Crowell	Williams, Floyd B., 2A	Troup
Wells, F. L., 1AS	Slaton	Williams, Floyd, Jr., 3E	Lubbock
Wells, Helen Frances, 1AS	Idaou	Williams, Helen Frances, 1HE	Tahoka
Wells, Jack Milton, 4AS	Lubbock	Williams, (Thomas) Jack, 2E	Dalhart
Wells, Leta Fern, 4AS	Wellington	Williams, Jack Weldon, 3E	Lubbock
Wentz, Frank Eugene, 1AS	Odessa	Williams, James Delbert, 2AS	Borger
Werner, Crowell B., 4E	Breckenridge	Williams, James Polk, 1AS	Lubbock
Wescott, J. V., 1A	Seminole	Williams, James W., III, 2AS	Marlin
West, Angeline, 3AS	Lubbock	Williams, Jean, 2AS	Lubbock
West, Helen Ruth, 1AS	Lubbock	Williams, Joe Keith, 1E	Lubbock
West, Hoy, 1AS	Wingate	Williams, Joe M., 2A	Clarendon
West, J. G., Jr., 1AS	Littlefield	Williams, John E., 4AS	White Deer
West, La'Verne, 3AS	Wingate	Williams, Johnny Elbert, 2AS	Borger
West, Loren, 4A	Farwell	Williams, J. Stanley, 4E	Amarillo
West, Robert Morton, 1AS	Dallas	Williams, Juanita, 1AS	Leveland
Westbrook, Verna, 3HE	Lubbock	Williams, Juanita Allene, 3AS	Slaton
Westerman, Wanda Jeffie, 2HE	O'Brien	Williams, Leon, 2E	Cieburne
Westmoreland, Yvonne, 1AS	O'Donnell	Williams, Lillian Margaret, 3AS	Mineral Wells
Wetsel, W. B., Jr., 2AS	Sweetwater	Williams, Lloyd George, 1A	White Deer
Wharton, Ansel Landon, 2AS	Lubbock	Williams, Norman Edwin, 1E	Liberty
Wharton, Frances Wade (Patsy), 3AS	Fort Worth	Williams, Raybern, 1AS	Sundown
Wharton, Georgie Sue, 2AS	Ft. Worth	Williams, Rex, 4AS	Bells
Wharton, Joe, 2E	Lubbock	Williams, R. L., 4E	Carbon
Wharton, Vivian Doris, 4AS	Ft. Worth	Williams, Roy Robert, 1AS	Abernathy
Whatley, H. J., Jr., 2AS	Jayton	Williams, Terrell, 1E	Lubbock
Whatley, Raymond Reagan, 1AS	Lubbock	Williams, Theron Hill, 1AS	Sylvestre
Wheat, Joe Ben, Grad	Anson	Williams, Victor Monnie, 2AS	Lubbock
Wheatley, Lois Maxine, 4AS	Pampa	Williams, Wanda Beth, 1HE	Sweetwater
Wheeler, John Bill, 2A	Eola	Williams, Wayne, 2A	Sadler
Wheeler, Jack, 4A	Mart	Williamson, Mozelle, 1AS	Dallas
Wheelock, Joyce Elwin, 3HE	Lubbock	Williamson, Ocie Hugh, 3E	Lubbock
White, Arthur Ray, 2E	Whiteface	Williford, Harlette, 4HE	Fairfield
White, Dixie, 4AS	Lubbock	Willingham, Afton, 4AS	Paducah
White, Dorothy Zoe, 2HE	Lubbock	Willingham, Mrs. Nell, 2AS	Crosbyton
White, Helen Jo, 2AS	Texico, N.M.	Willis, Floy Mae, 4AS	Wellington
White, J. B., 3AS	Vernon	Willis, Roysten E., Grad	Muleshoe
White, Jessie Burke, 3E	Lubbock	Willis, Helen Estelle, 4HE	Abilene
White, Joyce, 1AS	Crowell	Wilson, Amos Vaughan, 2AS	Sanford, Co.
White, Margaret, 2AS	Hamilton	Wilson, Carl, 1AS	Hobbs, N.M.
White, Merle, 1E	Dalhart	Wilson, Cephus B., 4E	Ft. Davis
White, Raymond, 1A	Sudan	Wilson, Edd S., Jr., 1A	Sagerton
White, Richard, 3AS	Vernon	Wilson, Frances, Grad	Lubbock
White, Ted M., 1E	Anthony	Wilson, George C., 4A	Princeton
White, Travis, 1E	Friona	Wilson, James Edgar, 2AS	Bovina
Whitehead, Kathryn, 3AS	Slaton	Wilson, Jap., 1A	Claude
Whiteley, L. D., 4AS	Lubbock	Wilson, Jimmie Lynn, 4AS	Lubbock
Whiteside, Dan, 4AS	Littlefield	Wilson, LaVerne, 1AS	Wills Point
Whitfill, Billy Ed, 3AS	Lockney	Wilson, L. G., 2AS	Lubbock
Whitis, Emmet Duwain, 3E	Kempner	Wilson, Octavia, 1AS	Lubbock
Whitmore, Dorothy Beatrice, 3HE	Lamesa	Wilson, Oran Gilbert, 1AS	Lubbock
Whitt, Eugene, 4AS	Terrell	Wilson, Oscar Bryan, 1AS	Burnet
Whitt, Kathryn, 1HE	Bronte	Wilson, Ruth Donald, 3AS	Shawnee
Whitt, Mary White, 4AS	Lubbock	Wilson, Thomas Jeff, 1E	Waco
Whitwell, Omer Dwight, 1E	McKinney	Wiman, Howard Paterson, 1E	Tulia
Whitworth, Richard, 2AS	Waco	Windwehen, Edna, 3AS	Plainview
Whorton, Billie Frances, 2AS	Anson	Wingo, Joe Vernon, 1AS	Littlefield
Whidmoyer, Fred Bixler, 3AS	Electra	Winston, Alice, 1HE	Italy
Wier, Ruebert Sam, 1AS	El Reno, Okla.	Winston, Dorothy, 2AS	Snyder
Wigton, Henry, 2E	Pueblo, Colo.	Winter, Marion Ernest, 2AS	Lubbock
Wilbanks, Julia, 4AS	Spearman	Wiseman, Helen Margaret, 2HE	Littlefield
Wilcox, Marietta, 1AS	Abilene	Wiseman, Woodrow, 4E	Haskell
Wilder, Bernard, 3E	Hereford	Witt, Jimmy, 1E	Lubbock
Wilder, Robert, 4E	Wellington	Witten, Claude, 4A	Plainview
Wiley, Nell Marie, Grad	Lubbock	Wolfe, Ava Lorene, 1HE	Seminole
Wiley, Norman Cole, 2AS	Lubbock	Wolfe, Trevor Michael, 2AS	Lefors
Wilhelm, Amy Gladys, 3AS	Lubbock	Wolfram, Bertram, 2E	Galveston
Wilkie, James Gilbert, 3E	Slaton	Wolfskill, Mrs. Eula Tince, 4HE	Lubbock
Wilkes, Roy, 4A	Floydada	Wolton, Jack, 2A	Muleshoe
Wilkins, Glen, 4A	Lubbock	Womack, Herbert Lester, 1AS	Tahoka
Wilkins, H. T., Jr., 1AS	Lubbock	Womack, James Calvin, 3A	Tahoka
Wilkins, Jean, 1HE	Krum	Wood, Alta Mae, 2AS	Lubbock
Wilkinson, Camella, 4AS	Whitefiat	Wood, Annabel, 3AS	Lubbock
Wilkinson, Claude Albert, Jr., 3AS	Troup	Wood, Barbara Jean, 2HE	Vernon
Wilkinson, William Leon, 2E	Ft. Worth	Wood, Betty Carol, 1HE	Morton
Wilkinson, Willena, 1AS	Whitefiat	Wood, Bill, 3AS	Lubbock
Wilkowski, Howard H., Grad	Athens	Wood, D. B., Jr., 4E	Olney
Willard, Aubrey L., 4E	Wellington	Wood, Eleanor Marie, 1HE	Lubbock
Willett, Felix Rogers, 2E	Amherst	Wood, Emmett, 2AS	Lubbock

Wood, James Armand, 1AS	Balboa.	Wright, Jess, Jr., 4AS	Anton
Canal Zone		Wright, J. H., Jr., 3AS	Estelline
Wood, J. Jeff, 1E	Pecos	Wright, Jim, 1A	Floydada
Wood, Joseph Young, 4AS	Galveston	Wright, John Howard, 2E	Dallas
*Wood, Teola Mae, 1AS	Denison	Wright, John Kendrick, 3E	Vernon
Wood, Vyola, 4AS	Ft. Sumner, N.M.	Wright, Neil, 3AS	Leonard
Wood, Wendell Wallace, 2AS ..	Ft. Worth	*Wright, Nina, 3HE	Shallowater
Wood, William Robert, 1E	Post	Wright, Terence, 1E	Shallowater
*Woodall, Milton, 3E	Duncanville	Wright, W. H., 3E	Graham
Woodfin, Howel Webster, 3AS	Mexia	*Wulfjen, Doris, 1AS	Colorado City
Woodfin, Virgil Ingram, 3A	Mexia	Wulfjen, James D., 1A	Colorado City
Woodley, Robert Floyd, 3E	Marshall	Wyatt, Valdee, 1AS	Paducah
Woods, Delmer Maurice, 2E	Olney	Wyly, Robert S., 2E	Friona
*Woods, Dora E., 1AS	Lubbock	Yeager, James Harold, 3E ..	Wichita Falls
*Woods, Mary Beth, 3AS	Morton	*Yeager, Mary Burk, 3HE	Lubbock
*Woods, Winifred, 2AS	Lubbock	Yeakley, Vernon J., 4E	Gainesville
Woodside, Francis Gilbert, 4AS ..	Lubbock	Yelton, Fred L., Jr., 4E ..	Alamogordo, N.M.
*Woodson, Evelyn Marie, 1HE	Lubbock	Yelton, Jack James, 2AS	Lubbock
Woodward, Albert Eggleston, Jr., 4E	Borger	York, Homer Cecil, 3AS	Snyder
*Woodward, Ellaine Elizabeth, 1AS ..	Shallowater	York, Jack, 1AS	Lubbock
*Woodward, Mary Lela, 4AS	Santa Anna	York, Jimmie, 1AS	Morton
Woody, Harry, 2AS	Anton	York, Joe Thurman, 3E	Dallas
Woody, W. Houston, 1A	Stanton	*York, Mae Dell, 2AS	Lubbock
Wooten, Herman Eugene, 1AS ..	Levelland	York, Willie Edward, 1AS	Spur
Word, Walter, 2AS	Amarillo	*Young, Elizabeth, 2AS	Westbrook
Worley, Dave R., 3AS	Douglas, Ariz.	Young, Jayson, 4E	Lubbock
*Worsham, Sarah, 4E	Sulphur Springs	Young, J. P., 1E	Levelland
Wossum, Luther Earl, 4E	Levelland	Young, Junius, 1E	Lubbock
*Wray, Roberta, 1AS	Lubbock	*Young, Mildred Katherine, 3HE	Roby
*Wren, June, 3AS	Littlefield	Young, Robert Bell, 1E	Levelland
*Wright, Ann, 3HE	Ballinger	Young, Zearl Truman, 1AS	Hawley
*Wright, Beatrice, 1AS	Eldorado	*Zachary, Mrs. Wilma, Grad	Lubbock
*Wright, Bernice Billy Wade, 1HE ..	Girard	*Zeh, Oletta, 1AS	Lubbock
*Wright, Dorothy Jane, 3AS ..	Cement, Okla.	Zeitz, Frederick Haas, Jr., 1AS ..	Lubbock
Wright, Elwood K., 1AS	Lubbock	*Zeleny, Norma Jane, 3AS	Plainview
Wright, James Clyde, 3E	Amarillo	Zellner, Julian, 2AS	Lubbock
*Wright, Janet, 2AS	Ulysses, Kans.	*Zeman, Blanche, Grad	Abernathy
		Zorns, James F., 3A	Meadow

APPENDIX

TEXAS TECHNOLOGICAL COLLEGE—ESTABLISHING AND PROVIDING FOR THE LOCATION THEREOF.

S. B. No. 103

Chapter 20

(page 32)

GENERAL LAWS OF THE STATE OF TEXAS Passed by the THIRTY-EIGHTH LEGISLATURE at the REGULAR SESSION.

An Act to establish a State College in Texas, west of the ninety-eighth (98th) meridian and north of the twenty-ninth (29th) parallel, to be known as the Texas Technological College; providing for the location of such college; its government; the control of its finances; defining its leading objects and prescribing generally the nature and scope of instruction to be given; conferring upon the Board of Directors of said College the rights of eminent domain; making the necessary appropriations for the purchase of land, the location, establishing, and maintenance of said college and declaring an emergency.

Be it enacted by the Legislature of the State of Texas

Section 1. There shall be established in this State a College for white students, to be known as the Texas Technological College, said College to be located north of the twenty-ninth (29th) parallel, and west of the ninety-eighth (98th) meridian, and shall be a co-educational College giving thorough instruction in technology and textile engineering from which a student may reach the highest degree of education along the lines of manufacturing cotton, wool, leather and other raw materials produced in Texas, including all branches of textile engineering, the chemistry of materials, the technique of weaving, dyeing, tanning, and the doing of any and all other things necessary for the manufacture of raw materials into finished products; and said College shall also have complete courses in arts and sciences, physical, social, political, pure and applied, such as are taught in colleges of the first class leading to the degrees of Bachelor of Science, Bachelor of Arts, Bachelor of Literature, Bachelor of Technology, and any and all other degrees given by colleges of the first class; said college being designated to elevate the ideals, enrich the lives and increase the capacity of the people for democratic self-government and particularly to give instruction in technological, manufacturing, and agricultural pursuits, and domestic husbandry and home economics, so that the boys and girls of this state may attain the highest usefulness and greatest happiness and in so doing may prepare themselves for producing from the State its greatest possible wealth.

Sec. 2. The government, control, and direction of the policies of said Technological College shall be vested in a board of nine (9) directors to be appointed by the Governor, who shall hold office for a period of six (6) years, said board of nine (9) directors to be so divided that the terms of three (3) directors shall expire every two years and it shall be the duty of the Governor, in making the appointment of the first board of directors, to indicate in his appointment the name of the director whose term shall expire in two (2) years, the name of the director whose term shall expire in four (4) years, and the name of the director whose term shall expire in six (6) years; all of said directors to hold their office until their successors are qualified, unless a removal is made by the Governor for inefficiency or inattention to their duties as members of such board.

The board of directors of the Texas Technological College shall provide a president thereof, who shall devote his entire time to the executive management of said school and who shall be directly accountable to the board of directors for the conduct thereof.

Sec. 3. In addition to the courses provided in technology and textile engineering, the said Texas Technological College shall offer the usual college courses given in standard senior colleges of the first class, and shall be empowered to confer appropriate degrees to be determined by the board of directors and shall offer four-year courses, two-year courses, or short-term courses in farm and ranch husbandry and economics and the chemistry of soils and the adaptation of farm crops to the peculiar soil, climate and condition of that portion of the State in which the college is located, and such other courses and degrees as the board of directors may see fit to provide as a means of supplying the educational facilities necessary for this section of the State, and it shall be the duty of the board of directors to furnish such assistance to the faculty and students of said college as will enable them to do original research work and to apply the latest and most approved method of manufacturing and, in general, to afford the facilities of the college for the purpose of originating, developing, supporting, and maintaining all of these agencies (physical, mental and moral) for the development of physical, mental and moral welfare of the students who attend the college and for the further purpose of developing the material resources of the State to their highest point of value and usefulness by teaching the arts of commerce and manufacturing. All male students attending this college shall be required to receive such instruction in military science and tactics as the board of directors may prescribe which shall, at all times, comply in full with the requirements of the United States Government now given as prerequisite to any aid extended by the Government of the United States to State institutions of this character and all such white male students shall, during their attendance at such college, be subject to such military discipline and control as the board of directors may prescribe.

Sec. 4. The chairman of the State Board of Control and the State Superintendent of Public Instruction, the President of the University of Texas, the President of the College of Industrial Arts of Texas, and the President of the Agricultural and Mechanical College of Texas shall constitute a board charged with the responsibility for the location of the Texas Technological College, a majority of whom shall be authorized to act under the terms of this bill in the location of said school; said board being restricted in the choice of location to

the area mentioned in Section 1 of this act and as soon after the passage and approval of this act as practical, said locating board shall make careful investigation of proposed sites for the said institution. Consideration shall be given to climatic conditions, supply of water, accessibility and such other matters as may appropriately enter into the selection of the desirable location of an institution of this kind. It is further provided that the said locating board shall not be influenced to any degree in the determination of its selection of a location by offers and promises of bonuses and gifts, directly or indirectly, to the State of Texas, as a consideration for the location of said college at any particular place, but a primary consideration which shall outweigh all others in the minds of the members of the locating board, shall be to locate this college where it can, in the future render the greatest service to the State and to the section of the United States for which it is especially intended; but this is not to be interpreted to mean that the board of directors shall not have authority to accept gifts of land, money for student loans, permanent improvement or any other objects of value when tendered for the purpose of more completely carrying out the purpose of this act; said gifts to be made after said school is located and established and if a suitable location for said college is offered by any city or community. The lands bought shall be so located that the administration building will be within convenient distance to the residence section of the town where located, or the place where the students reside.

Sec. 5. The said locating board shall have authority to select approximately two thousand (2,000) acres of land for the site of said college and agree with the owner or owners thereof upon the price to be paid thereof, which said agreement shall be reduced to writing and by the said locating board signed and delivered to the board of directors herein provided for, who shall thereupon have full authority to contract for the purchase of said land for said purpose, and upon the approval of the title thereto by the Attorney General of the State of Texas, to pay for said land and any improvements thereon in any sum not to exceed one hundred and fifty thousand (\$150,000) dollars.

Sec. 6. It is further provided that, when said locating board has selected a site for said college, it shall be the duty of said board to make a full and complete report of all details connected with the selection of the site for the said college to the Governor of the State of Texas. The filing of this report with the Secretary of State shall legally constitute the establishing of the college.

Sec. 7. The board of directors of the said Texas Technological College is hereby vested with the powers of eminent domain to acquire for the use of said college such land as may be necessary for the purpose of carrying out its purposes by condemnation proceedings such as are now provided for railroad companies under the laws of the State of Texas.

Sec. 8. There is hereby appropriated from the general revenue of the State, not otherwise appropriated, the following sums, or so much thereof as may be necessary:

1. Twenty-five hundred (\$2,500) dollars of the available revenue of the State, or so much thereof as may be necessary, to become available upon the passage and approval of this act, for the purpose of paying the expenses of the locating board in determining the location of said institution.

2. One hundred and fifty thousand (\$150,000) dollars of the available revenues of this State, or so much thereof as may be necessary, to become available September 1, 1923, for the purchase of the necessary lands for the location and establishment of said school, and any portion of which amount is not used for the purchase of lands shall be available for the purposes provided in the following sections thereof.

3. Five hundred thousand (\$500,000) dollars for the fiscal year ending August 31, 1924, for the purpose of providing necessary utilities, machinery, permanent improvements, equipment and buildings for said college.

4. Three hundred and fifty thousand (\$350,000) for the fiscal year ending August 31, 1925, for the purpose of providing necessary utilities, machinery, permanent improvements, equipment and buildings for said college; and

5. In the event any portion of the sums hereby appropriated should not be used for and during the year for which they are hereby appropriated, such sums shall become available for the succeeding year, for the purpose herein provided, and for no other.

Sec. 9. The fact that Texas is producing annually millions of dollars worth of raw materials, which are being shipped to distant factories to be made into finished products, together with the fact that Texas has no adequate institutions for teaching technology and the art of textile manufacturing and the fact that the needs of that portion of the State where this college shall be located are inadequately supplied with educational institutions, create an emergency and an imperative public necessity for this act to take effect at once and for the suspension of the constitutional rule requiring bills to be read on three several days, it is therefore enacted that said rule be suspended and this act take effect and be in force on and after its passage.

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ERRATA

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Line 13 follow with a new line, Defense Courses:

Line 15 Ttraining to read Training

Line 17 Primary to read Secondary

Line 18 80 to read 50