Bulletin of the Bus. Admin.
TEXAS TECHNOLOGICAL COLLEGE
LUBBOCK, TEXAS

Fifteenth
CATALOG NUMBER

WITH ANNOUNCEMENTS FOR THE ACADEMIC YEAR 1940-1941

BULLETIN

of the

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Published Monthly

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CATALOGUE NUMBER

1939-1940

with

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TEXAS TECHNOLOGICAL COLLEGE

Lubbock, Texas

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Calendar

1940

JANUARY						
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COLLEGE CALENDAR

SIXTEENTH ANNUAL SESSION

1940-41

First Semester

1940		
Sept. 11	Wednesday 10:00 A. M.	General Faculty Meeting.
Sept. 11	Wednesday	Entering Freshmen and transfer students submitting transcripts later than this date may be delayed in registration.
Sept. 11-14	Wednesday-Saturday	Preregistration consultations for all students. Payment of fees.
Sept. 12	Thursday	Divisional Faculty Meetings.
Sept. 13	Friday	Departmental Staff Meetings.
Sept. 12-13	Thursday-Friday	Entrance examinations for students not meeting the regular admission requirements. Entrance examinations taken after these dates may be taken only by paying late fee of $2.50.
Sept. 14	Saturday 8:00 A. M.	College year begins. Dormitories open. First meal noon.
Sept. 16-17	Monday-Tuesday 8:00 A. M.	Registration. Fees must be paid before scheduling classes.
Sept. 18	Wednesday 8:00 A. M.	Classes begin.
Sept. 20	Friday 5:00 P. M.	Late registration fee required after this time.
Sept. 20	Friday 8:00 P. M.	Open House for all students by the churches of Lubbock.
Sept. 21	Saturday 8:00 P. M.	Annual reception for all students and faculty by President and Administrative Council.
Sept. 22	Sunday 11:00 A. M.	Special sermon for students in Lubbock churches.
Sept. 24	Tuesday	Last day a student may register or add courses in First Semester.
Sept. 25	Wednesday 10:00 A. M.	Opening Convocation for all students and faculty. Annual address of President. Followed at 11:00 A. M. by student election of class officers for 1940-41.
Oct. 5	Saturday	Last day for filing with the Dean of Division requests to make up examinations missed or postponed, or to remove conditions incurred during the last spring semester, if not taken or made up before this date.
Oct. 12	Saturday	Date for taking examinations to remove conditions incurred during the last spring semester, if not taken or made up before this date.
Oct. 18	Friday	Parents' day.
Oct. 24	Thursday 5:00 P. M.	Progress reports on all Freshmen due in Registrar's Office.
Nov. 11	Monday	Armistice Day. Holiday.

Nov. 16	Saturday	Annual Home-coming. Classes dismissed at 2:00 P. M.
Nov. 16	Saturday 5:00 P. M.	Mid-Semester reports on all students due in Registrar's Office.
Nov. 21-23	Thursday-Saturday	Thanksgiving Holidays.
Dec. 20	Friday 6:00 P. M.	Christmas Holidays begin.
1941		
Jan. 2	Thursday 8:00 A. M.	Classes resumed.
Jan. 20-25	Monday-Saturday	Final examinations for First Semester. Payment of Fees for Second Semester.
	Second Semester	
Jan. 29-30	Wednesday-Thursday	Registration for all students for the Second Semester. Fees must be paid before scheduling classes. Entrance examinations for students not meeting regular admission requirements. Entrance examinations taken after these dates may be taken only by paying late fee of $2.50.
Jan. 31	Friday 8:00 A. M.	Classes begin.
Feb. 1	Saturday 5:00 P. M.	Late registration fee required after this time.
Feb. 7	Friday	Last day a student may register or add courses in Second Semester.
Mar. 29	Saturday 5:00 P. M.	Mid-Semester reports on all students due in Registrar's Office.
Apr. 8	Tuesday 8:00 P. M.	Annual presentation of "Seven Last Words" (by Dubois), by Prof. Blitz, Orchestra, and Chorus.
Apr. 9	Wednesday 6:00 P. M.	Easter Holidays begin.
Apr. 15	Tuesday 8:00 A. M.	Classes resumed.
Apr. 24	Thursday 11:00 A. M.	Convocation for nomination of officers of the student body.
May 2	Friday	Last day for approval of thesis outline for June candidates.
May 12	Monday	First copy of thesis due.
May 13	Tuesday 5:30 P. M.	Women's Recognition Service.
May 23-29	Friday-Thursday	Final examinations for Second Semester.
May 27	Tuesday	Last day for submission of thesis for binding.
May 30	Friday 8:00 P. M.	Annual reception to the graduating class and faculty by President, President's Home.
May 31	Saturday	General Faculty Meeting.
May 31	Saturday	Annual Alumni Banquet.
June 1	Sunday	Baccalaureate Sermon.
June 2	Monday	Commencement Day. Long session ends.
June 4	Wednesday	Summer School begins.

OFFICIAL DIRECTORY

COLLEGE YEAR 1939-40

BOARD OF DIRECTORS

OFFICERS OF THE BOARD

Joe T. Sneed, Jr., Chairman ..... Amarillo
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

Spencer A. Wells, Chairman

Milburn McCarty — Tomas G. Pollard

Building Committee

Joe. T. Sneed, Jr.

Mark McGee — Spencer A. Wells

Local Affairs Committee

Spencer A. Wells, Chairman

Charles C. Thompson — Joe T. Sneed, Jr.

Finance Committee

James M. West, Chairman

Mrs. W. R. Potter — Charles C. Thompson

Legislative Committee

Mark McGee, Chairman

Mrs. W. R. Potter — Milburn McCarty

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 Agricultural Building.

OTTO VINCENT ADAMS, B. S. in C. & 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, C-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, 1938.*
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, 205 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.

HARRY LLEWELLYN KENT, A. B., B. S., M. S., LL. D., *Administrative Assistant, 1937, 1939.*
Office, 217 Administration Building.

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, LL. D., *President, 1923, 1939.*

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

EDITH LUCILE ROBINSON, *Secretary to the President, 1924, 1937.*
B. A., Simmons; M. S., 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.

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.

T. L. LEACH, *Associate Professor of Agricultural Education and Teacher Trainer, 1937, 1939.*
B. S., M. S., Texas Technological College.

L. JEANNE WINN, *Secretary to 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, *Secretary to 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 of Dairy Manufactures and Creamery Superintendent, 1936.*
B. S., Kansas State College.

*INEZ ROSE HARMON, *Secretary to Dairy Manufactures Department, 1936.*
B. B. A., Texas Technological College.

**BESSIE BAKER, *Secretary and Chief Clerk to 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. S., 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, 1939.*
B. S., Oklahoma Agricultural and Mechanical College.

FRANKIE MAE CASE, *Secretary to Plant Industry Department, 1937.*

DIVISION OF ENGINEERING

OFFICE OF THE DEAN

OTTO VINCENT ADAMS, *Dean of Engineering and Professor of Civil Engineering, 1927, 1932.*
B. S. in C. & I. E., Colorado State College; M. S. E., Michigan.

*Resigned Feb. 1, 1940.
**Effective Feb. 1, 1940.

GEORGINA CONNER, *Secretary to the Dean of Engineering, 1931, 1932.*
B. S., 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; Diploma d'Architecture Ecole des Beaux Arts Americaine, Fontainbleau, 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.

RAYMOND 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 Chemistry and Chemical Engineering, 1930, 1938.*
B. A., Howard Payne; M. S., 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. & 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.*
B. S. in C. E., Texas Technological College.

CHARLES GARFIELD DECKER, *Instructor in Civil Engineering, 1938.*
B. S., M. S. in C. E., Michigan.

*On leave 1939-40 Long Session.

**J. FENTON HARDING, *Instructor in Civil Engineering, 1939.*
B. S., in C. E., Texas Technological College; M. S., in C. E., Armour Institute.

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.

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

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, *Assistant Professor of Engineering Drawing, 1929, 1935.*
B. S., North Texas State Teachers College.

MARGARET BRASHEARS ATKINSON, *Instructor in Engineering Drawing, 1934.*
B. S., Texas State College for Women.

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., Texas Technological College.

PETROLEUM ENGINEERING

LEROY THOMPSON PATTON, *Professor and Head Department of Geology and Petroleum Engineering, 1925.*
B. A., Muskingum; B. S., Chicago; M. S., Ph. D., Iowa.

TEXTILE ENGINEERING

MAURICE EARL HEARD, *Professor and Head Department of Textile Engineering, 1928, 1935.*
B. S. in T. E., Texas Technological College.

**Temporary Appointment.

CASSIUS MILLER STANLEY, JR., *Assistant Professor of Textile Engineering, 1937.*
B. S. in T. E., Alabama Polytechnic Institute.

DENZIL V. PROBASCO, *Instructor and Mechanician, 1938, 1939.*
B. S. in T. E., Texas Technological College.

DIVISION OF HOME ECONOMICS

OFFICE OF THE DEAN

MARGARET WATSON WEEKS, *Dean of Home Economics and Professor of Nutrition, Head Department of Home Management, 1925.*
B. A., 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, *Instructor in Applied Arts, 1937.*
B. S., 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 ANDERSON LYLES, *Assistant Professor of Clothing and Textiles, 1937.*
B. S., Iowa State College.

JOSEPHINE LOONEY, *Instructor in Clothing and Textiles, 1933.*
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.

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.

*Effective January 31, 1940.

HOME ECONOMICS EDUCATION

ADA VIVIAN JOHNSON, *Professor and Head Department of Home Economics Education, 1928, 1937.*
B. A., Southwest Texas State Teachers College; M. A., Columbia.

GERALDINE CLEWELL, *Instructor in Home Economics Education, 1935.*
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

VERNA CRUMP, *Secretary to 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.

MARGARET ELIZABETH WINKELHAKE, *Assistant Professor of Home Management, 1937.*
B. S., M. A., Missouri.

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., Pittsburg; 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.

BIOLOGY

RICHARD ARTHUR STUDHALTER, *Professor and Head Department of Biology, 1925.*
B. A., Texas; M. A., Washington University; Ph. D., Chicago.

EDWARD LOOMAN REED, *Professor of Botany, 1926, 1929.*
B. A., Oklahoma Baptist College; M. S., Ph. D., Chicago.

MILTON FREDERIC LANDWER, *Associate Professor of Biology, 1927.*
B. S., Northwestern: M. A., Nebraska; Ph. D., Michigan.

BESSIE BEAKLEY LEAGUE, *Associate Professor of Biology, 1926, 1927.*
B. A., M. A., Ph. D., Texas.

JESSIE Q. SEALEY, *Assistant Professor of Biology, 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.

CHEMISTRY

ROBERT CABANISS GOODWIN, *Professor and Head Department of Chemistry and Chemical Engineering, 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 of Chemistry, 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.

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.

MAMIE WOLFFARTH JACKSON, *Assistant Professor in Typewriting and Stenography, 1928, 1938.*
B. A., M. A., Texas Technological College.

*REGINALD RUSHING, *Acting Assistant Professor of Economics and Business Administration, 1939.*
B. A., Southwestern; M. B. A., Texas.

MAURICE JACK ERICKSON, *Instructor in Economics and Business Administration, 1936.*
B. A., Kansas; M. A., Nebraska.

*Temporary Appointment.

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., Hardin-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

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, *Part-time Associate Professor of Education and Psychology, 1934.*

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., University of Cincinnati.

ENGLISH

*ALLAN LORAINE CARTER, *Professor and Head Department of English, 1927.*

B. A., Clark; M. A., Northwestern; Ph. D., Pennsylvania

RUFUS ARTHUR MILLS, *Professor of English, Chairman of Committee in Charge, 1926, 1939.*

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

WILLIAM BRYAN GATES, *Professor of English, Member of Committee in Charge, 1925, 1939.*

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

GEORGE SMALLWOOD, *Professor of English, 1925.*

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

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

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

*Deceased, October 11, 1939.

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, *Associate Professor of English, 1927, 1937.*
B. A., Southern Methodist University; M. A., Harvard.

DONALD VAN DALE MURPHY, *Associate Professor of English, 1926, 1935.*
B. A., Tulsa; M. A., Columbia.

FLORA POWELL McGEE, *Associate Professor of English, 1925.*
B. A., Colorado College; M. A., Peabody College.

ALAN MURRAY FINLAY GUNN, *Associate Professor of English, 1939.*
A. B., Huron College; M. A., University of 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.

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 Modern Languages, 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 Foreign Languages, 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.*
B. A., Dartmouth; M. A., Ph. D., Brown.

**Effective October 16, 1939.
*On leave second semester.

EZIO LEVI D'ANCONA, *Visiting Lecturer in Spanish Literature, 1940.*
B. A., Bologna; Ph. D., Florence.

GEOLOGY

LEROY THOMPSON PATTON, *Professor and Head Department of Geology and Petroleum Engineering, 1925.*
B. A., Muskingum; B. S., Chicago; M. S., Ph. D., Iowa.

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. REITHMAYER, *Instructor in Government, 1938.*
B. A., M. A., Texas Technological College.

*SPENCER ALBRIGHT, *Instructor in Government, 1940.*
B. A., Arkansas; M. A., Chicago.

HISTORY AND ANTHROPOLOGY

WILLIAM CURRY HOLDEN, *Professor of History and Anthropology, Member, Committee in charge, 1929, 1940.*
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.

**On temporary leave beginning Jan. 1, 1940.
*Temporary Appointment, effective Jan. 1, 1940.
***On leave first semester 1939-40.
****On leave second semester 1939-40.

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.

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

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., Westminister; M. A., Missouri.

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

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.

LOYAL FRANK OLLMANN, *Instructor in Mathematics, 1939.*
A. B., Ripon College; M. A., Wisconsin; M. S., Ph. D., Michigan.

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

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., Hardin-Simmons; Pupil of Carl Venth, E. Clyde Whitlock, Jacques Gordon.

ANN ALDEN TROTTER, *Part-time Instructor in Music, 1939.*

*Temporary Appointment: Long session 1939-40 only.

PHILOSOPHY AND SOCIOLOGY

JAMES MARCUS GORDON, *Acting Head Department of Philosophy and Sociology, 1925, 1939.*
B. A., Trinity; M. A., Chicago; LL. D., Trinity.

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.

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

GEORGE BERL HUFFMAN, *Assistant Professor of Physical Education for Men, 1935.*
B. A., Trinity.

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.

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. S., Southern California.

DIVISION OF MILITARY SCIENCE AND TACTICS

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

HERROL JAMES SKIDMORE, *First Lieutenant, Corps of Engineers, United States Army, Assistant Professor of Military Science and Tactics, 1936.*
B. S., United States Military Academy; M. S., Iowa.

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

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.

LON BRYAN EZELL, *Assistant Professor of Education and English. In charge Childress Extension Center, Childress, Texas, 1937, 1938.*
B. A., M. A., Elon College; M. A., Ed. D., Texas.

HOMER MILLIKIN, *Secretary for Extension and Correspondence Courses, 1938.*
B. A., Baylor.

JANET M. McDONALD, *Secretary, Visual Aids Department, 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.

FLORA BRIGGS BLITZ, *Piano Accompaniment*
Pupil of Marcian Thalberg, Cincinnati Conservatory; John Steinfeldt, San Antonio College of Music.

JULIEN PAUL BLITZ, *Cello*
Laureate cum Laude, Royal 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. S., 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.

JOE L. HADDON, *Teacher of Brasses*

Director, Lubbock Junior High School Band.

MARGARET JOHNSON HUFF, *Piano, Organ, and Voice*

B. Mus., American Conservatory; Pupil of Lucille Tewksbury and Alice Moncrief 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 Forrest; D. D., Simmons University.

DONALD FRANKLIN WEST, *Biblical Literature, under the auspices of the Disciples of Christ Churches.*

B. A., Chapman College; 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, 1926.*
B. A., North Texas State Teachers College.

LULU STINE, *Cataloguer, 1930.*
B. A., Texas; M. A., Texas Technological College.

VIOLET MADELINE MATTSON, *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, *Loan and Reference Assistant, 1938.*
A. B., Mary Hardin-Baylor; B. S. in L. S., Illinois.

GERTRUDE BRANDES, *Loan and Reference Assistant, 1939.*
A. B., Baylor; B. S. in L. S., Columbia.

CORA FOX YONGE 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, 1935, 1938.*
B. A., Texas Technological College.

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

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

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

BERNETTA LOUISA ISBELL, *Clerk, 1939.*
B. A., Mary Hardin-Baylor College.

OFFICE OF DEAN OF MEN

JAMES GEORGE ALLEN, *Dean of Men, 1927, 1938.*
B. A., Southern Methodist University; M. A., Harvard.

LORENE CHILDERS HARDING, *Secretary, 1937.*
B. A., Texas Technological College.

CALVIN HAZLEWOOD, *Assistant, 1937.*

OFFICE OF 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, 1937.*
B. A., Texas Technological College.

DORMITORY STAFF

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

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

*PAULINE EDGETT, *Secretary and Assistant Dietitian, 1938.*
B. S., Texas Technological College.

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

MR. AND MRS. ELVA BAKER, *Social Directors, Men's Dormitory Number One, 1939.*

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

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

**MRS. J. A. GOWDY, *Secretary to Social Director of the Women's Dormitory, 1939.*

***HERTHA SCHWENKE, *Secretary to the Social Director of the Women's Dormitory, 1940.*

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, *Special Representative, 1938.*
B. A., Texas Technological College.

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

BUSINESS OFFICE

W. T. GASTON, *Business Manager, 1929.*

SETH THOMAS CUMMINGS, *Purchasing Agent, 1927.*

GUS WOOD McCLEARY, *Chief Accountant, 1931.*

HUBERT L. BURGESS, *Cashier and Bookkeeper, 1934.*

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

MARY JO COLE, *Secretary to Purchasing Agent, 1928.*

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

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

OTHER EMPLOYEES

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

*Resigned, Jan. 1, 1940.
**Resigned January 31, 1940.
***Effective February 1, 1940.

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, *Director of Sports Publicity, 1939.*

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

GWYN CLARK DOWELL, *Athletic Manager, 1939.*

ALLENE ATKINSON, *Part-time Teacher of Orientation and Secretary YMCA-YWCA, 1938, 1939.*
B. A., Texas.

LaVERNE McWHIRTER, *Director of Cooperative House, 1938.*
B. S., Texas Technological College.

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; and the Administrative Assistant, Secretary. It 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, and Assistant in Charge of Housing.

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.

ENTRANCE EXAMINATIONS

The Registrar, Barnett, Wallace, G. Clewell, Slagle, Leach, Camp, Underwood, Middleton.

SOCIAL ACTIVITIES

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

STUDENT PUBLICATIONS

Mills, Horne, J. G. Allen, 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, Atkinson, McKay.

CATALOGUE

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

ARTIST COURSE

Mills, Murphy, Blitz, St. Clair, Pirtle, Johnson, 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, an Alumni Representative, and a student Representative.

MILITARY AFFAIRS

Pettit, Skidmore, Horne, Heard, Harbaugh.

EXTENSION

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

GRADUATE WORK

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

REGISTRATION

Clement, Godeke, Sparks, Renner, Buster.

CONVOCATION

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

CAMPUS BEAUTIFICATION

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

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 6,000 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 developing.

Lubbock is located on two railroad systems, the Fort Worth and Denver City and the Santa Fe, giving it 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 ten years. The City of Lubbock has grown very rapidly. At the present time it has a population of approximately 35,000 exclusive of college students. The city is well supplied with pure water, a sewer system, modern hotels, splendid hospitals, and excellent churches. For the past ten years Lubbock has been awarded a trophy by the National Clean-up and Paint-up Bureau of Washington, D. C. for being the cleanest city in the State of Texas. The public school system of Lubbock is one of the most progressive in the State of Texas and is supplied with adequate school houses 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 climate is typical of the South Plains area with its relatively high altitude, cool nights, abundant sunshine, and healthful conditions. There are very few insect pests and no mosquitoes—therefore, a total absence of malaria.

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 campus comprises 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:

Administration Building, located at the south side of the main quadrangle of the campus; 60 by 300 feet, three stories in height; constructed of brick, with stone trimmings, tile roof, attractive towers at the east and west ends. 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. Built in 1924-25.

Engineering Building, located on the west side of the main quadrangle of the campus; a two-story building of brick and stone with floor space of approximately 52,000 square feet. 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. Built in 1927-28.

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

Chemistry Building, located west and north of the Administration Building, facing north; a three-story building, 60 by 232 feet, with one wing extending back 40 feet. Although designed originally as the Chemistry Building, at the present time it houses the Departments of Chemistry, Biology, Geology and Petroleum Engineering, and Physics. Built in 1928.

Agricultural Buildings, located southwest of the Administration Building, consist of the Agricultural Building, a one-story, temporary office and classroom building, built in 1927; the Annex to the Agricultural Building, a one-story frame building 20 x 140 feet containing additional offices, classrooms, and space for a branch seed laboratory of the State Department of Agriculture; a Stock Judging Pavilion, built in 1924, a tile and stucco building containing a large arena with tiers of seats; and a Dairy Manufactures Building, a small stucco building containing offices and laboratories for the Dairy Manufactures Department, built in 1939.

Home Economics Building, located east of the Administration Building, 40 by 80 feet, two stories in height. 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. Built in 1924.

The Nursery School Building, located near the Home Economics building, is a four-room cottage type building planned to accomodate a laboratory for the Child Development classes in the Division of Home Economics.

Home Management House, located east of the Home Economics building. It is a brick residence, two stories high, 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. Built in 1927.

West Texas Museum. The first unit or ground floor of an ultimate West Texas Museum has been erected on the campus. The ultimate building will be two stories high, of handsome architecture, and is planned with a memorial hall for the pioneers of this section and ample space for exhibiting a large collection of historical, scientific and art exhibits affecting the people of this great Western part of the State of Texas. The building is regularly open for visitors.

Gymnasium, located near the north end of the campus, is a temporary frame structure with tile and stucco walls. 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. Built in 1926.

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

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

The Library, an L-shaped three-story building situated northwest of the Administration building, completed in 1938 at a cost of $275,000. Its south front faces the Chemistry building, to which its exterior architecture approximately conforms. Its east-west dimensions are 60 by 232 feet; a wing runs from the east front 40 feet north and 110 feet west. When it is fully equipped it will seat about 1000 students; its storage capacity is approximately 200,000 volumes.

Farm Buildings. Among the facilities used by the Division of Agriculture are the Greenhouse, 25 by 75 feet, with an independent heating plant, used for laboratory work in horticulture and propagation; and the Dairy Barns, erected in 1925 with stanchions for forty cows, dressing rooms, feed rooms, and the milk house and dairy manufactures plant equipped with refrigeration. On the farm are also frame structures for housing livestock, and residences for the chief herdsmen who have charge of the livestock.

Meats Laboratory, located west of the Livestock Judging Pavilion a 20x60 foot semi-permanent structure containing facilities for killing, dressing, and cutting meat and equipped for the work in the Department of Animal Husbandry having to do with farm meats. This building contains refrigeration equipment.

Farm Shop, located west of the campus, is a 100x40 foot frame building provided with storage space for a limited amount of farm machinery used for class instruction. The building is provided with an office, and with tools and equipment for work in agricultural engineering and farm shop.

Military Building, located north of the Engineering building and southwest of the Textile building. It is a one-story frame building, 20 x 160 feet, with a gallery rifle range, 12 x 100 feet, beneath. This building was constructed in the summer of 1936 for the housing of the Senior R .O T. C: Unit allocated at this institution and initiated with the fall semester of 1936. The building is provided with a classroom, offices for military personnel, and rooms for storage of military arms, clothing and equipment.

Bookstore, located 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.

Residence Halls. A residence hall for women and two residence halls for men occupy attractive locations near the main entrance drive of the campus. Each of these buildings is three stories in height, constructed of brick and stone, fire-proof and of attractive design. 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 room, kitchen and service rooms. Each hall has an attractive and excellently furnished lounge which serves as the social center of the student life of the dormitory. The student rooms are well furnished, each student having closet space for adequate clothing. Within each room is a lavatory with hot and cold water. The polished floor of each room is covered with a nine by twelve rug. A double study table with individual study lamps, chairs, and a dresser or chest of drawers complete the room furniture. Board and room is furnished to students in these residence halls at very modest prices. Each of these buildings will house 320 students. The college and its friends are proud of these beautiful new buildings constructed under loan and grant from the Public Works Administration.

Casa Linda, a stucco residence, two stories high, completely furnished except for the bedding and linens which the students are expected to furnish. This house cares for seventeen students under the direction of a member of the faculty. The work is done by the students themselves. This Cooperative House furnishes a fine opportunity for cooperative living in a dignified and pleasant environment.

El Meson', a wooden dormitory and living quarters, constructed originally for a non-collegiate resident training project, 120 x 20 feet with two wings 50 x 20 feet. It contains residence accomodations for 50 men, including the resident supervisor, recreation room, 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 best illustrate 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 Administration 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 Animal Husbandry
Department of Dairy Manufactures
Department of Plant Industry (covering field crops, soils, horticulture, agricultural engineering and machinery, and genetics)
Department of Agricultural Education

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 Petroleum Engineering
Department of Industrial Engineering and Engineering Drawing
Department of Mechanical 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 Clothing and Textiles
Department of Foods and Nutrition
Department of Institutional Management
Department of Home Management
Department of Home Economics Education
Department of Child Development and Family Relations

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, and Spanish)
Department of Geology
Department of Government
Department of History and Anthropology
Department of Journalism
Department of Mathematics
Department of Music
Department of Physics
Department of Physical Education
Department of Sociology and Philosophy
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
General Extension

The Division of Plant Operation:
Heat, Light, Water, and Power
Repairs
Janitor Service
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 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 constructed so as to be readily convertible into rooms suitable for library use when necessary. There will be five stack levels when the equipment is complete. There is seating capacity for approximately 1,000, when the reading rooms and seminar rooms are completely furnished for library use.

The Library contains 66,517 catalogued 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 Illustrada Europea-Americana* and the *Europa* service are outstanding in their general usefulness; special encyclopedias, notable among which are the *Encyclopedia of the Social Sciences,* 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 Colleges; 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 comprises 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, Tex. 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 loaned 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.*

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 five hundred and forty-seven general and special magazines and eighteen newspapers, some acquired by gift, some by purchase. *The Readers' 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,* almost complete, 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, form an especially important part of the periodical equipment.

The Library is a designated depository for all Federal documents. It is also a designated depository of the Carnegie Endowment of 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.

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 recently completed 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, because of the distance of the College from town.

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 every one is maintained.

ATHLETICS

As 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. The student during the first two years of this course 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, deportment, constitutional law, and personal neatness are essential parts 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 Authority the College offers work in vocational flight training. Ground school work is given as an extension course by the Department of Mechanical Engineering. 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 Director of the program.

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 3,400 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.

Payment of annual dues of $2.00 entitles members to a year's subscription to the magazine, $1.10 discount on an athletic ticket which is not only good for varsity football but also for freshman football games, basketball, 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.

COEDUCATIONAL

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 a 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, and will offer those published at the beginning of each year and each semester for which there may be 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.

Texas Technological College aims to assist the Faculty and the students in enabling them to do original research work and to afford the facilities of the College for the purpose of developing and maintaining all those agencies for the development of the physical, mental, and moral welfare of the students and of developing the material resources of the State to their highest point of usefulness.

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 Sept. 11 to 17 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**
   a. The new student should have furnished to the Registrar of the College a transcript of all of the applicant's credentials, see page 39.
   b. Taking the required medical examination, see page 66.
2. **Establishing Local Residence, see pages 52-55.**
3. **Furnishing Record of Employment, see pages 47, 52.**
4. **Securing Permit to Register**
5. **Paying Tuition and Fees, September 11 or later, see pages 42, 46.**
6. **Registering for Courses, September 16 and 17.**
   Registration is a matter of record and requires that the cards receive the signed approval of the Dean of the Division; the cards are then filed with the Registrar with the date indicated on the card.
7. **Completion of Registration**
   A student has completed registration and is regularly enrolled when he has completed the foregoing processes.

Advisers have been appointed from the faculty mainly consisting of the Deans and the Heads of the Departments for the purpose of counselling the students. The student should make use of these services from the start.

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 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 15 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 are required by groups 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 or 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

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
Group A, English	
English	3-4
Group B, Mathematics	
Algebra	1-2
Plane Geometry	1
Solid Geometry	½
Trigonometry	½
General Mathematics	1
Group C, Laboratory Sciences	
Applied Science	1
Biology	1
Botany	1
Chemistry	1
General Science	1
Physics	1
Physiography	½
Physiology	½-1
Zoology	1
Group D, Social Sciences	
Early European History	1
Modern History	1
English History	½-1
American History	½-1
World History	1
Texas History	½
Civics	½-1
Group D, Social Sciences (Cont'd)	
Contemporary Social and Economic Problems	½
Economics	½
Sociology	½
Group E, Foreign Languages**	
French	2-4
German	2-4
Latin	2-4
Spanish	2-4
Czech	2-4
Group F, Vocational and Miscellaneous	
Agriculture	½-4
Advanced or Commercial Arithmetic	½
Art	1-4
Bookkeeping	1-1½
Commercial Geography	½
Commercial Law	½
Drawing	1-4
Home Economics	½-4
Journalism	1
Music	1-4
Pubilc Speaking	½-1
Shop Work	½-4
Stenography	1-2
Typewriting	½-1

*Students in the Division of Engineering who present 15 accredited units which do not include the prescribed unit in Physics may present 1 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.
**One unit in a foreign language may be offered as an elective unit.

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 be taken at the regular designated periods.

At the opening of the fall semester, spring semester, and the summer session, the College gives entrance examinations for those who need credits for admission and who make application for examination to the Registrar. Entrance examinations will be given on September 12 and 13, 1940, at the beginning of the first semester and on January 29 and 30, 1941, at the beginning of the second semester. 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.

Notebooks are required for the following subjects: Biology, Botany, Zoology, Physiology, Chemistry, Physics, General Science, and Physiography.

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 sent to the Entrance Examinations Committee, which will determine the candidate's 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 gradepoint average of "C" in the first 30 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 assignment to any beyond 30 hours.

Admission with Conditions. To regularly enroll 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 science, 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 science 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 work done in college to be transferred 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 and also showing a high ranking in the scholastic aptitude test given by the College to all entering freshmen, may enter without admission conditions. (This does not exempt any student from the required three units in English nor the usual mathematics or science 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 he 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 stu-

dent 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 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 withdawn if the work in Tech is of a low grade. Students whose grade record in another institution is consistently low or shows a considerable number of hours failure may be refused admission or may be admitted on scholarship probation. Students 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 6 hours in the major subject, which minimum may be increased to 10 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 requirements for any given curriculum offered in this catalogue. These consultations should be held before the date set for regular registration.

The Committee on Advanced Standing in each Division consists of the Dean of the Division, the Registrar of the College, and the Head of the Department or Departments in which the major work is to be taken.

LATE ADMISSION

New students are cautioned to read the College Calendar in the front of this catalogue and present themselves for admission on September 16 or 17 as provided therein. No new student will be accepted for admission after September 24 in the first semester. Late registration results in a reduction in the amount of work carried and 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 for 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, 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

*Regular Session Forty-Third Legislature.

**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.

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, grad., $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 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:

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.

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 on page 66.

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; $0.40 to the Student Council; $1.00 as subscription to the Toreador, a semi-weekly publication; $1.20 to the Matador Band; $0.21 to Senior Livestock Judging Teams; $0.20 to Dramatic Teams; $0.20 to Intercollegiate Debate Teams; $0.165 to Association of Women Students, $0.225 to the Engineering Show; $0.15 to Home Economics Club; $0.10 to Plant Industry Judging Team; $0.10 to Senior Dairy Products Judging Team; $0.02 to Meats Judging Team; and $0.03 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 is 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 "Visitors in a Course," page 60.

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 as 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 65). 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 class work 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 the 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: Returning to the Dean of the Division in which the student had planned to register the "Application for Registration Card", securing the Dean's endorsement of a notification to the Business Office that the applicant has surrendered the Registration Card and therefore cannot register, accompanied by the returning to the Business Office of the receipt of fees paid. 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 case 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 the expense of 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. There is no tuition 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 houses. The cost will vary with quality of accommodations and 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 page 52-56.

Lists of approved rooms in private homes may be obtained at 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	115.00	110.00
Books and incidentals (estimated)	25.00	25.00
Laundry and pressing (estimated)	15.00	15.00
Totals	$203.50	$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.

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

*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 balance 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, and who desire to participate in the student activity benefits during the second semester pay $3 activity fee.

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 with good health and character and a pleasing personality, combined with industry and reliability, to find 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.

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, 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 or 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 available only to certain groups of students. In the 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.

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 available to junior and senior students. Preference is given to majors in history. Amount of the fund at present, $50. Applications should be made to Mrs. William Dingus, Department of Foreign Languages, Room 223, Administration Building, or Mrs. R. E. McDonald, 2517 19th Street, Lubbock, Texas.

Twentieth Century Club Loan Fund. This fund is now $500. The interest rate is four per cent, and loans are made to either men or women, with preference given to upper classmen. Application sholdd be made to Mrs. W. O. Stevens, 1408 Avenue O, Lubbock, Texas.

The Lubbock Business and Professional Women's Club Loan Fund. This fund amounts to $250. It is available to any unmarried girl at ten per cent interest. The fund was started the year the college opened and is loaned on the basis of scholarship and character, and upon recommendation of Dean Mary W. Doak. Application should be made to Mrs. Ethel (W. A.) Wellmaker, Happy Hour Studios, 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 established by contributions of Members of the Rotary Club of Lubbock. The principal of their fund now amounts to approximately $7,000. Loans may be made in small amounts to upperclassmen who have attended the College a year or more and demonstrated their worthiness and ability. Application should be made to Dean J. M. Gordon.

The City Federation Loan Fund. This loan fund, established by the city Federation of Women's Clubs of Lubbock, bears an 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 holds a sale about Thanksgiving time each year. Money is loaned 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 small 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 their 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, Texas Technological College, Lubbock, Texas.

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. Every means is taken to promote high scholarship the ideal of Texas Technological College. 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 affiliated high schools. Such a scholarship entitles the student to tuition amounting to the sum of $50 free for one year, and is only available to a student the year following graduation from high school.

By agreement between the State-supported institutions of higher learning, one scholarship each year will be granted to the highest ranking graduate of the year preceding of each affiliated high school in the State. Only one such scholarship is granted to each student, who may choose the State-supported institution of higher learning 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 he high school term in the spring. The State Department of Education prepares the list of honor graduates for the regularly affiliated high schools each year and furnishes this list to each of the State-supported institutions of higher learning.

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 alloted 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, and in the amount of $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 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 1940-41 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 1939-40, 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 college long session being renewed for the second semester provided the holder of the scholarship maintains a satisfactory record. The scholarships are for the 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.

Graduate Assistantships and 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 several years, was continued for the year 1939-40. Applications for appointments for future years should be addressed to the Head of the Department of Animal Husbandry.

Cotton Research Foundation Fellowship (a graduate research fellowship) of $250 granted by the Cotton Research Foundation of Memphis, Tenn., and administered by the Mellon Institute of Industrial Research, for the study of cotton and its by-products. Applications should be addressed to the Head of the Department of Chemistry.

PRIZES AND AWARDS

The following awards are offered annually:

Standefer-Canon Award: To the student among the football letter men making the highest grades for the year, whose name is to be inscribed on the silver football plaque in the athletic office.

Tennis Award: An annual award given by W. B. Rushing and Newton Walton, to the student on the campus who contributes most to tennis, both in quality of individual playing and fine sportsmanship and spirit in relation to sport.

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, architectural engineering, 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 will award, at the June 1940 Commencement, a two-year, paid up membership in the American Society of Geologists, to the outstanding senior student (graduating in June) in the Department of Geology.

American Society of Engineers Award: A book, presented to the most valuable member of the local branch of the American Society of 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 markmanship.

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 on such work, without having received any failing, conditional, or incomplete grades.

Women's Recognition Service. A Recognition Day honoring women students who have done outstanding academic work and 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 representtives 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.

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.

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, approval of their registration, and other matters pertaining to the students' graduation requirements. They have general responsilbility 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 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 or 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-support report such employment to her as a member of the Student Employment Committee, they may secure 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 to consult with students concerning matters of personal health and moral welfare, social affairs, work for self-support, or more personal problems. She also has general supervision of the conduct of women students on the campus and in the college dormitories.

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 places of residence during a semester without his approval. Men students who work for self-support report such employment to him as a members of the Student Employment Committee, they may secure guidance and help in obtaining employment, and must supplement their employment report as changes occur. He is available to consult with students concerning matters of personal health and moral welfare, social affairs, work for self-support, or more personal problems, and as an adviser for general organizations among the men. He also has general supervision of the conduct of men 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 conduct of the members in all of their relations with the organization. The sponsor of a student organization within a 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 three residence halls for students, two for men and one for women. Each of these halls is fireproof 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 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 respecting the living of students in the College residence halls:

All men students who do not live in Lubbock are required to live in the men's residence halls, to the full capacity of these halls.

All young women students who do not live in Lubbock are required to live in the women's residence hall, to the full capacity of this hall.

The College considers it a distinct advantage to the students to live in the dormitories on the College campus. It is not intended that these residence halls should be exclusively occupied by freshmen. They will be used by the administrative authorities in charge of them to improve the social and educational life of those who occupy these buildings.

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.

The charge per person for room and board in the College Residence Halls for the long session of two semesters will be $225 for a regular room; $234 for a corner double room; and $288 for a single room with private bath. Payment of this charge may be as follows:

$10.50 (regular double room) $10.50 plus $5 deposit, or total of $15.50 on entrance.
$27.50 (regular double room) on or before October 10.
$27.50 (regular double room) on or before November 10.
*$17.00 (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 paid when due.

Students who move out of the dormitories during a month for which 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 charges will not be made without due notice to all students and only at the end of a semester or year. 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.

*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.

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 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 stucco residence, two stories high, 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 may be 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 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 to the dean of the division in which the student is registered.

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

7. Proprietors are required to report immediately any change of residence made by 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 with-holding 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.

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 discipline.

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 garages 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 women students not residing in Lubbock, shall, to the full capacity of the dormitory, room and board in the Women's Residence Hall. In event that the Women's Residence Hall 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 given by 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 dates and 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 and 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; 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 College Administrative Council which has final jurisdiction in all matters of personal conduct, discipline, and scholarship.

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 of 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 indefinite suspension. A student suspended from the College must remain off the College campus during the period of his suspension excepting 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 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 class.

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.

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 athletic teams, 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 "Physicians 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 approved by the dean of the division in which the student is enrolled.

4. a. Students for whom absence approval cards are filed in accordance with the regulations stated above under (a), (b), and (c) of paragraph 3, may have the privilege of making up the lost 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.

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, or four weeks after registration in the other semesters, 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 or four weeks after date of regular registration in the spring semester, unless the dean originates the request.

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 in general but one kind of student—the regular student. Students are classified as freshmen, sophomores, juniors, seniors, and graduate students.

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 30 semester hours.

Sophomore. A regularly enrolled student who has completed a minimum of 30 semester hours including 2 hours of required physical education or military science.

Junior. A regularly enrolled student who has completed not less than 60 semester hours including 4 hours of required physical education or military science, and 60 grade points.

Senior. A regularly enrolled student who has completed not less than 90 semester hours including 4 hours of required physical education or military science, and 90 grade points.

SEMESTER HOUR

The unit 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 and the preparation for it.

NUMBER OF SEMESTER HOURS ALLOWED

In the case of a student with low scholastic standing, the normal student load may be reduced. The limit will 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 their employment as may be required by the Deans. This report must be supplemented as changes occur. Intentional misstatements may lead to deprivation of priviliges.

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.

VISITORS IN A COURSE

Permission to visit a course or courses is sometimes granted. Such permission conveys only the privilege of hearing and observing, 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.

Any person desiring to visit a course should, with the approval of the dean, apply to the Registrar for a visitor's permit and pay the fee (page 44). to the Business Office, except that graduate students, when recommended to do so by the Dean of the Graduate Division, may visit a course without paying this fee.

Any person employed by the College must obtain the permission of the heads of the departments concerned and of his dean before he may be issued a visitor's permit by the Registrar. Full-time faculty members who desire to

visit classes with the approval of the head of the department and the dean concerned shall be exempt from the payment of fees for visiting such courses. A visitor's permit to attend any class may be denied to any person in case the class is already over-crowded.

A student having the grade of "Inc" in a subject may, with the approval of his dean and the head of the department in which the course is offered, visit the course without charge is recommended to do so by the professor under whom the grade of "Inc" was made.

COURSE NUMBERS

The numbers used for designating the courses are uniform. Reading from left to right, the first digit indicates the college year in which the course is normally offered; the second digit shows the semester hour value of the course; while the other digit or digits represent the course number; a course complete in one semester is described under one 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 subject 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.

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 subject, 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 his time limits. 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, or four weeks after the beginning of the second semester, 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 incomplete. The dean and the instructor in joint conference shall decide whether the work may be completed or the grade become "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 privileges 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, a brief summary of the work to be done, and the time allowed for doing the work. The instructor shall transmit the new grade to the Registrar, and the Registrar 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 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 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, prerequisités, 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 was 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 not only considers the number of credit hours taken by students but the grades received in different subjects and gives to each of them grade points. 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 does not entitle the student to any grade points and will reduce the grade point average as such work must be repeated. 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 old in process of removal as F, and including repeatedly each reregistration in the same course with a grade of F in the total. This grade point average then is interpreted in terms of the corresponding grade.

In order to graduate from Texas Technological College, the student must have the number of grade points, as specified above, that he has credit hours.

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.

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 the 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 12 or more semester credit hours, is eligible to become a candidate for student office, or may represent the College in any extra-curricular activity other than intercollegiate athletics provided such student has a grade average of at least "C". 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 gradepoints is then divided by the total of all the hours in which the student has received grades of A, B, C, D, F, and including E, less than one year old in process of removal as F, and including repeatedly each reregistration in the same course with a grade of F in the total. This gradepoint average then is interpreted in terms of the corresponding grade.

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, and the responsibility for securing this certification shall rest with the student concerned and the supervisor of the activity in question.

Eligibility of athletes participating in intercollegiate athletics is covered by the rules established by the Border Inter-collegiate Conference, and participation in intercollegiate athletics is subject strictly to the Border Conference rules.

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.

5. The student 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 an-

other 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 who presents notably low grades from another institution will be received in Texas Technological College only on scholarship probation and this 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 15 hours must pass two-thirds of the work.

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 nine hours under the scholarship probation regulations, he will not be 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 complete 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's program seems to warrant it. In both cases permission from the dean must be secured. The student 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 satisfactorily complete a minimum of 6 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 the 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 7 years of the date of the catalogue chosen. This does not mean that if a student fails to complete the requirements within 7 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

The West Texas Hospital, 1302 Main Street, Lubbock, in return for the medical service fee, agrees to render the following services to any student enrolled 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 Hospital. 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 but such services if employed must be cared for by the student.

5. The hospital agrees to furnish hospitalization to students who while in College contract contagious diseases, for example, mumps, measles, flu, to the capacity of the hospital facilities. In case of an epidemic of contagious diseases, where the hospital facilities are taxed beyond their capacity, arrangements will be made, mutually agreeable to the College and the hospital.

6. If an ambulance is required to carry the student to the hospital this 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 operations 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 by the College on the campus. 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 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 Col-

lege 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 the handling of such cases.

All the above conditions and agreements will obtain covering the summer school, 1940, 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 administration 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, Sousa and his Band, Ted Shaw, Amelia Earhart, 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, and James Melton have appeared under the sponsorship of this committee.

PUBLIC SPEAKING AND DEBATE

The ability to speak effectively is an extremely valuable asset, and 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 ability, 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. Intercollegiate debates have been arranged with many of the leading universities and colleges of the United States and abroad.

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 objects 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 may continue on the campus which fails to maintain these standards. All clubs and societies are required to have faculty sponsors, and 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, Las Leales have the interest of the women students as their object. Alpha Phi Omega, is a Campus Service Club composed of men students, Beta Sigma Chapter was installed in 1938.

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 Students.

DEPARTMENTAL, HONOR, AND SCIENTIFIC CLUBS

These clubs include:

I. National Honorary Professional Fraternities.

Alpha Chi—Open to students from all Divisions of the college
Alpha Chi chapter was installed 1926

Alpha Epsilon Delta—Pre-Medical
Texas Gamma, installed 1938

Alpha Psi Omega—Inter-collegiate Dramatics
Tau Cast installed 1926

Phi Psi—Textile Engineering
Kappa Chapter installed 1931

Pi Sigma Alpha—Government
Alpha Eta Chapter installed 1939

Phi Upsilon Omicron—Home Economics
Omega Chapter installed 1937

Kappa Kappa Psi—Band
Alpha Omicron Chapter installed 1938

Sigma Gamma Epsilon—Geology
Alpha Beta Chapter installed 1931

Tau Beta Pi—Engineering
Texas Beta Chapter installed 1937

II. Local Honorary Professional Organizations.

Women's Press Club, organized 1938

Freshman Women Honor Society, organized 1938

III. Divisional and Departmental Clubs.

The Agricultural Club, Student branches of the American Institute of Electrical Engineers, the American Society of Civil Engineers, the American Society of Mechanical Engineers, the American Institute of Chemical Engineers, American Chemical Club, Biology Club, Block and Bridle Club, Book Reviewers, Business Administration Club, Cabbage Heads, Capa y Espada, Dairy Club, Debate Club, Double T Association, Engineering Society, Future Farmers of America, Gargoyle Club, Home Economics Club, International Relations Club, Philosophical Society, Society of Petroleum Engineers, Physics Club, Plant Industry Club, Pre-Law Club, Pre-Med Club, Sock and Buskin Club, S.P.Q.R. (Latin Club), Texas Tech Business Club, Torch and Castle, Women's Athletic Association. These clubs serve the purpose of bringing together those whose interests are in common. Their work is primarily professional and educational.

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 description 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. Reading 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 completes the course number. A course which extends over two semesters carries a hyphenated number, e. g., English 131-2.

The credit hour value of the course is again shown after the name of the course. For courses not taught as straight theory, the number of hours per week devoted to lecture and laboratory, respectively, is shown in parenthesis after the credit hour value. Two different courses may 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 3 semester 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 if used for graduation credit both courses must be passed.

Freshman Composition is the Descriptive Title of the course.

Cr. 3, signifies a 3 hour credit shown in this manner to indicate that this is not a laboratory course.

Each I and II; the semester in which a course is taught is indicated by the Roman numerals "I" and "II". If a course runs throughout the session, "I and II" is used. A one-semester course offered each semester is shown as "I, II". A one-year course, the first and second halves, respectively, of which are available each semester, is shown as "Each, I and II". The letter "S" indicates that the course normally is offered only in the summer session.

A course taught with a laboratory differs from the above descriptions as follows:

A. H. 121. Types and Market Classes of Cattle and Sheep. Cr. 2. (1-3). I. An Animal Husbandry Department course in the freshman year with the descriptive title noted, 2 credit hours value, taught one hour a week theory in the long session and one 3 hour laboratory a week. Taught normally only in the first semester.

The prerequisite to a course for which credit must have been received before assignment to the course, is included in the course description. If another course must be taken at the same time, it is indicated, "Registration in . . . .".

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 Greenhouse, all of which are of permanent construction and are so planned that they may be added to as the occasion demands. There is a building, used for offices and classrooms, and 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 in and out of doors. Approximately 700 acres of pasture land and 964 acres of cultivated lands 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.**

Teachers 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 as to 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 the work of the junior year. 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.

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 re-

ceive 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 satisfactorily complete a minimum of two semester hours in courses in government, and 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 balance 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 Agricultural 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

**One half of the students scheduled for these subjects Sem. 1 and the other half Sem. II
*One half of the students scheduled for these subjects Sem. I and the other half Sem. II.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE

AGRICULTURAL ECONOMICS MAJOR

For Uniform Freshman and Sophomore Years see page 75

Junior Year

	Semester Hours Sem. I	Sem. II
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
	17	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
	16	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 75

Junior Year

	Semester Hours Sem. I	Sem. II
Ag. Eco. 331. Statistical Problems	3	....
Ag. Eco. 325. Farm Records and Accounts	....	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 75

Junior Year

	Semester Hours Sem. I	Sem. II
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. Dr. 223. Agricultural Drawing	.....	2
T. E. 234. Cotton Classing and Marketing	3	.....
Govt. 339-3310. American Government: Institutions, Functions	3	3
	18	17

Senior Year

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 Horticultural 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	9	4
	16	16

Number of hours required for graduation 140.

Electives

Electives may be chosen from the following groups. At least 6 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 75

	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, Functions	3	3
Electives		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 6 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 75

	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
Department 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 75

Junior Year

D. M. 323. Market Grades and Classifications of Dairy Products	2	.....
D. M. 321. Technical Control of Dairy Products	2	.....
D. M. 322. Dairy Plant Equipment	.....	2
Ag. Engr. 413. Dairy Machinery Laboratory	.....	1
D. M. 331-2. Market Milk and Inspection	3	3
D. M. 335. Dairy Bacteriology	.....	3
A. H. 331. Animal Nutrition and Principles of Feeding	.....	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
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 75

Junior Year

	Semester Hours Sem. I	Sem. II
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 6 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 in this department is to provide instruction leading to the solution of the basic economic problems of technologically trained students and in 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 improve 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 earlier catalogues, if they elect to complete their work in that manner.

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 the professional life of the technologically trained student of agriculture, engineering, and home economics. For students in the technological departments who wish a brief working concept of economic theory, to be followed by its application to their 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 adaption 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, 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 and 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.

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. Research 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. Research in problems and practices in marketing of agricultural products, or of some selected farm product. Offered on demand.

534-5. Thesis. Cr. 6. 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 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 who wish to teach vocational agricu'ture, substantially the same qualifications will be required. The satisfactory completion of the requirements will be followed by recommendations for permission to teach vocational agriculture in high schools and 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 student 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 Agricultural 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.

411. Agricultural Lectures. Cr. 1. I. Prerequisite: Senior standing in the Division of Agriculture. Reviews and recapitulations. The relationship of farmers and their co-workers with each other and with agricultural and other communities. Lectures on professional ethics and attitudes. Papers and references. Formerly G. A. 411.

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.

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. Research in Vocational Agriculture. Cr. 3. I. 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. I and II. 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 3 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 forty 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 and sheep. 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 the 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. 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 Production. Cr. 2. I. 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 Production. Cr. 2. II. 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. II. 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 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. **Research in Animal Husbandry.** Cr. 3. I. Prerequisite: Graduate standing and the consent of the head of the department. Research in the field of animal production and nutrition.

532. **Research in Animal Husbandry.** Cr. 3. II. Prerequisite: Graduate standing and the consent of the head of the department. Research in the field of animal production and nutrition.

533. **Thesis.** Cr. 3. I. Prerequisite: Graduate standing and consent of the head of the department. Special investigation in some phase of livestock production which may form the basis of a Master's thesis.

534. **Thesis.** Cr. 3. II. Prerequisite: Graduate standing and consent of the head of the department. Special investigation 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.

221. **Principles of Poultry Production.** Cr. 2. (1-3). II. Culling, incubation, brooding, feeding, housing, management, sanitation, judging, and marketing of farm poultry flocks. For Home Economics students who plan to become home demonstration agents.

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 animals 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. The common infections 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.

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, and 534.

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 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.

322. Dairy Plant Equipment. Cr. 2. II. Prerequisite: Registration in Ag. Engr. 413. Equipment used in the dairy. Emphasis on steam boilers, refrigeration, motors, exhaust steam, insulation, steam and water fittings, plumbing, sewage disposal.

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.

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.

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, Chemistry 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, Chemistry 341 or their 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. I. 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: 323, 331-2, 333, 335, 411, 412, 420, 421, 422, 431, 433, 435, 436, 437-8, 441 if an additional problem is carried in each course, and 512, 531-2, and 433-4.

DEPARTMENT OF PLANT INDUSTRY

PROFESSORS YOUNG, LEIDIGH, HOWELL. ASSOCIATE PROFESSOR YOCUM. ASSISTANT PROFESSORS CLAY, DUKE. INSTRUCTOR MADER.

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 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 build-

ings, 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. 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 students having satisfactory scholastic record. An investigation of a problem in the field of special interest to the individual student concerned. Research.

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. Plant Industry Research. Cr. 3. I, II, or S. Prerequisite: Graduate standing and consent of the major professor and head of the department. Research in the fields embraced in Plant Industry. Outlining problem, reviewing literature and securing data.

532. Plant Industry Research. Cr. 3. I, II, or S. Prerequisite: P. I. 531 and consent of major professor and head of the department. Advanced research in the fields embraced in Plant Industry, reviewing literature and continuation of experimentation in chosen field.

533. Plant Industry Thesis. Cr. 3. I, II, or S. Prerequisite: Graduate standing and consent of major professor and head of the department. Securing, analyzing, 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.

HORTICULTURE

131. Plant Propagation. Cr. 3. (2-3). I and II. Plant propagation, greenhouse 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. Given in alternate years; given in 1940-41.

332. Annuals and Perennials. Cr. 3. II. Prerequisite: Junior standing, Identification, characteristics, culture, and uses of annuals, perennials, bulbous crops and outdoor roses. Given in alternate years; not given in 1940-41.

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. Given in alternate years;. not given in 1940-41.

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. Given in alternate years; given in 1940-41.

336-7. Landscape Design. Cr. 3 (1-6). I and II. Prerequisite: Engr. Drawing 223, Arch. 121-2, 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, adaption, soil requirements, temperature, orchard heating, and irrigation. Given in alternate years; not given in 1940-41.

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. Given in alternate years; given in 1940-41.

433. Systematic Pomology. Cr. 3 (2-3). I. Prerequisite: Hort. 333 or registration in Hort. 431. Nomenclature, variety description, classification, climatic and regional adaption. Practice in describing and identifying varieties of fruits. Given in alternate years; given in 1940-41.

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.

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, adaption 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. Adaption, 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). 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: 18 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 (2-3). 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. I. (2-3). Prerequisite: Senior standing and 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 (2-3). 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.

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 gulley 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.

413. Dairy Machinery Laboratory. Cr. 1 (0-3). II. Prerequisite: Registration in D. M. 322. A study of the care and operation of dairy plant equipment.

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. I. 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, 532, 533, 535, Agron. 511, 512, 513.

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 obtain 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; Petroleum Engineering; Industrial Engineering; Mechanical 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 about 60x220 feet, and 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; Electrical; 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.

He should take three and preferably four years of English, two years of Algebra, one year of Plane Geometry and one year of Physics.

The physics requirement is in effect in the fall semester of 1940-41 for the first time.

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.

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, Petroleum, and Mechanical Engineering, and the three Textile options.

	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 99

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. Appiled 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 the 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 99

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; Econ. 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 99

Sophomore Year

	Semester Hours Sem. I	Sem. II
Phys. 233. Technical Writing	.....	3
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	.....
E. E. 230. Principles of Electrical Engineering	.....	3
M. E. 311. Pattern Shop	1	.....
M. E. 312. Foundry	1	.....
M. E. 221. Engineering Problems	2	.....
C. E. 231. Plane Surveying	3	.....
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
	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	.....
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
M. E. 313-4. Machine Shop	1	1
M. E. 333. Kinematics of Machinery	.....	3
Eco. 235. Principles of Economics	3	.....
Speech 337. Project Speaking	.....	3
Math. 321. Differential Equations	2	.....
	18	19

Senior Year

E. E. 431. Advanced Circuit Theory	3	.....
E. E. 432. Alternating Current Machinery	.....	3
E. E. 421-2. Electrical Engineering Laboratory	2	2
E. E. 423. Transformer Theory	2	.....
E. E. 433. Transmission	3	.....
E. E. 434. Communication	.....	3
E. E. 410. Current Electrical Engineering	1	.....
E. E. 436. Electron Tubes	.....	3
C. E. 439. Law and Ethics in Engineering	.....	3
I. E. 332. Management—Production Planning and Control	3	.....
C. E. 310. Testing Laboratory	.....	1
C. E. 420. Hydraulics	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

	Semester Hours Sem. I	Sem. II
For Freshman Year See Page 99		
Sophomore Year		
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 Engineering	.....	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. 433. Cost Accounting	3	.....
B. A. 334-5. Business Law	3	3
M. E. 334. Elementary Thermodynamics	3	.....
M. E. 335. Heat Engines	.....	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
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 99

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
	19	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
	19	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
	17	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, 421, M. E. 423-4, 432, 433, 439, Engineering Seminar 411-2.
Group B. Speech 337, B. A. 244-5, 334-5, Eco. 432.
Not more than 9 semester hours may be selected from Group B.
Advanced Military Science may be substituted for 6 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 99

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
	19	18

Summer

Geol. 363. Field Geology	6	.....

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
	15	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
	14	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 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 99

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	.....

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

*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—Raido 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 99

	Semester Hours Sem. I	Sem. II
Sophomore Year Same as Sophomore Year of Geology Option (Except that Engr. Dwg. 222 is taken in the first semester and Geol. 231 in the second semester.)		
Summer		
Geol. 363. Field Geology	6	.....
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
Pet. E. 331-2. Petroleum Production Methods	3	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. Surveying	3	3
C. E. 310. Materials Laboratory	.....	1
Speech 337. Project Speaking	3	.....
	19	17
Senior Year		
**Pet. E. 431. Oil Field Testing Methods	3	.....
**Pet. E. 432. Oil Field Engineering	.....	3
**Pet. E. 433. Oil Field Equipment	3	.....
**Pet. E. 434. Gas Production Engineering	.....	3
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.

**To be offered first in 1940-41.

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

	Semester Hours Sem. I	Sem. II

For Freshman Year See Page 99

Sophomore Year

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	.....
M. E. 313. Machine Shop	.....	1
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
	20	19

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
	20	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. 316. Welding Practice	.....	1
Eng. 233. Technical Writing	3	.....
	17	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.

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

	Semester Hours Sem. I	Sem. II

For Freshman Year See Page 99

Sopohmore Year

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

*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 English 233 and Eco. 232 in accordance with catalogue regulations.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE IN TEXTILE ENGINEERING

Weaving and Design Option

	Semester Hours Sem. I	Sem. II
For Freshman Year See Page 99		
Sophomore Year		
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.

CCURRICULUM 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
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	.....
M. S. 211-2, Military Science; P. E. 213-4, Physical Education; or Music 211-2, Band	1	1
	16	16
Construction Option		
Math. 251. Calculus	5	.....
Math. 233. Calculus Applications	.....	3
Physics 235-6. Engineering Physics	3	3
Physics 215-6. Physical Measurements	1	1
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
	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		
A foreign language (Continued)	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

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 stubstituted for French 232 or English 232 in design option and for six semester hours of approved electives in construction option, in accordance with catalogue regulations.

Only freshmen will be accepted in the Construction Option of this curriculum during 1940-41.

CURRICULUM FOR THE DEGREE OF BACHELOR OF COMMERCIAL ART

	Semester Hours	
Freshman Year	Sem. I	Sem. II
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
	16	17
Sophomore Year		
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 Mediaeval Architecture	3	....
Arch. 234. History of Renaissance Architecture	....	3
Arch. 141-2. Elements of Architecture	4	4
Physical Education	1	1
	16	16
Junior Year		
A foreign language (continued)	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
	16	16
Senior Year		
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
	17	17
Fifth Year		
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. 4212-13. Commercial Illustration, II	2	2
Arch. 433-4. Commercial Design, II	3	3
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. The course is an introduction to the practice of architecture, yet it is detailed enough to prepare one to enter the profession as a draughtsman. 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 this 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, whose function 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. 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. Cr. 2 (0-6). S. 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 class room 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 organiza.tion, 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. 233-4. 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. Cr. 3 (1-6) I and II. Prerequisite: Arch. 2216. 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. Engineering Seminar. 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, 420, 423-4, 426-7, 433-4, 439, and 4310 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 executives, 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 descriptions of the required courses are given under the *Department of Chemistry and Chemical Engineering.*

DEPARTMENT OF CIVIL ENGINEERING

PROFESSORS MURDOUGH, ADAMS. ASSOCIATE PROFESSORS McREE, *PARKHILL. ASSISTANT PROFESSOR MIDDLETON. INSTRUCTORS DECKER, **HARDING.

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.

* On leave, Long Session, 1939-40.
**Temporary appointment, Long Session, 1939-40.

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 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.

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.

330. Structures. Cr. 3. II. Prerequisite: C. E. 320. Moment and shear curves; influence lines, stresses in framed structures; moving load system; 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 or C. E. 220. 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. (Includes that which was formerly C. E. 321.)

410. Hydraulics Laboratory. Cr. 1 (0-3). 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.

422. Highway Administration and Finance. Cr. 2. I. Prerequisite: C. E. 321. History and development of systems of highway administration; principles of highway finance. (Not offered after 1939-40.)

423. Economics of Highway Design. Cr. 2 (0-6). II. Prerequisite: C. E. 321. 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 from 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 (2 2-3—1-3). 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. (2 2-3—1-3). 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. 331, 332, 333, 410, 420, 421, 422, 423, 424-5, 426, 431-2, 433, 434, 435, 436 if properly petitioned for in advance and provided an additional special problem is done in each course.

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 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, 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 basis 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. Given in alternate years; not given in 1939-40.

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.

424. Principles of Engineering Electronics. Cr. 2. (0-6). II. Formerly E. E. 424, Electrical Applications. Prerequisite: E. E. 332. A study of electronic conduction, its capabilities and limitations. Different types of electron tubes and their special fields of use. Tube circuits as applied in practice are set up and studied in the laboratory under operating conditions.

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 Engineering and Chemical 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. Illumination. Cr. 3. I. Prerequisite: Senior standing. Lectures and discussions dealing with production, measurement, and utilization of light. Offered only when demand justifies.

436. Electron Tubes. Cr. 3. (1-6). I, II. Prerequisite: Senior standing or consent of instructor. Theory and general applications of electron tubes.

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, Mechanical, and Textile Engineering students.

Engineering Seminar 411-2. Engineering Seminar. 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: 321-2, 330, 331-2, 410, 421-2, 423, 424, 431, 432, 433, 434, 435, 436, 437 and Engieering Seminar 411-2 if properly petitioned for in advance and provided an additional special problem is done in each course.

DEPARTMENT OF INDUSTRIAL ENGINEERING AND ENGINEERING DRAWING

PROFESSOR ST. CLAIR. ASSOCIATE PROFESSOR STREET. ASSISTANT PROFESSOR PERRYMAN. INSTRUCTOR ATKINSON.

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.

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.

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 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. 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. Cr. 2 (1-3). I. 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. Prerequisite: Engr. Dwg. 133 or the equivalent. The application of the graphic language to engineering purposes; engineering sketching, machine fastenings, conventional practice, machine details, detail and assembly drawings.

222. **Descriptive Geometry.** Cr. 2 (1-3). 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 es-

sential 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.

DEPARTMENT OF MECHANICAL ENGINEERING

PROFESSOR GODEKE. ASSOCIATE PROFESSORS KIPP, HARDGRAVE. ASSISTANT PROFESSOR VAIL. INSTRUCTOR GREEN.

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.

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.

222-3. Vocational Flight Training. Cr. 2. I and 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.

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.

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 stave 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, II. 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. 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 instru-

ments. 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, piping layouts, combustion of fuels, heat balance calculations.

423-4. **Internal Combustion Engines.** Cr. 2. I and II. Prerequisite: M. E. 331 and 341, or 335. Mechanical and thermodynamic problems involved in the application of the internal combustion engine to automobiles, trucks, airplanes, portable and stationary power plants. Application of the Otto and Diesel 2 and 4 stroke cycles, using constant and variable specific heats of gases. Auxiliary equipment.

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. Engineering Seminar. 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, 331, 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.

Petroleum engineering is a compartively new branch of engineering which has developed in recent years in response to a need for men trained in both engineering and geology for work in the petroleum industry. Instruction in the department combines thorough training in fundamental engineering subjects with training in the fundamental principles of geology and its several specialized branches, such as paleontology, petrology, and structural geology. In the Geology option the curriculum is arranged to include a number of Civil Engineering courses, whereas in the Geophysics option a number of Electrical Engineering courses are used instead.

The Production Option differs from the first two in that the training is strictly for participation in those operations which take place in an already developed oil field, namely: questions of Engineering and Geology that have to do with the practical problems of drilling wells, production, storage, and transportation of petroleum. This option contains less training in geological subjects and more training in Mechanical Engineering than the first two options and in addition contains certain specialized engineering courses dealing with problems of production.

The work of the department is intended to fit students to engage in either the engineering or the scientific phase of economic geology and to give them a basis for future specialization in whatever field circumstances may demand. The curriculum leads to the degree of Bachelor of Science in Petroleum Engineering.

The freshman year is the uniform one required of all Engineering students. The descriptions of the required courses in Geology are given under Department of Geology.

331-2. Petroleum Production Methods. Cr. 3. I and II. Formerly Geol. 439-10. Prerequisite: Geol. 131-2, Chem. 131-2, and Junior standing. Practical problems dealing with the drilling of wells, storage and transporation of oil, and oil field practice.

431. Oil Field Testing Methods. Cr. 3. (0-9). I. Prerequisite: Pet. E. 331-2. Theory and practical application tests used in oil field practice. (To be offered first in 1940-41).

432. Oil Field Engineering. Cr. 3. II. Prerequisite: Pet. E. 331-2. Engineering problems in connection with oil field production. (To be offered first in 1940-41).

433. Oil Field Equipment. Cr. 3. (2-3). I. Prerequisite: Pet. E. 331-2. Study of machinery and equipment used in oil field work, together with practice in preparing designs and plans for installation of such machinery. (To be offered first in 1940-41).

434. Gas Production Engineering. Cr. 3. (2-3). II. Prerequisite: Pet. E. 331-2. Methods of production and transportation of natural gas. (To be given first in 1940-41).

DEPARTMENT OF TEXTILE ENGINEERING

PROFESSOR HEARD. ASSISTANT PROFESSOR STANLEY. INSTRUCTOR PROBASCO.

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 textile 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. 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.

233. **Hand Weaving from Fiber to Fabric.** Cr. 3 (1-6). S. A study of fibers, preparation, dyeing, carding, spinning, warping, weaving, and finishing hand woven woolens.

234. **Cotton Classing and Marketing.** Cr. 3 (1-6). I, II. The grading, stapling, and marketing of cotton from the producer to the spinner.

235. **Textile Fibers and Yarn Preparation.** Cr. 3 (1-6). II. Textile fibers other than cotton such as silk, wool, mohair, rayon, etc. Their physical and chemical properties and preparation for yarn manufacture.

236-7. **Textile Production.** Cr. 3 (0-9). S. Prerequisite: T. E. 234 or sophomore standing in Textile Engineering. A laboratory course in textile production to enable the student to become thoroughly familiar with actual plant operation insofar as is possible in the alloted time. This course covers work in carding, spinning, warp preparation, weaving, and dyeing.

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 will include a study of the chemical and physical structure of the wool fiber, grading, sorting, scouring.

331-2. **Yarn Manufacture.** Cr. 3 (2-3). I and II. Prerequisite: T. E. 234-5. The construction and practical operation of the machines used in the manufacture of cotton and woolen yarns.

333-4. **Bleaching and Dyeing.** Cr. 3. I and II. Prerequisite: Registration in Chem. 343-4. The chemistry and principles of bleaching, dyeing and finishing of fabrics.

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. 321-2. Advanced work in design and analysis of jacquard and fancy dress materials. A continuation of the study 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 work in Textile Chemistry of dyeing and color matching.

424. **Mill Organization.** Cr. 2. I. Prerequisite: T. E. 331-2 and registration in T. E. 435. The student designs the physical properties and machinery layout of a mill to manufacture a given quantity of a textile product. As this problem is developed, lectures are given on duties of mill executives, technical staffs and textile machinery calculations.

425. **Cotton Classing and Marketing.** Cr. 2 (0-6). II. Laboratory practice in judging the grade and staple of cotton. Utility, value, commercial practices, and marketing.

433-4. **Dyeing and Finishing.** Cr. 3 (1-6). I and II. Prerequisite: T. E. 333-4. Practical application of the principles taught in T. E. 333-4.

435-6. **Advanced Yarn Manufacture.** Cr. 3. I and II. Prerequisite: T. E. 331-2. The continuation of T. E. 331-2 and experimental work on all types of yarn manufacturing machinery.

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 a cost system.

Theoretical items of cost are distributed to each productive department on bases approved by the 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 intelligent mill management.

Engineering Seminar 411-2. Engineering Seminar. 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 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 home making and for the vocations which grow out of home making 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; for those who wish to prepare themselves for teaching home economics in the high schools of the State; for those who wish to become home demonstration agents; and for 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 class rooms, 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 home making, open to the 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 student have the opportunity for practical experience in the commercial field, and also that she have post graduate courses in the specialized subject. The Division of Home Economics is prepared to give advice and 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, page 129.

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' Certificate. 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 teacher's 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 Seminar. All senior students are required to attend the home economics seminar which is 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 Textiles and Clothing, 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 a 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 Devision 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 4 semester hours of physical education, together with 130 grade points. For the Vocational Home Economics Education major 134 semester hours work are required including 4 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 IN HOME ECONOMICS

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
A. Arts. 131. Elementary Design	3	.....
*Foods 131-2. Elementary Food Preparation and Serving	3	3
**Math. 135. Mathematics for Home Economics Students	.....	3
Govt. 131-2. American Government	3	3
H. E. Or. 111. Orientation for Home Economics Students	1	.....
Physical Education	1	1
	17	16

* Clothing 131-2 may be scheduled in freshman year and Foods 131-2 scheduled in sophomore year.

**If three and one-half units are presented from high school an elective may be substituted.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE IN HOME ECONOMICS

CLOTHING AND TEXTILES MAJOR

	Semester Hours Sem. I	Sem. II

For Uniform Freshman Year See Page 133

Sophomore Year

Eng. 231-2. Introduction to Literature	3	3
Zool. 235-6. The Human Body	3	3
A. Arts 231. Costume Design	3	....
Cloth. 232. Dressmaking	....	3
Foods 131-2. Food Preparation and Serving	3	3
**Arts and Sciences electives	3	3
Physical Education 211-2.	1	1
	16	16

Junior Year

Eco. 231-2. Principles of Economics	3	3
or		
Eco. 235. Principles of Economics		
and		
Soc. or Anthrop. elective		
Psy. 231. Educational Psychology	3	....
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		
Electives from Clothing and Textiles	2	3
A. Arts elective	....	3
**Arts and Sciences electives	3	5
	17 or 18	17

Senior Year

Cloth. 431. Textile Economics	3	....
A. Arts 331. Interior Decoration	3	....
Electives from Clothing and Textiles	3	6
Electives	3	6
**Arts and Sciences electives	3	3
H. E. Ed. 411.	....	1
	15	16

**6 semester hours in History and 12 semester hours in French must be included in the Arts and Sciences electives.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE IN HOME ECONOMICS

VOCATIONAL HOME ECONOMICS EDUCATION MAJOR

For Uniform Freshman Year See Page 133

Sophomore Year

Eng. 231-2. Introduction to Literature	3	3
Zool. 235-6. The Human Body	3	3
*Cloth. 131. Elementary Textiles	3	....
Cloth. 132. Principles of Dressmaking	....	3
A. Arts 231. Costume Design	3	....
Cloth. 232. Dressmaking or	....	3
Foods 232. Meal Planning and Table Service		
Psy. 231. Educational Psychology	3	....
Electives	2	3
Physical Education 211-2	1	1
	18	16

Junior Year

Eco. 231-2. Principles of Economics or	3	3
Eco. 235. Principles of Economics and		
Soc. or Anthrop. electives		
Psy. 335. Psychology of Adolescence or	3	....
Psy. 331. Child Psychology		
Ed. 234. Principles of Secondary Education	....	3
Foods. 232. Meal Planning and Table Service or	3	....
Cloth. 232. Dressmaking		
Bact. 231. Bacteriology	3	....
H. Mgt. 331. Household Administration	....	3
Nutrition 334. Dietetics	3	....
Cloth. 333. Pattern Designing	....	3
Electives from Clothing and Textiles	2 or 3	....
Cloth. 321. Children's Clothing or Cloth. 334. Family Cloth.		
Electives from Foods and Nutrition Dept.	....	3
Foods 335. Food Preservation, Foods 331. Demon. Foods,		
Inst. Mgt. 331. Large Quantity Cookery,		
Foods 332. Food Purchasing, Foods 333. Exper. Cookery		
H. E. Ed. 331. Methods in Vocational Home Economics	....	3
	17 or 18	18

Senior Year

H. E. Ed. 431. Methods of Teaching Home Economics	3	....
H. E. Ed. 441. Student Teaching	....	4
H. Mgt. 432. Residence in Home Management House	3	....
Chem. 341. Organic Chemistry	....	4
Child. Dev. 431. Child Development	3	....
A. Arts 331. Interior Decoration	....	3
Electives Clothing and Textiles	3	....
Cloth. 334. Family Clothing, Cloth. 431. Textile Economics		
Cloth. 432. Advanced Textiles		
Nutrition 432. Advanced Nutrition or Nutrition elective	....	3
H. E. Ed. 411. Home Economics Seminar	....	1
Home Economics Electives from the following	3	....
Cloth. 435. Home Furnishings		
Inst. Mgt. 431. Catering		
Nutrition 433. Nutrition Work with Children		
Family Relations 433. Family Relations		
H. E. Ed. 432. Problems in Teaching Clothing		
H. E. Ed. 434. Methods of Teaching Art in the Homemaking Curriculum		
Elective	2	....
	17	15

*Clothing 131-2 may be scheduled in freshman year and Foods 131-2 scheduled in sophomore year.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE IN HOME ECONOMICS
FOODS AND NUTRITION MAJOR

	Semester Hours Sem. I	Sem. II
For Uniform Freshman Year See Page 133		
Sophomore Year		
Eng. 231-2. Introduction to Literature	3	3
Zool. 235-6. The Human Body	3	3
Chem. 220. Qualitative Analysis	2	.....
Cloth. 131. Elementary Textiles	3	.....
Cloth. 132. Principles of Dressmaking	.....	3
Foods 232. Meal Planning and Table Service	3	.....
Nutrition 334. Dietetics	.....	3
*Arts and Science electives	3	3
Physical Education 211-2.	1	1
	18	16
Junior Year		
A. Arts 231. Costume Design	.....	3
Eco. 231-2. Principles of Economics	3	3
or		
Anthropology or Sociology elective		
and		
Eco. 235. Principles of Economics		
Psy. 231. Educational Psychology	3	.....
Ed. 234. Principles of Secondary Education	.....	3
Foods 332. Food Purchasing	3	.....
Chem. 343-4. Organic Chemistry	4	4
Electives	3	3
	16	16
Senior Year		
Bact. 231. Bacteriology	.....	3
A. Arts 331. Interior Decoration	.....	3
or		
A. Arts. 337 or 338. Art Appreciation		
H. Mgt. 331. Household Administration	3	.....
Child Devel. 433. Family Relations	.....	3
Cloth. 431. Textile Economics	3	.....
Nutrition 432. Advanced Nutrition	3	.....
**H. Mgt. 432. Residence in Home Management House	.....	3
Child. Devel. 431. Child Development	3	.....
H. E. Ed. 411. Home Economics Seminar	.....	1
Foods and Nutrition electives	3	3
	15	16

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE IN HOME ECONOMICS
INSTITUTIONAL MANAGEMENT MAJOR

The same as Foods and Nutrition, using the following subjects as electives:
Inst. Mgt. 431. Catering
Inst. Mgt. 432. Large Quantity Cookery.
Inst. Mgt. 435. Organization and Administration.
Inst. Mgt. 436. Institutional Housekeeping.

*The same subject must be continued throughout the year and must be approved by the student's adviser.
**Or elective approved by the Dean.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE IN HOME ECONOMICS
GENERAL HOME ECONOMICS MAJOR

For Uniform Freshman Year See Page 133

	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. 131. Elementary Textiles	3	.....
and		
*Cloth. 132. Principles of Dressmaking	.....	3
A. Arts 231. Costume Design	3	.....
Cloth. 232. Dressmaking	.....	3
or		
Foods 232. Meal Planning and Table Service		
Arts and Sciences electives	3	5
Physical Education 211-2	1	1
	16	18
Junior Year		
Eco. 231-2. Principles of Economics	3	3
or		
Eco. 235. Principles of Economics		
and		
Soc. or Anthrop. elective		
Psy. 231. Educational Psychology	3	.....
Philosophy or Sociology	.....	3
Foods 232. Meal Planning and Table Service	3	.....
or		
Cloth. 232. Dressmaking		
Bact. 231. Bacteriology	.....	3 or 4
or		
Chem. 341. Organic Chemistry		
Cloth. 333. Pattern Designing	3	.....
Nutrition 334. Dietetics	.....	3
Electives	5	3
	17	15 or 16
Senior Year		
H. E. Ed. 411. Home Economics Seminar	.....	1
Child. Devel. 431. Child Development	3	.....
Child. Devel. 433. Family Relations	.....	3
Foods 332. Food Purchasing	3	.....
Cloth. 431. Textile Economics	3	.....
Cloth. 435. Home Furnishings	.....	3
A. Arts. 331. Interior Decoration	.....	3
Home Mgt. 331. Household Administration	3	.....
Electives	3	6
	15	16

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE IN HOME ECONOMICS
HOME DEMONSTRATION MAJOR

The same as General Home Economics, using the following subjects as home economics electives and general electives:

Rural Soc. 421. Methods of Research and Extension.
Foods 331. Demonstration Cookery.
Foods 335. Food Preservation.
Cloth. 322. Weaving Crafts.
Agriculture electives at least 6 semester hours.

*If clothing was scheduled in freshman year, Foods 131-2 is scheduled in sophomore year.

DEPARTMENT OF APPLIED ARTS

PROFESSOR POINDEXTER. ASSISTANT PROFESSOR HAWLEY. INSTRUCTOR ALLEN.

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 up 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 become more discriminating consumers.

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. Formerly Applied Arts 334. 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 students own immediate and future use.

233. Crafts Design. Cr. 3 (1-6) I, II. Formerly Applied Arts 335. Prerequisite: Applied Arts 232. Further practice in bookbinding, leatherwork, and wood carving. Same plan of presentation as in Applied Arts 232 of which this is a continuation.

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: 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 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.

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 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.

DEPARTMENT OF CHILD DEVELOPMENT AND FAMILY RELATIONS

PROFESSOR CALLAN

The aims of the Department of Child Development and Family Relations are: Through the understanding of the physical growth and behavior of young children to build within the student a better understanding of her own 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.

431. **Child Development.** Cr. 3 (2-3). I. Prerequisite: Psy. 230 or Psy. 231. Factors in the physical, social, and emotional development of children; emphasis on the environment factors of the home affecting the child's 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.

433. **Family Relations.** Cr. 3. II. Prerequisite: Senior standing. Factors in American family life; emphasis on present day problems relating to the home.

531-2. **Experimental Techniques in Child Study.** Cr. 3. S. Prerequisite: Graduate standing, Psychology 6 hours, including Psychology 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.

All courses in this department except Ch. Dev. 431 may be used for graduate credit provided they are properly petitioned for in advance and a special problem is done in each course numbered 400.

DEPARTMENT OF CLOTHING AND TEXTILES

PROFESSOR ERWIN. ASSOCIATE PROFESSOR BUSTER. ASSISTANT PROFESSOR LYLES. INSTRUCTORS LOONEY, ALLRED.

The Department of Clothing and Textiles has for its objectives: training of future home makers in the best known practices of providing garments and materials for the family and home; translating these practices into principles both for the homemaker and the teacher of homemaking; and providing 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. No prepreqsisite: 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, 132; 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. II. Prerequisite: Advanced standing and clothing courses satisfactory to head of department. 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. 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. Given 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, dress designs, and decorative features based on the contribution of different countries and civilizations to the development of dress. Given in alternate years; not offered in 1940-41.

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 handwoven 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 interests.

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. Offered summer 1940.

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, 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 post 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 a 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 133 and 233. The fundamental principles of cookery in relation to all types of foods. The planning and serving of simple home meals.

232. Meal Planning and Table Service. Cr. 3 (1-6). I, II. Prerequisite: Foods 132. 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). 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: Junior or senior standing in Foods and Nutrition. 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, and Nut. 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, Nut. 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 (0-6). S. Prerequisite: Junior or senior standing. 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, 322, 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.

421. **Nutrition in Diseases.** Cr. 2. II. Prerequisite: Nutrition 432 or parallel. Adaptions of diet to disorders of nutrition. Specific diseases, the prevention and care of which are largely influenced by diet. Given in alternate years. Not offered in 1940-41.

432. **Nutrition.** Cr. 3 (2-3) I, II. Prerequisite: Nutrition 334, Chem. 341 or parallel. 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 the 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 the 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 nutri-

tion. 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. 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 semester 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. It is the same as the curriculum in Foods and Nutrition, using the following subjects as electives:

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 and service for special occasions.

432. Large Quantity Cookery. Cr. 3 (1-6). II. 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). Prerequisite: Foods 232 and Institutional Management 432. A study of organization and administrative problems such as time study, employer-employee relationships, budget making, and other factors leading to the establishment of standards for effective management of institutions.

436. Institutional Housekeeping. Cr. 3 (1-6). 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 PROFESSOR ILSE WOLF. INSTRUCTOR CLEWELL

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 4 additional hours are required for graduation from 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 must have had also 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.

411. Home Economics Seminar. H. E. Ed. 411. 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, 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 90 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; classes for adults.

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 Adult Homemaking Courses. Cr. 3. II. Prerequisite: Senior standing. Organizing and developing homemaking classes for adults; program of the federal agencies dealing with the improvement of home and family life; community programs.

436. 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.

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, boys, and students below the eighth grade; with an 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 semester hours determined by the amount, nature and character of work done.

All courses in this department may be taken for graduate credit if properly petitioned for in advance and provided an additional problem in done in each course numbered 300 and 400.

DEPARTMENT OF HOME MANAGEMENT

PROFESSOR WEEKS. ASSISTANT PROFESSOR WINKELHAKE

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 home making 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 home making.

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; 12 hours in Foods and Nutrition. Living in Home Management House for six weeks under supervision. Food preparation and service, housekeeping, 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: 3 to 6 semester hours 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, H. Mgt. 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 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 in 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 curricula are listed on pages 150 and 151 of this catalogue.

Graduates of high schools fully accredited by the State Department of Education of Texas and who have not met in full the specific subject requirements as outlined under Admission Requirements, page 38, may be admitted to the freshman class of this division. Such students will be assigned to a 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 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 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 while maintaining a high standard of scholarship. 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 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 DEGREE OF BACHELOR OF ARTS

The curriculum below is to be used for all Arts and Science 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
Phil. 330. Introduction to Philosophy, and		
Psy. 230. Introduction to Psychology	3	3
or		
Six hours in a Social Science other than Government		
Physical Training or Band 211-2	1	1
	16	16

*If three and a half units of mathematics are accepted for admission, including algebra, plane geometry, and plane trigonometry, 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 in college.

**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 twenty-four semester hours in addition to the minimum degree requirements in that subject. Of these twenty-four 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 that department.

Not more than forty-two 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 twenty-four 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. Philosophy 330 and Psychology 230, or six hours in a Social Science other than Government	6
7. Laboratory science	6 or 12*
8. Orientation	1 or 2
9. Physical Training or Band	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 148.

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 the 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 or Philosophy.

The Degree 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, page 149 of this catalogue.

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	3	3
Eng. 131-2. Freshman Composition	3	3
Germ. 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 131-2. Elements of College Physics	3	3
Physics 211-2. Problems in General Physics	1	1
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 and their junior and senior years are outlined accordingly. Pre-medical students are advised to take as many courses in these departments as possible.

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.

*Students preparing for the study of dentistry or pharmacy also pursue this curriculum.

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 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 148

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 freshman year	3	3
Physical Training or Band 211-2	1	1
	16	16

Junior Year

Journalism 335. History of American Journalism	.....	3
Journalism 336-7. Advanced Reporting	3	3
Journalism elective	3	.....
Eco. 231-2. Principles of Economics	3	3
Eng. electives (to be approved)	3	3
Phil. 330. Introduction to Philosophy or Psy. 230. Introduction to Psychology	.....	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
Journalism electives	6	6
Electives (to be approved)	6	6
	15	15

*See notes at bottom of page 148.

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 Govt. 131-2 and Hist. 131-2 the freshman year, and Eco. 231-2 the sophomore year.

CURRICULUM FOR THE DEGREE OF BACHELOR OF ARTS

ECONOMICS MAJOR

For Uniform Freshman Year See Page 148

Sophomore Year

	Semester Hours Sem. I	Sem. II
Eco. 231-2. Principles of Economics	3	3
Psychology 230 or Philosophy 330	3	.....
Eco. 234. Economic Development of the United States	.....	3
Eng. 231-2. Introduction to Literature	3	3
The foreign language begun in freshman year	3	3
Govt. 131-2. American Government, National and State	3	3
Physical Training or Band 211-2	1	1
	16	16

Junior Year

Hist. 233. Economic Development of Europe	3	.....
B. A. 330. Principles of Finance	.....	3
B. A. 332. Principles of Marketing	3	.....
Phil. 330. Introduction to Philosophy or Psy. 230. Introduction to Psychology	3	.....
Electives in Economics or Business Adm. (to be approved)	3	6
Electives (to be approved from other departments)	3	6
	15	15

Senior Year

Eco. 411. Seminar in Economics and Business Adm.	.....	1
Eco. 430. Research in Economics and Business Adm.	3	.....
Eco. 434. Economic Systems	3	.....
Eco. 436. Economic Theory	.....	3
Electives in Economics or Business Adm. (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
*Mathematics or History 131-2. History of Civilization	3	3
Orient. 111. Orientation	1	....
P. E. 113-114. 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. 213-214. Physical Training	1	1
	16	16

Junior and Senior Years

Government 131-2. American Government, National and State	6
Psy. 230. Introduction to Psychology, and Phil. 330, Introduction to Philosophy or Six semester hours of a Social Science other than Government	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 148 to 149 a full discussion is had, 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 148.

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 freshman 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.

CURRICULA 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 list: (1) Biology 131-2 or Botany 131-2 or Zoology 131-2 (2) Chemistry 131-2 (3) Geology 131-2 (4) Physics 131-2 or Physics 133-4	6	6
Eng. 131-2. Freshman Composition	3	3
A foreign language	3	3
Math. 130. Algebra	3	.....
Math. 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	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 12 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.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE

BOTANY MAJOR

For Uniform Freshman Year See Page 156

Sophomore Year

	Semester Hours Sem. I	Sem. II
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
A foreign language—a second course in 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
Economics or Business Administration elective	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
Science elective (to be approved)	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 Biology 131-2; Zoology 131-2, if student has credit for Bot. 131-2.

Note: Six semester hours of American Government, National and State, must be offered in this curriculum. The Government may be taken in the place of electives or be in addition to the total semester hour requirement for the degree.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE

ZOOLOGY MAJOR

For Uniform Freshman Year See Page 156

	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
A foreign language—a second course in the foreign language begun 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
Economics or Business Administration elective	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
Science electives (to be approved)	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.

Note: Six semester hours of American Government, National and State, must be offered in this curriculum. The Government may be taken in the place of electives or be in addition to the total semester hour requirement for the degree.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE

CHEMISTRY MAJOR

	Semester Hours Sem. I	Sem. II
For Uniform Freshman Year See Page 156		
Sophomore Year		
Two Science courses, one in each of 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 A foreign language—a second course in the foreign language begun 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
A foreign language—a second course in the foreign language begun the freshman year or Eng. 231-2. Introduction to Literature	3	3
A second course in Physics	3	3
	16	16
Senior Year		
Chem. 441-2. Physical Chemistry	4	4
Chem. 411-2. Seminar	1	1
Economics or Business Administration electives	3	3
Govt. 339-10. American Government, National and State	3	3
Science Electives	6	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.

Note: Six semester hours of American Government, National and State, must be offered in this curriculum. The Government may be taken in the place of electives or be in addition to the total semester hour requirement for the degree.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE

GEOLOGY MAJOR

	Semester Hours Sem. I	Sem. II
For Uniform Freshman Year See Page 156		
Sophomore Year		
*Geol. 231. Mineralogy	3	....
*Geol. 234. Elementary Structural Geology	....	3
Two science courses—one in each of the two science departments not represented in the freshman year	6	6
Eng. 231-2. Introduction to Literature	3	3
A foreign language—a second course in the foreign language begun the freshman year	3	3
Physical Training or Band 211-2	1	1
	16	16
Summer		
**Geol. 363. Field Geology (Summer)		6
Junior Year		
Geol. 333. Petrology: Optical Mineralogy	3	....
Geol. 334. Petrology: Descriptive	....	3
Geol. 335-6. General Palentology	3	3
Science electives	3	3
Eco. 231-2. Principles of Economics	3	3
Elective	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
Geol. 435. Index Fossils	3	....
Geol. 436. Micropaleontology	....	3
Electives	3	3
***Science elective	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.

Note: Six semester hours of American Government, National and State, must be offered in this curriculum. The Government may be taken in the place of electives or be in addition to the total semester hour requirement for the degree.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE

PHYSICS MAJOR

	Semester Hours Sem. I	Sem. II
For Uniform Freshman Year See Page 156		
Sophomore Year		
*Phys. 231-2. Sophomore Physics	3	3
Two science courses—one in each of the two science departments not represented in the freshman year	6	6
Math. 235-6. Analytic Geometry	3	3
A foreign language—a second course in the foreign language begun the freshman year	3	3
Physical Training or Band 211-2	1	1
	16	16
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
	15	18
Senior Year		
Phys. 423-4. Electrical Measurements	2	2
Phys. 435-6. Introduction to Modern Physics	3	3
Phys. 511-2 or Phys. 513-4. Physics Seminar	1	1
C. E. 332. Applied Mechanics—Kinematics and Kinetics	3	3
Science elective	3	3
Govt. 339-10. American Government, National and State	3	3
Economics elective	....	3
Elective	....	1
	15	16

*In case the student has not taken Physics during his freshman year, he should begin his sophomore year with freshman Physics. The sequence of courses in Physics would then be different.

Note: Six semester hours of American Government, National and State, must be offered in this curriculum. The Government may be taken in the place of electives or be in addition to the total semester hour requirement for the degree.

CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE

MATHEMATICS MAJOR

	Semester Hours Sem. I	Sem. II

For Uniform Freshman Year See Page 156

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
One 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
C. E. 331. Applied Mechanics—Statics	.....	3
Astron. 131-2. General Astronomy	3	3
Govt. 339-10. American Government, National and State	3	3
Science Elective	3	.....
Elective (to be approved)	1	.....
	16	18

Senior Year

Math. 431. Advanced Calculus	3	.....
Math. 432. Differential Equations	.....	3
Math. 433. Theory of Equations	3	.....
Math. 438. Solid Analytic Geometry	.....	3
C. E. 332. Applied Mechanics, Kinematics and Kinetics	3	.....
Eco. 231-2. Principles of Economics	3	3
Science Elective	.....	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.

Note: Six semester hours of American Government, National and State, must be offered in this curriculum. The Government may be taken in the place of electives or be in addition to the total semester hour requirement for the degree.

CURRICULUM FOR THE DEGREE OF BACHELOR OF BUSINESS ADMINISTRATION

Uniform Freshman Year

	Semester Hours Sem. I	Sem. II
B. A. 111 or 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
Hist. 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. 111 or 121 and B. A. 131 will be taken alternately. About one half of the students will take each course each semester.

Uniform Sophomore Year

Eco 236-7. 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. 131-2. 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
Math. 339. 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. Advanced Accounting
Nine hours from B. A. 436, 437, 4310, 4311, 4314 ,4316

Finance:
B. A. 331. Corporation Finance
B. A. 337-8. Advanced Accounting
Six hours from B. A. 434, 435, 439; Eco. 331, 430

Marketing and Salesmanship:
B. A. 333. Marketing Problems
Eco. 435. Economic Cycles and Forecasting
Psy. 338. Business Psychology
Six hours from B. A. 432, 4312, 4313 T. E. 234, 235; Eco. 430

Industrial Management:
B. A. 336. Industrial Management
Psy. 338. Business Psychology
B. A. 433. Personnel Administration
B. A. 431. Office Management
B. A. 438. Retail Store 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		
B. A. 111 or 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	18
Sophomore		
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		
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 321. Business Speech	.....	2
Govt. 132. American Government, State	.....	3
T. E. 331-2. Yarn Manufacture	3	3
Electives (to be approved)	3	4
	18	18
Senior		
Eco. 411. Seminar in Economics and Business	.....	1
Eco. 431. Transportation	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. 331. Statistical Problems	3	.....
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)	5	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: (See outline on page 167).

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, 12 of which must be above sophomore rank; whereas a teaching minor requires a minimum of 18 semester hours, 6 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 furthermore no student 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-matter 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
Physical Education elective		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
Orchestra 115, or Chorus 114	....	1
Orient. 111. Orientation	1	....
Orient. 112. Orientation (Elective)	....	1
Physical Training or Band 111-2	1	1
	17	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
Chorus 213-4, or Orchestra 215-6	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 337-8. Music Education	3	3
Applied Music 325-6	2	2
Chorus 313-4, or Orchestra 315-6	1	1
	17	17
Senior Year		
Education 3316. Observation and Practice	....	3
Education 431. History of Education in the United States	3	....
Psychology 431. Mental Tests	....	3
Music 437-8. Methods and Materials	3	3
Subject matter minor	6	3
Applied Music 425-6	2	2
Chorus 413-4, or Orchestra 415-6	1	1
	15	15

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 131-2	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
Orient. 111. Orientation	1	.....
Orient. 112. Orientation (Elective)	.....	1
Physical Training or Band 111-2	1	1
	18	18
Sophomore Year		
Band 231-2	3	3
English 231-2. Introduction to Literature	3	3
Education 234-5	3	3
Government 131-2. American Government, National and State	3	3
Music 221-2. Solfeggio	2	2
Music 223-4. Harmony	2	2
Physical Training or Band 211-2	1	1
	17	17
Junior Year		
Band 331-2	3	3
Education 337. Methods in Classroom Tests	3	.....
Psychology 230. Introduction to Psychology	.....	3
Subject matter minor	6	3
Band Conducting and Methods 321	.....	2
Music 327-8. Orchestra and Choral Conducting	2	2
A Natural Science	3	3
	17	16
Senior Year		
Band 431-2	3	3
Band Conducting and Methods 421-2	2	2
Education 431. History of Education	3	.....
Education 3316. Observation and Practice	.....	3
Psychology 431. Mental Tests	.....	3
Subject Matter minor	6	3
Elective (Social Science)	3	3
	17	17

DEPARTMENT OF BIOLOGY

PROFESSORS STUDHALTER, REED. ASSOCIATE PROFESSORS LANDWER, LEAGUE. ASSISTANT PROFESSOR SEALEY. INSTRUCTORS HEFLEY, PARKER.

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 degrees, 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.

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 6 semester hours in Botany and 11 in Horticulture and Agronomy; prerequisite or parallel: 6 semester hours in Chemistry. Absorption, water transport, transpiration, nutrition, photosynthesis, respiration, growth, responses to stimuli. Given alternate years; not given 1940-41.

332. Morphology of Lower Plants. Cr. 3 (1-6). II. Prerequisite: Twelve semester hours in Botany, or 6 semester hours in Botany and 11 in Horticulture and Agronomy. Morphology of algae, fungi, liverworts, and mosses; rudiments of plant pathology. Given alternate years; not given 1940-41.

333-4. Plant Ecology. 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 field course. 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. Given alternate years; given 1940-41.

432. Advanced Plant Anatomy. Cr. 3 (1-6). II. Prerequisite: Eighteen semester hours in Botany. Advanced studies on the tissue systems of the vascular plants with emphasis on those of economic importance. Given alternate years; given 1940-41.

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 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

331-2. 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 for graduate credit: Bact. 331-2; Biol. 331, 411-2; Botany 331, 332, 431, 432; Zool. 331-2, 431-2, if an additional problem is carried; also Biol. 531-2; Bot. 531-2.

DEPARTMENT OF CHEMISTRY AND CHEMICAL ENGINEERING

PROFESSORS GOODWIN, CRAIG. ASSOCIATE PROFESSORS SCHNEIDER, SLAGLE. ASSISTANT PROFESSORS MARSHALL, OBERG. INSTRUCTORS DENNIS, GALBRAITH, ROLF.

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 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. Serves as a six semester-hour science course. 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; with Chem. 131-2, completes an eight semester-hour course in general chemistry.

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 requirement 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 12 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. Meets three hours in lecture and six hours in laboratory per week and requires no outside preparation. Prerequisite: Chemistry 131-2 and Chemistry 220 and 242. Chem. 220 and 242 may be taken in parallel by chemical engineering students. 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. 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: Chemistry 131-2 and Chemistry 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 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.

430. Technical Analysis. Cr. 3 (0-9). I, II. Prerequisite: Consent of instructor. The analysis of water, foods, feeds, alloys, rocks, and cements. Materials analyzed vary from year to year.

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.

434. Organic Preparations. Cr. 3 (0-9). II. Prerequisite: Consent of instructor. The synthesis of organic materials with special attention to technique and yields.

441-2. Physical Chemistry. Cr. 4 (3-3). I and II. Prerequisite: Chem. 220, 242, 331-2, 343-4, 5 semester hours in calculus, 6 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: Chemistry 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, organic and physical chemistry and in chemical engineering.

537-8B. Advanced Chemical Engineering. Cr. 3. I and II. Prerequisite: Chemistry 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. Modern theories of organic chemistry. Laboratory work consists of qualitative organic analysis. Prerequisite: Graduate standing.

537D. Spectrographic Analysis. Cr. 3 (2-3). I. Quantitative spectrographic analysis. Prerequisite: Graduate standing.

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, 430, 434, 441-2 if an additional prob-

lem is carried; also 537-8A, 537-8B, 537-8C, 537D, 538E. In addition either Chemistry 331-2 or Chemistry 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. ASSISTANT PROFESSOR JACKSON. ACTING ASSISTANT PROFESSOR RUSHING. INSTRUCTORS ERICKSON, 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 in the solution of the problems of the individual as well as those of society. Increased income, more consumption 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 react increasingly 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.

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 program. 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 management. 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 after the freshman courses have been completed. 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, 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.

236-7. Principles of Economics. Cr. 3. Each, I, II. Prerequisite: B. A. 131 and Eco. 131. For Majors in the department who have had B. A. 131 and Eco. 131. Modern economic society and modern economic problems. Forms of business organizations. Prices, money, banking, transportation, taxation, interest, rent, profits, labor problems. Proposed economic reform.

331. Money and Banking. Cr. 3. I. Prerequisite: Eco. 231-2 or 236-7. 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: Eco. 231-2 or 236-7. 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: Eco. 231-2 or 236-7. Analysis of the economic 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: Eco. 231-2 or 236-7. 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. Prerequisite: Senior standing in the department. Research methods used in the field. A definite problem will be undertaken for actual experience on the part of the students.

431. Transportation. Cr. 3. II. Prerequisite: Eco. 231-2 or 236-7. 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: Eco. 231-2 or 236-7. 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: Eco. 231-2 or 236-7. 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: Eco. 231-2 or 236-7. 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: Eco. 231-2 or 236-7. 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: Eco. 231-2 or 236-7. 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: Eco. 231-2 or 236-7, junior standing. 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: Eco. 231-2 or 236-7, and Eco. 332. Economic and legal problems arising out of the development of public utilities, the evolution of rate structures, service demands, intercorporate 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. Given in alternate years; not given in 1940-41.

439. Public Control of Business. Cr. 3. II. Prerequisite: Eco. 231-2, and junior standing. 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, II. Formerly Eco. 531. 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 one year of typewriting in high school, or its equivalent. Typewriter rental, $4 per semester.

122. Advanced Typewriting. Cr. 2. (0-5). I, II. Prerequisite: B. A. 111 or 121. Advanced copy work and dictation. Preparation of stencils, business forms. 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. I and II. Prerequisite: B. A. 111 or 121, 122. A beginners' course covering the reading of shorthand, the penmanship of shorthand, simple transcription, letter writing.

234-5. **Introduction to Accounting.** Cr. 3. (2-3). I and II. Prerequisite: Sophomore standing. Intended for students other than majors in the department. Introduction to bookkeeping and accounting, covering principles of accounting, financial statements, and system for the sole proprietorship; corporation problems and interpretation of statements.

244-5. **Introduction to Accounting.** Cr. 4. (3-3). I and II. Prerequisite: Sophomore standing. Introduction to bookkeeeping and accounting, covering principles of accounting, financial statements, and systems for the sole proprietorship. Corporation problems and 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: Eco. 231-2 or 236-7. 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. Materials covering consumer's buying habits, department store operation, cooperative buying, direct selling, control of sales force. Local field trips.

334-5. **Business Law.** Cr. 3. I and II. Prerequisite: Eco. 231-2 or 236-7. 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: Eco. 231-2 or 236-7. The executive problem of production, types of executive controls, scientific management, buildings, layouts, control of operations, wage systems, personnel, standardization, budgets. Given in alternate years. Given in 1940-41.

337-8. **Advanced Accounting.** Cr. 3. I and II. Prerequisite: B. A. 244-5, Eco. 236-7 or equivalent. Advanced principles of accounting. Problems peculiar to partnership and corporation. Accounting for insolvent concerns. Joint ventures, depreciation, consolidated statements.

339-10. **Secretarial Practice.** Cr. 3. 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.

361. Field Problems in Business. Cr. 6. Summer only. 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 and 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 450 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. I. Prerequisite: B. A. 122. 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, and billing machine.

430. Methods of Teaching Commercial Subjects in the 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 Eco. 236-7, and junior standing. 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. I. Prerequisite: Junior standing in the department. Advertising elements such as copy, layout, media, topography. Problems applied to the principles of advertising. Journalism 435, Advertising, may be substituted for this course.

433. Personnel Administration. Cr. 3. II. Prerequisite: Eco. 231-2 or 236-7. 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. II. 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. Cost Accounting. Cr. 3. I. Prerequisite: B. A. 244-5, Eco. 236-7, or equivalent. Records and reports for the cost department. Methods of allocation of overhead costs. Records and principles for handling material, labor, and indirect costs. Given alternate years; not given 1940-41.

437. Auditing. Cr. 3. II. Prerequisite: B. A. 244-5, Eco. 236-7, or equivalent. Auditing procedure, classification of audits and investigations. Methods of verification of financial statements. Advanced auditing and accounting problems and principles. Given alternate years; not given 1940-41.

438. Retail Store Management. Cr. 3. I. Prerequisite: Eco. 231-2 or 236-7, B. A. 332. The training of employees, wage systems, workmen's compensation laws, collective bargaining, trade agreements.

439. Credits and Collections. Cr. 3. II. Prerequisites: 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, Eco. 236-7 or equivalent. 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 students. Given in alternate years; given 1940-41.

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. Given in alternate years; given 1940-41.

4312. Salesmanship. Cr. 3. I. Prerequisite: Junior standing in the department. Problems involved in selling goods and services. Stress will be placed on principles involved in selecting and selling other than over the counter.

4313. Commodity Marketing. Cr. 3. II. Prerequisite: Junior standing in the department. A specialized study of problems involved in marketing commodities of the students' choice.

4314. Advanced Accounting Problems. Cr. 3. I. Prerequisite: An average of B in Accounting 337-8. Advanced work in accounting theory and practice. Problems embracing special accounting aspects of partnerships, governmental units and non-profit organizations, organizations in financial difficulty, fiduciary relationships, investments, and foreign exchange.

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 and Eco. 236-7 or Eco. 231-2. Application of accounting principles and systems to the requirements of governmental units, state, county, and municipal bodies. Emphasis to be placed upon budgetry and fund accounts. Given in alternate years; given 1940-41.

4317. Insurance. Cr. 3. II. Prerequisite: Eco. 231-2 or 236-7, B. A. 244-5 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.

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, 4317, 436, 437, 438, 439, 4310, 4311, 4312, 4313, 4314, 4316. 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 in a first-class college, including 108 hours (6 semester hours) in English, and 108 hours (6 semester hours) in elementary Education, an elementary certificate valid for four years, or a high school certificate valid for two years, may be issued.

Any course in Education may be used for the two-year high school certificate.

Six-Year Elementary or Four-Year High School Certificate. On completion of ten college courses in a first-class college, including 216 hours (12 semester hours) in Education, a four-year high school certificate, or six-year elementary certificate may be issued. Any two courses in Education will be accepted for the elementary certificate valid for six years, but an applicant must have credit for one full year that bears wholly on high school Education before the high school certificate may be issued.

Six-Year High School Certificate. On completion of fifteen college courses, including three courses in Education, a six-year high school certificate may be issued, provided one year bears wholly on high school education, and one term includes a minimum of thirty-six recitation hours in practice teaching.

Permanent High School Certificate. A permanent high school certificate may be issued on a Bachelor of Arts degree, or its equivalent, and four courses in Education. Two of the courses may be courses in Education, one of the courses must bear wholly on high school education, and one course must include methods, observation of methods, and practice in teaching. (6 semester hrs. high school education, 2 sem. hrs. high school methods and 2 sem. hrs. of practice teaching are required.)

A permanent high school certificate may be issued on a Bachelor of Arts degree or its equivalent, two courses in Education, and three years of teaching experience. One course in Education must bear wholly on high school Education, and the teaching experience must be had after the degree is conferred.

One Year Extension of Certificates of Any Grade. Students of Texas Technological College have the privilege of taking advantage of a new certificate law, which is designed to extend for one year a certificate of any grade. This requires the completion of six semester hours, in summer school only, for the extension of certificates expiring during the current year after the opening of summer school.

Students who are registered in the Division of Agriculture, Home Economics, or Engineering may, by arrangement between the Dean of the Division and the Head of the Department of Education, take sufficient courses in Education and Psychology to meet the requirements for a State certificate, and thus may take their degrees in the Division in which they are registered and also qualify themselves to teach general agriculture, home economics, shop work, industrial training, or combinations of these and other high school subjects when they are able to meet the requirements of the State Department of Education.

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. Government 320 will satisfy the minimum requirement for the teacher's certificate for students who enrolled in a state supported institution prior to Sept. 1, 1937. Those who enrolled after that date will be required to satisfactorily complete a minimum of 6 semester hours in courses in government covering the Federal and Texas constitutions. This applies to all detailed statements of curricula published in this catalogue. It applies also, with certain modifications to teachers certificates and all statements in this catalogue are subject to same.

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 basal 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 student, 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 credits. 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. Offered in Summer Session only.

229. Rural Education. Cr. 2. S. The function of the rural school; the status of the rural school as to teachers, curricula, buildings and equipment, enrollment and attendance, administration and supervision, and financial support; some proposed reforms in certain phases of rural education.

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. Given in alternate years; not given in 1940-41.

234. Principles of Secondary Education. Cr. 3. I, II. Prerequisite: Sophomore standing. Basic principles underlying secondary education includ-

ing 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; quizzes, examinations, marking.

***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.

311-2. Seminar. Cr. 1. I and II. Prerequisite: Junior or senior standing. Assignments, readings, reports and discussions of recent educational problems. May be repeated for credit.

***331. Principles of Education.** Cr. 3. I. Prerequisite: Junior standing. Educational theory stressing the more important principles involved in the processes of education. Special attention to the biological, psychological, and sociological bases and processes of development and adjustment.

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. Given in alternate years; given in 1940-41.

*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 a criteria for selecting books for different age and interest levels. Given in alternate years. Not given in 1940-41.

*3311. **Diagnosis and Improvement of Reading.** Cr. 3. S. Prerequisite: Junior standing in Education. Causes and analysis of reading difficulties. Remedial programs and improvement records.

*3314. **The Principal and His School.** Cr. 3. S. Similar to Ed. 320; credit may not be allowed for both of these courses. Prerequisite: Junior standing in Education. The organization and operation of a school building unit, dealing with the varied duties of the principal in administering a school.

3315. **Visual 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: 9 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.

411. **Ethics of the Teaching Profession.** Cr. 1. II. 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 fields of psychology and sociology in relation to the principles and processes of education. Given in alternate years; given in 1940-41.

*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. **School Publicity.** Cr. 3. II. Prerequisite: Junior or senior standing in Education. The aims and underlying principles of school publicity policy, organization of publicity, media of approach to the public, and appraisal of publicity work.

*434. **The Supervision of Instruction.** Cr. 3. I. Prerequisite: Junior or senior 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-curricula 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.

*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 primary Education. 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. Formerly **The Primary Curriculum.**

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. **Foundation of Education.** Cr. 3. S. Prerequisite: Graduate standing in Education. Survey of major social philosophies; their biological, psychological and historic 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. 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 the 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 in 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.

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. 311, 312, 331, 332, 334, 335, 336, 337, 338, 339, 3310, 3311, 3314, 3315, 3318, 411, 430, 431, 432, 433, 434, 435, 436, 439, 4311; Psy. 322, 331, 333, 335, 337, 431, 433, 434, if an additional problem is done in each case; also Education 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.

Explanation of duplicate numbers of courses carrying both three and two hour credit see paragraph immediately preceding course descriptions in this department. Herewith is 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.

	3 hour	2 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
	4311	4211
	432	422
	433	423
	434	424
	435	425
	436	426
	439	429
	531	521
	532	522
	533	523
	534	524
	535	525
	536	526
	538	528

	3 hour	2 hour
Psychology	331	321
	333	323
	335	325
	431	421
	433	423
	434	424

DEPARTMENT OF ENGLISH

PROFESSORS *CARTER, CUNNINGHAM, DOAK, GATES, MILLS, SMALLWOOD, STROUT. ASSOCIATE PROFESSORS ALLEN, GUNN, McGEE, MURPHY. ASSISTANT PROFESSORS CAMP, GILL, HORN, TEAGUE. INSTRUCTORS CARTER, GRIFFIN, KENNEDY, WALTER.

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, reading, themes, and quizzes. 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.

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, October 11, 1939.

3309. 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: Credit for freshman English with a grade as high as B, and credit for 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 Mannering.*

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.

430. Elizabethan Drama. Cr. 3. I. A study of representative plays written by the most significant of Shakespeare's contemporaries.

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, Anthony 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. English 432 not a prerequisite.

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. Eng. 4310 not a prerequisite. Selected reading from the poetry of D. G. Rossetti, Christina Rosetti, 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: Credit for 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.

532. **History of the English Language.** (Formerly 332). Cr. 3. II. The development of the English language from the beginnings, with special reference to the use of English in America.

534. **Old English.** Cr. 3. I. The phonology and morphology of Old English, together with a reading of **Beowulf.**

536. **Outline of American Literary History: 1608 to the Present:** Cr. 3. II. Orientation. Chronology, literary types, sectional movements, and foreign influences. Primarily for graduates, especially those who intend to teach English in high school.

537. Spenser. Cr. 3. II. The shorter poems, and selected cantos of *The Faerie Queene:* incidental interpretation of allegory in the poem.

5311. Seminar in Literary Criticism. Cr. 3. II. The history and principles of literary criticism. The historical study begins usually with Aristotle and surveys the contributions of outstanding critics to the present time; the lectures on the principles seek to examine the various schools of criticism and the norms on which they base their evaluations.

5312-5313. Thesis Course. Cr. 3-6. I and II. Prerequisite: Graduate standing. Credit depends upon amount and quality of work done.

PROGRAM OF GRADUATE STUDY

The following English courses may be taken for graduate credit if an additional problem is carried: 330, 336, 337, 338, 339, 3313, 3314, 3315, 3316, 3317, 3318, 3319, 3320, 3321, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 4310, 4311, 4312, 4313, 4315, 4316.

English 532, 534, 536, 537, and 5311 are primarily graduate courses and require no additional problem.

DEPARTMENT OF FOREIGN LANGUAGES

PROFESSOR QUALIA. ASSOCIATE PROFESSORS WHATLEY*, HENNINGER, GATES. ASSISTANT PROFESSORS STREHLI, DINGUS. INSTRUCTOR ALDEN. SPECIAL LECTURER D'ANCONA.**

The Department of Foreign Languages offers instruction in German, French, Latin and Spanish. Sufficient work is offered for a major in all 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 subjects which may be effectively combined with a foreign language are Speech, History, 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.

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 towards 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.

*On leave during Spring Semester, 1940.
**Appointed for the Spring Semester, 1940.

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. Given in alternate years; given in 1940-41.

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. Given in alternate years; not given in 1940-41.

435. Teachers' 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. Given 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. Given at intervals, when demand justifies.

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. Given in alternate years; given in 1940-41.

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. Given in alternate years; not given in 1940-41.

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 oustanding 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. Given at intervals, when demand justifies.

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. Given 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. Given at intervals; given in summer, 1940.

4321. The Poetry of the Golden Age. Cr. 3. Formerly Spanish 5310 and 636. Prerequisite: Spanish 331-2. An intensive study of the major poets of the sixteenth and seventeenth centuries. Given 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 Nuñez de Arce. Given 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*. Given 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. Registration may be made at any time with the consent of the department head.

5314-15. Thesis Course. Credit: three to six hours, depending upon the character of work done. Prerequisite: graduate standing. Formerly Spanish 631-2.

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. Given in alternate years; given in 1940-41.

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. Given in alternate years; not given in 1940-41.

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 scientfic 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

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. Cicero's De Senectute and De Amicitia, The Phormio of Terence, and The Odes of Horace. 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. Formerly Latin 331-2. Prerequisite: Latin 331-2. Authors read vary from year to year. Given in alternate years; not given in 1939-40.

433-4. Advanced Reading. Cr. 3. I and II. Formerly Latin 333-4. Prerequisite: To be determined by the instructor. Given in alternate years; given in 1939-40.

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 carrried.

DEPARTMENT OF GEOLOGY AND PETROLEUM ENGINEERING

PROFESSORS PATTON, STAINBROOK. ASSOCIATE PROFESSORS ROBINSON, SIDWELL. ASSISTANT PROFESSOR GLOCK.

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 lan-

guages. 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.

GEOLOGY

121. Principles of Geology. Cr. 2. I, II. Important principles of geology. History of the earth and its inhabitants. For students desiring a brief course in geology for cultural purposes only. Not accepted as fulfillment of science requirement.

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.

133. Principles of Geology with Laboratory Work. Cr. 3. (2-3). II. Lectures of Geology 121 with selected laboratory exercises from Geology 131-2. To be preceded by Physics 137 to make a year's science credit for students taking a major in the Departments of Music and Speech.

231. Mineralogy. Cr. 3. (1-6). I, II. Prerequisite: Preceded or accompanied by Geology 131-2 and Chemistry 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 and 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. Cr. 3. II. 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. Given in 1940 and alternate years.

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. Given in 1939 and alternate years.

333. Petrology: Optical Mineralogy. Cr. 3. (1-6). I. Prerequisite: Geol. 131-2 and 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 veterbrates 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 of Geol. 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 and 335-6. Deformation and structures of rocks with special emphasis on the relation of these 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.

436. **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: Twenty-four 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.

535-6. **Advanced Work in Specific Fields.** Credit varies. I and II. Prerequisite: Twenty-four hours in Geology and graduate standing. Course and credit to depend upon the preparation and need of the student and the work done. Registration only with approval of the Head of the Department.

During the year 1939-40 the following courses were given:

Structure of Oil and Gas Reservoirs. Cr. 3. I and II. Detailed examination of the form and cause of selected productive structures. With the facts derived from field studies the student is encouraged to set up many hypotheses and to select those of greatest value.

Advanced Sedimentation. Cr. 3. I and II. Individual investigation to determine the characteristics of sediments in the different environments: emphasis of relation of diastrophism and climate to origin of sediments.

Research in Petrography of Igneous Rocks. Cr. 3. I. Petrographic study of the igneous rocks encountered in the deep well borings of the Texas Panhandle Oil and Gas Fields.

Advanced Economic Geology. Cr. 3. I. Detailed study of the occurrence and genesis of ore deposits of the western part of the United States.

Stratigraphy of the United States. Cr. 3. I and II. A survey of the formations of the United States of economic importance, with the study of the principles of correlation, and their application.

Ground Water Hydrology. Cr. 3. II. The occurrence, motions, and activities of subsurface water, and the hydrologic properties of water bearing materials.

537-8. Vertebrate Palentology. Cr. 3. I and II. Prerequisite: Permission of department. History of the vertebrates with special emphasis upon (a) the early reptiles; (b) the mammals; (c) the relationship of vertebrate history to earth history as a whole.

539-10. Thesis. Cr. 3-6. I and II. Research and preparation of report. Credit depends upon amount and quality of work done.

GEOGRAPHY

131-2. Principles of Geography. Cr. 3. I and II. Geographic factors especially as they effect the activities of man. The geography of one of the continents taken up in detail second semester. Special emphasis upon relief, development, industries, and communication.

331-2. Resources and Industries of the World. Cr. 3. I and II. Non-laboratory. For Economics and Business Administration students. Types, distribution, and conservation of world resources; the factors that favor the development and distribution of industries.

PETROLEUM ENGINEERING

331-2. Petroleum Production Methods. Cr. 3. I and II. Formerly Geol. 439-10. Prerequisite: Geol. 131-2, Chem. 131-2, and Junior standing. Practical problems dealing with the drilling of wells, storage and transportation of oil, and oil field practice.

431. Oil Field Testing Methods. Cr. 3. (0-9). I. Prerequisite: Pet. E. 331-2. Theory and practical application tests used in oil field practice. (To be offered first in 1940-41).

432. Oil Field Engineering. Cr. 3. II. Prerequisite: Pet. E. 331-2. Engineering problems in connection with oil field production. (To be offered first in 1940-41).

433. Oil Field Equipment. Cr. 3. (2-3). I. Prerequisite: Pet. E. 331-2. Study of machinery and equipment used in oil field work, together with practice in preparing designs and plans for installation of such machinery. (To be offered first in 1940-41).

434. Gas Production Engineering. Cr. 3. (2-3). II. Prerequisite: Pet. E. 331-2. Methods of production and transportation of natural gas. (To be given first in 1940-41).

The following courses in this department may be taken for graduate credit: Geol. 333, 334, 335-6, 337-8, 363, 411-2, 413-4, 427-8, 431-2, 433, 434, 435, 436, 511-2, 523-4, 535-6, 537-8, 539-10; Pet. Engr. 431, 432, 433, 434 provided a special problem is done in each course numbered 300 and 400.

DEPARTMENT OF GOVERNMENT

PROFESSORS PENDER, *OGDON. ASSISTANT PROFESSOR JACKSON. INSTRUCTORS DAVIS, RIETHMAYER, **ALLBRIGHT

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 organizaton of public opinion.

*On temporary leave beginning January 1, 1940
**Temporary appointment, effective January 1, 1940

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.

320. **American Government, National and State.** Cr. 2. I, II. An intensive study of American Government, both national and state. Work largely based upon the constitutions of the United States and Texas. Primarily for technical students who entered college prior to Sept. 1, 1937.

321. **Introduction to the Study of Law.** Cr. 2. II. 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. Given in alternate years. Given in 1941-42.

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. Given in alternate years. Given 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. Given in alternate years. Given 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. Given in alternate years; given in 1941-42.

334. **American Political Parties, Party Analysis.** Cr. 3. II. Prerequisite: American Government. Party functions, organization, finance, campaign methods, and elections. Given in alternate years; given in 1941-42.

335. **American Foreign Relations.** Cr. 3. I. The control and conduct of the relations of the United States with the outside world. Given in alternate years; given in 1940-41.

336. **American Diplomacy.** Cr. 3. II. Prerequisite: American Government. Foreign policies of the United States. Topical treatment. Given in alternate years; given in 1940-41.

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. Given in alternate years; given in 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. Given in alternate years; given in 1940-41.

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. Given in alternate years; given 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. Given in alternate years; given in 1940-41.

435-6. International Law. Cr. 3. I and II. Prerequisite: American Government or 6 semester hours of History. The fundamental principles of international law with special emphasis upon American interpretations and American contributions to the growth of the law. Given in alternate years; given in 1940-41.

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. Given in alternate years; given in 1941-42.

438. World Politics. Cr. 3. II. Prerequisite: American Government or 6 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. Given in alternate years; given in 1941-42.

531-2. Reading and Research. I and II. Registration may be made at any time upon approval of the Head of the Department. 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. ASSOCIATE PROFESSOR 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 (thirty-six 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 476 A. D.; second semester, since 476 A. D. Open to all students.

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 1852; second semester, 1852 to the present.

330. Teaching of 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. Not given in summer of 1940.

331-2. History of Europe Through the Renaissance. Cr. 3. I and II. Prerequisite: Hist. 131-2 and Junior standing. Greek civilization, Roman civilization, and the Renaissance; the background of modern European civilization. Given in alternate years; given in 1940-41.

333-4. Modern Europe, 1492-1870. Cr. 3. I and II. The Reformation; the development of nationalism and enlighted 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. Given in alternate years; not given in 1940-41.

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. Given in alternate years; given in 1940-41.

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. Given in alternate years; not given in 1940-41.

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. Given in alternate summers; not given in summer of 1940.

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. Given in alternate years; given in 1940-41.

3315. Japan and China. Cr. 3. II, S. The social, economic, and political background for Japan's imperialistic policy toward China. Given in alternate summers; given in summer of 1940.

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. Given in summer of 1940.

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. Given in alternate summers; not given in summer of 1940.

431-2. History of Latin America. Cr. 3. I and II. Exploration, colonization, revolution, political development, social and economic problems, and Pan-American relations. Given in alternate years; given in 1940-41.

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. Given in alternate years; not given in 1940-41.

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 Carribean policies; the World War. Given in alternate summers; not given in summer of 1940.

436-7. History of the United States, 1789-1841. Cr. 3. I and II. The federalist and republican periods; second war with Great Britain; the rise of nationalism and the Jacksonian era. Given in alternate years; given in 1940-41.

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. Given in alternate years; not given in 1940-41.

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. Given in alternate summers; not given in summer of 1940.

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. Given in alternate years; given in 1940-41.

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. Given in alternate years; not given in 1940-41.

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. Given in alternate summers; not given in summer of 1940.

4316-17. The United States Since the World War. Cr. 3. I and II. Postwar readjustments; return of the Republicans; economic policies, agriculture; life in the 1920s; the New Deal and its record; life in the 1930s. Given in the summer of 1940.

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 the thesis.

ANTHROPOLOGY

331-2. Anthropology. Cr. 3. I and II. Prerequisite: Hist. 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: Hist. 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. Given in alternate summers; given in summer of 1940.

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. Given in alalternate summers; not given in summer of 1940.

438-9. North American Archaeology. Cr. 3. S. Prerequisite: Permission of the instructor. A field course. Lectures, research, and excavation. Given in alternate summers; not given in the summer of 1940.

531-2. Seminar in Anthropology. Cr. 3. I and II. Prerequisite: Graduate standing.

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, 530, 535, 536, 537, Anthro. 331-2, 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.

Sophomore standing is prerequisite for any course in journalism.

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 print shop 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.

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 20 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 18 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.

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.

321-2. Press Photography. Cr. 2. 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. Six hours of laboratory work a week.

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 typography of advertisements. Harmonious relationship between type, paper, ink, and engravings. Plates and plate making, duplicating processes and presses. Prerequisite to Journalism 435-6.

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.

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. Given in alternate years; not given in 1939-40.

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. ASSOCIATE PROFESSORS THOMPSON, HEINEMAN. ASSISTANT PROFESSOR HAZLEWOOD. INSTRUCTORS CHRISTIANSON, WAKERLING, OLLMAN, MILLER, WOODWARD, MAY.

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 prerequisite 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.

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. 131. The straight line and conic sections, transformation of coordinates, polar coordinates.

135. Mathematics for Home Economics Students. Cr. 3. I, II. Selected topics from arithmetic, algebra, business mathematics, statistics, with special applications to the problems arising in home economics.

***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, annunities, 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.

*Credit will be given for Math. 130 or Math. 137, but not for both.

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.

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.

338. Mathematics of Insurance. Cr. 3. II. 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.

339. Business Statistics. Cr. 3. I. 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.

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.

432. Differential Equations. Cr. 3. I. 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, coaxal 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 1939-40.

530. Vector Analysis. Cr. 3. S. Prerequisite: Math. 336. Scalar and vector products, divergence, gradient, curl applications.

531. Mathematical Statistics. Cr. 3. I. Prerequisite: Math 251 or Math. 335. 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: Mathematics 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: Mathematics 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, 530, 531, 533, 534, 535, 536, 537, 538, 539, 5310, 5311 if an additional special problem is taken in each course numbered 400.

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 on pages 20 and 21.

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. See page 165, and a descripiton of courses, page 167. Also see pages 165 to 166 for general regulations for the degree of Bachelor of Science in Education.

For the Bachelor of Arts degree with a Music major, the student will complete the requirements in Music outlined on page 155; also the general requirements for the Bachelor of Arts degree as given on pages 147 to 155. 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 because of the amount of daily practice in Applied Music. It is further suggested that a major in Music should not be attempted unless the student presents for admission the public school units which will reduce the requirements in mathematics and science.

For students desiring to offer a minor in music the following courses are suggested: Music 121-2 or 123-4; Applied Music 125-6, 225-6; Music 335-6 or 337-8. Chorus electives: 313-4, 413-4. See Band courses, page 168.

The holder of the degree of Bachelor of Science in Education with a Band major may offer twelve hours in the following branches as a minor on the degree of Master of Science in Education: Band 521-2, 523-4; Music 327-8, 335-6, 337-8, 437-8, 521-2; Band 421-2, 431-2, if properly petitioned for in advance and if an additional special problem is taken; or the Applied Music courses, 325-6, 425-6, 425B-6B.

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 on the degree of Master of Science in Education: Applied Music 325-6, 425-6, 425B-6B; Band 331-2, 431-2, 521-2; and Music 521-2.

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 schooled 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 the five headings: Music, Band, Chorus, Orchestra, and Applied Music. The letter "B" added to the course (525B-6B or 413B-4B) signifies more extended work in the senior year.

MUSIC

Theory

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 as adopted by Royal Conservatories and public schools of Belgium.

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.

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.

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, alternations, harmonization of melodies, suspension, retardation, anticipation, chords of the ninth.

327-8. Conducting. (Theory) 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. This course is a prerequisite to any form of applied conducting as a course or part of a course.

335-6. History and Appreciation. Cr. 3. I and II. Prerequisite: Junior standing. Envisaged as a cultural course with the object of acquainting the student with the 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.

337-8. Music Education. Cr. 3. I and II. Also known as Public School and School Music. The material and methods, ways and means of teaching music, both vocal and instrumental, to school children; the pedagogy of music, embracing the principles required for a scientific music foundation; the qualifications necessary in 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.

437-8. Methods and Material. (Methodology). Cr. 3. I and II. Also known as Public School and School Music, second year. Prerequisite: Music 327-8. The science of pedagogy applied to students of high school age, embracing the technique of teaching vocal and instrumental music; group activities, chorus and ensemble work; musical appreciation; more advanced theory; observation and practice teaching in Lubbock Public schools under supervision of the College Department of Education.

521-2. Orchestral Stringed Instruments. Cr. 2. S. Designed to train band majors and other graduate students in music to direct and organize string orchestras, ensembles, and public school symphony orchestras. Experience in tuning, bowing, and fingering stringed instruments. Study of the clefs. Transposition. Instrumental substitution. Score Reading. Experience in directing. Open to graduate students only.

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.
413B-4B. Additional senior work. Cr. 1. I and II.

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.
415B-6B. Additional senior work. Cr. 1. I and II.

Applied Music

The outline of courses in Applied Music here listed permit 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 individual 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. This class is on the order of a Master's class and quasi normal course. 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 Texas Tech music faculty member.

Violin or Cello Class

Applied 128-9 (Violin or Cello). Freshman year. Cr. 2. I and II. (No special music tuition.) Prerequisites: Three years of training 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. Freshman Year. Cr. 2. I and II. Czerny; Burgmiller; Heller, Bach; Mendelssohn; ensemble.

225-6. Sophomore Year. Cr. 2. I and II. Czerny; Kullak Octave studies: Heller; Bach—two part inventions; Mendelssohn ensemble playing.

325-6. Junior Year. Cr. 2. I and II. Chamer; Kullak Octave studies; Bach—Three part inventions; Chopin Etudes; ensemble playing.

425-6. Senior year. Cr. 2. I and II. Clementi Baih—Well Tempered Clavichord; Chopin Etudes; ensemble playing. Public recital.

425B-6B. Additional senior work. Cr. 2. I and II.

Voice

125-6. Freshman Year. Cr. 2. I and II. Fundamentals of voice production; modern songs.

225-6. Sophomore Year. Cr. 2. I and II. Continuation of fundamentals; standard book studies; classic songs.

325-6. Junior Year. Cr. 2. I and II. Continuation of fundamentals; arpeggios and chromatic scales. Operatic selections; modern songs.

425-6. Senior Year. Cr. 2. I and II. Selected studies in interpretation of classical modern songs; recitatives and arias. Public recital.

425B-6B. Additional senior work. Cr. 2. I and II.

Violin

125-6. Freshman Year. Cr. 2. I and II. Franz Wolfhart—Last part of Book II, Book III, Flesch Scale Studies; Mazas—Book I. De Beriot and Alard Methods.

225-6. Sophomore Year. Cr. 2. I and II. Mazas—Book II; Sevcik (double stopping and preparatory); trill studies; Flesch—scale studies and shifting exer-

cises; Beethoven, Schumann, Dvorak, and compositions by selected composers.

325-6. Junior Year. Cr. 2. I and II. Kreutzer Etudes; Beginning of Fiorillo Bowing Studies; De Beriot Concerto No. VII; Selected repertoire.

425-6. Senior Year. Cr. 2. I and II. Kreutzer and Fiorillo, continued; Rode caprices; concertos of De Beriot, Bruch; Bach Sonatas; selected repertoire, classic and modern, for recital.

425B-6B. Additional senior work. Cr. 2. I and II.

Viola

(Only Freshman and Sophomore courses offered.)

125-6. Freshman Year. Cr. 2. I and II. Method. Gavallini-Guida and Richard Huffman and repertoire (for both years).

225-6. Sophomore Year. 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.

425-6. Cr. 2. I and II. Studies by Duport, Romberg Concertos, Modern Concert Repertoire.

425B-6B. Additional senior work. Cr. 2. I and II.

Reed Instruments

125-6. Cr. 2. I and II.
225-6. Cr. 2. I and II.
325-6. Cr. 2. I and II.
425-6. Cr. 2. I and II.
425B-6B. Additional senior work. Cr. 2. 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.
425-6. Cr. 2. I and II.
425B-6B. Additional senior work. Cr. 2. I and II.

BAND

Students desiring to major or minor in band music should follow the schedule of courses outlined for the degree 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 several 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.

131-2. Band. Cr. 3. I and II. 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.

231-2. Band. Cr. 3. I and II. 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, and marching formations as practiced by the full band.

321. Band Conducting and Methods. Cr. 2. I. 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.

331-2. Band. Cr. 3. I and II. Study materials in keeping with the advancement of the student. Concert numbers to include overtures and symphony movements by Beethoven, Bizet, Massanet, 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.

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, Tschaikowsky, Liszt, and many others.

431-2. Band. Cr. 3. I and II. Concerted numbers to include some of the larger works of the modern. Works of Tschaikowsky, Wagner, Dvorak, Ravel. Debussy, Rimsky-Korsakoff and others. Study material and solos in keeping with the grade of advancement.

431B-2B. Band. Additional Senior work. Cr. 3. I and II.

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 composer's 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 Poem. Cr. 2. S.

Courses in this department which may be taken for graduate credit are: Applied Music 325-6, 425-6, 425B-6B; Music 327-8, 335-6, 337-8, 437-8, if properly petitioned for in advance and if an additional special problem is carried; also Music 521-2. Band 331-2, 421-2, 431-2, if properly petitioned for in advance and if an additional special problem is carried; also Band 521-2.

MUSIC TUITION

Not covered by college tuition. 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		
	Violin	required. See Music 138-9 Freshman course.		
Miss Beulah Dunn	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."

*Not more than 4 students per teacher constitute a group.
**One half the listed credit.
***Accredited if enrolled through the Music Demonstration Class.

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 philosophies 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. Readings on selected topics, reports, conferences, and examinations.

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 develop-

ment of society; individual and social interests; social forces, social control; social change; group contacts and social progress.

Sociology 330, 331, and 333 may be used to satisfy the minimum degree requirements in Sociology (1) for the degree of Bachlor 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, Labor and Labor Problems; Education 430, Sociological Principles of Education; Psychology 434, Social Psychology; 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.

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.

DEPARTMENT OF PHYSICAL EDUCATION

PROFESSORS CAWTHON, SMITH. ASSOCIATE PROFESSOR LANGFORD. ASSISTANT PROFESSORS HUFFMAN, HUFFMAN. INSTRUCTOR BASKIN.

Physical Education for both men and women is provided. The aim of the work is to maintain general health and to provide activities that are physically worthwhile.

***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 received for only one such similar course. Such courses in this department are: Sociology 333 and 323.

Every student is given a medical examination at the beginning of each year. Where 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. 230 or P. E. 3310.

Every freshman and sophomore student in the College is required to enroll for Physical Education unless excused upon the 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.

Coach P. W. Cawthon is Head of the Department of Physical Education for Men, and Associate Professor Langford is Head of the Department of Physical Education for Women. In both of these departments, in addition to the regularly 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. Sections 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 classes.

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.

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). 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.

2113. Individual Gymnastics. Cr. 1 (0-2). I, II. For students not physically able to enroll in regular physical education work.

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. I and II. 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.

The following courses in this department may be taken for graduate credit if an additional problem is done in each course: 434, 435, 436.

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 curriculum for the degree of Bachelor of Science, Physics Major, may be found at the beginning of **Arts and Sciences.**

The Department of Physics has for its exclusive use a lecture room with an apparatus room adjoining; three laboratories devoted wholly to the work in general physics; a light laboratory; an electrical measurements laboratory; a high-fequency laboratory; a photographic dark room; a shop, well equipped for making and repairing apparatus. The various laboratories and the apparatus room are well equipped with apparatus of modern design and construction.

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 class room demonstration. Greater emphasis placed on the descriptive presentation of the subject matter than on the solution of problems. Primarily for Arts and Sciences, Agriculture, Home Economics, and Pre-Medical students.

137. Physical Basis of Speech and Music. Cr. 3. (2-3). I. The principles of sound with applications to speech and music. The method of presentation to be mainly by demonstration and lectures. For students majoring in Music and Speech.

211-2. Problems in General Physics. Cr. 1 (1-0). I and II. Prerequisite: Phys. 131-2 or registration therein. A course given especially for those who require a training in problem solution more complete than can be given in general physics. Required of all Pre-medical students, and should be taken concurrently with 131-2.

215-6. Physical Measurements. Cr. 1. (0-3). I and II. Must be taken concurrently with 235-6 (215 with 235; 216 with 236). The object of this course is for the student 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. To be given 1941-2.

231-2. Sophomore Physics. Cr. 3 (2-3). I and II. Prerequisite: Phys. 133-4 or its equivalent, freshman mathematics, and concurrent registration in calculus. The general field of physics; more advanced than the first year courses. Emphasis on the solving of problems. Required of all Engineering students and of all others who make Physics their major. Not given after 1940-41.

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 (3-0). I and II. Prerequisites: One year of high school or elementary college physics and concurrent enrollment in calculus. Mechanics, Heat, Electricity and Magnetism, Sound and Light. Three hours lectures, demonstrations, and recitations. Special emphasis is placed on the engineering aspects and applications of the subject matter. Required of sophomore engineering students. To be given 1941-2. See Physics 215-6.

331. Light. Cr. 3 (2-3). I. Prerequisite: Phys. 131-2 and calculus. The fun-

damentals 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: Phys. 131-2 and calculus. Thermometry; expansion; calorimetry; transference of heat; heat of chemical actions; change of state; heat properties of gasses 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: Phys. 131-2 and integral calculus. A mathematical treatment of the theory and applications of electricity and magnetism. An introduction to electron theory, power transmission, communication, conduction of electricity through gasses, radioactivity, thermionics, photoelectricity, and x-rays.

423-4. **Electrical Measurements.** Cr. 2 (0-6). I and II. Prerequisite: Phys. 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 photo electricity. Calibration of electrical meters. Required of Electrical Engineering students.

435-6. **Introduction to Modern Physics.** Cr. 3. I and II. Prerequisite: Phys. 231-2 and calculus. Modern conceptions of the nature and property of matter; the corpusclar nature of radiant energy; x-rays; spectra; the periodic system, molecular structure; radioactivity; astrophysics.

511-2. **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. Given in alternate years; given in 1939-40.

513-4. **Physics Seminar.** Cr. 1. I and II. Prerequisite: Consent of the instructor. Similar to Phys. 511-2. 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. Given in alternate years; not given in 1939-40.

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: Phys. 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 6 hours. I, II, and S. Credit given on the basis of amount and quality of work done in preparation of thesis. Prerequisite: Graduate standing and approval of head of department.

The following courses may be taken for graduate credit: 331, 332, 333-4, 423-4, 435-6 if an additional problem is carried; also 511-2, 513-4, 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 thoughts to a group, of speaking effectively in public meetings, of thinking on one's feet, and of speaking ex-

temporaneously are necessary parts 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 following are courses for a major in Speech:* Sem. Hrs.

Speech 131-2. Fundamentals of Speech	6
Speech 231. Technique of Dramatic Art	3
Speech 232. Rehearsal and Dramatization	3
Speech 233. Voice and Diction	3
Speech 235-6. Argumentation and Debate	6
Speech 311. Parliamentary Law	1
Speech 333-4. Stagecraft	6
Speech 421. Problems in Speech Training	2
Speech 422. Technique of Interpretation	2
Speech 423. Advanced Stage Directing	2
Speech 431. Advanced Public Speaking	3
Speech 432-3. Phonetics and Speech Correction	6

General Requirements:

English	18
Psychology	3
Sociology 333 and Philosophy 431	6
History and Government	12
**Science: Zoology 235-6; Geology 133 or Geography 131; Physics 137	12
Foreign Language	12
***Mathematics	6
Two years required physical education	4
Orientation	1 or 2
Electives to complete degree requirements	

The equipment for the department includes a stage and properties for the actual practice of theory. Here various speaking situations are created in order 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 the making of marionettes. A radio with local broadcasting unit is used for 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.

*In some instances certain other speech courses may be substituted for those listed as required courses. See Head of Department.

**If two or more units of laboratory science were taken in high school all majors must take Zoology 235-6. If a student has had one year of high school physics with laboratory that will meet the physics requirement.

***See the requirements for the Bachelor of Arts degree.

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 on 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 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. Both semesters must be completed before credit for graduation will be given. 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. 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. Prerequisite: 3 hours in Speech, or permission of instructor.

324. Radio Speaking. Cr. 2. II. A continuation 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. Permission of the instructor is required.

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. Formerly 333 with additional material. Prerequisite: Speech 231-2. Stagecraft: design and construction of stage models and sets. The second semester used for the construction of 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 every day life. Emphasis on conference room and project speaking. For students of Technical Divisions.

421. Problems in Speech Training. Cr. 2. II. Prerequisite: 20 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 on 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.

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. Offered for graduate credit.

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 if an additional problem is taken in each course.

BIBLICAL HISTORY AND LITERATURE

DR. FRY
MR. WEST

Through the interest and cooperation of the Baptist General Convention of Texas and the Disciples of Christ of Texas 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 the 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 Apocryha 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, interpretations, and laws governing Hebrew Poetry.

431. The Prophets. Cr. 3. II. Certain of the prophetical 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 remedial work. The clinic is open to anyone in West Texas with any speech difficulty.

DIVISION OF MILITARY SCIENCE AND TACTICS

ENGINEERING UNIT

PROFESSOR PETTIT, CAPTAIN, CORPS OF ENGINEERS. ASSISTANT PROFESSOR SKIDMORE, LIEUTENANT, CORPS OF ENGINEERS. ASSISTANT INSTRUCTORS RICHARDS (Staff Sergeant), DAY (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.

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 Engineer Unit is further limited to those students enrolled in approved courses in Engineering.

The student while in the basic course will be furnished the major portion of the prescribed uniform by the Government.

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 seventy cents 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.

111-2. First Year Basic. Cr. 1. (1-2). I and II. Prerequisite: Eligibility to membership.

(a) Theoretical: National Defense Act and R. O. T. C., military history and policy, organization of the army, organization and duties of engineers, map reading, military obligations of citizenship, military discipline and customs of the service, infantry drill, sanitation and first aid.

(b) Practical: Military Discipline and Customs of the Service, infantry drill, first aid, map reading, rifle marksmanship.

211-2. Second Year Basic. Cr. 1. (1-2). I and II. Prerequisite: M. S. 111-2.

(a) Theoretical: Drill and Command, aerial photograph reading, map reading, sketching, map making, rigging, weapons and musketry, scouting and patrolling, interior guard duty.

(b) Practical: Drill and Command, sketching, map making, rigging, weapons and musketry, scouting and patrolling, interior guard duty.

331-2. First Year Advanced. Cr. 3. (3-2). I and II. Prerequisite: M. S. 211-2.

(a) Theoretical: Drill and Command, military roads, military bridging (fixed and floating), military explosives and demolitions, field fortifications, combat training, mobilization training.

(b) Practical: Drill and Command, military roads, military bridges, military explosives and demolitions, field fortifications.

Summer Camp: Six weeks in camp at Fort Logan, Colorado. 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, military law and courts martial, military bridges, infantry and engineer combat training, principles of organization of ground, company administration, supply.

(b) Practical: Drill and Command, military bridges, infantry and engineer combat training, principles of organization of 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 Graduate Division 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 Graduate Division 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 Graduate Division 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 Graduate Division 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 an 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:

1. Graduate Courses: These courses are open only to graduate students and cannot be used in the fulfillment of a bachelor's degree.

2. 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 Graduate Committee 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 under "Residence Requirements" 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 Graduate Committee 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 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 Graduate Committee 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 Graduate Division. 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 Graduate Division 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 Graduate Division. 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 Graduate Division 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 Graduate Division.

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 Graduate Committee and such members of the staff as may be appointed for that purpose by this Committee. Such oral examination 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 Graduate Division.

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 Graduate Division. The above regulation applies to students in extension courses.

No courses 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 a 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 Graduate Division, acceptance as a candidate and in 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 Graduate Committee and the faculty of the College.

A written application stating the degree desired must be submitted to the Graduate Committee 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 Graduate Committee the professional work must have been approved by the head of that department concerned and by the Dean of the Engineering Division.

Before submission to the Graduate Committee, 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.

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 regular scheduled classes. Correspondence and extension class work offered by the Division of Extension have been approved by the Association of Texas Colleges, and 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, and (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 advanced 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. At least one lesson each week in a correspondence course should be sent to the instructor. The course should be completed within three to four and one-half months. A course of two semester hours may not be completed in less than thirty days, nor of three semester hours in less than forty-five days, without special permission. A course must be begun within three months or become inactive. A fee of $1.00 may be charged to restore it to the active list. 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 as to 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. But, 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 depositing $5 to cover loss or damages of books and service charge. The deposit, less a service charge of $1, fines, if any, and cost of mailing the books, will be refunded upon the return of the books. The library deposit should be sent direct 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.
336. Building the Bible and Between the Testaments
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.
435. Problems in Finance.
436. Cost Accounting.

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.
433. International Economic Problems and Foreign Trade.

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 Method.**
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. School Publicity.*
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.**

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.

336. Augustan Age.
337. Grammar for Speech (Advanced Grammar).
338. American Poetry: Bradstreet to Whitman.

*Administration.
**Methods.

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, Shelly, Keats, Byron).
438. Nineteenth Century English Prose (McCauley, 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, Strachy, 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.

Government.

131. American Government, National.
132. American Government, State.
231. Introduction to Political Science.
232. Modern Governments.
320. American Government, National and State (Texas).
331. Local Government.
334. American Political Parties, Party Analysis.
431-2. American Constitutional Law.
435-6. International Law.

History.

131-2. History of Civilization.
133-4. Economic and Political History of England.
231-2. Economic and Political History of United States.
330. Teaching of History in High School.

**Methods.

430. English Colonial America.
436-7. History of the United States, 1789-1841.
438-9. History of Texas.
4311-12. Civil War and Reconstruction.

Home Economics.

131. Applied Arts: Design (Elective).
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.
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. Cicero's De Senectute and De Amicitia, The Phormio of Terence and The Odes of Horace.

Mathematics.

121-2. Algebra (Engineering).
130. Algebra. (Arts and Sciences).
131. Trigonometry.
132. Analytics.
135. Mathematics for Home Economics Students.
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.
239. A Survey Course in Elementary Mathematics.
251. Calculus (Engineering).
321. Elementary Differential Equations (Engineering).
332. Methods of Teaching Algebra and Geometry.
333-4. Advanced Algebra.
335-6. Differential and Integral Calculus.
338. Mathematics of Insurance.
339. Business Statistics.
431. Advanced Calculus.
433. Theory of Equations.
437. Higher Geometry (for Math. 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.

*By correspondence and conference.

338. Elements of Ethics.
431. Aesthetics.
436. Philosophy of Religion.

Physical Education.

230. Principles of Health Education.
337. History of Physical Education.
338-9. Technique of Sports.
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 (or 323.)
431. Marriage.

Spanish.

131-2. A Beginning Course in Spanish.
231-2. Grammar, Reading, Composition.
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.*

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, ½ unit, $10.00.
Agriculture, ½ unit, $10; 1 unit, $15.00.
Bookkeeping, ½ unit, $10; 1 unit, $15.00.
Commercial Geography, ½ unit, $10.00.
Commercial Law, ½ unit, $10.00.
Contemporary Social and Economic Problems, ½ unit, $10.00.
Economics, ½ unit, $10.00.
Junior Business Training, 1 unit, $15.00.
Occupations, ½unit, $10.00.
Retail Selling, ½ unit, $10.00.
Salesmanship, ½ unit, $10.00.
Sociology, ½ unit, $10.00.
Typewriting, ½ unit, $10.00.

Bible.

Old Testament, ½ unit, $10.00.
New Testament, ½ unit, $10.00.
Old and New Testament, 1 unit, $15.00.

English.

Composition and Rhetoric, ½ unit, $10.00; 1 unit, $15.00; 2 units, $30.00.
American Literature and Composition, ½ unit, $10.00; 1 unit, $15.00.
English Literature and Composition, ½ unit, $10.00; 1 unit, $15.00.
Journalism: Newspaper Feature Writing, 1 unit, $15.00.

Foreign Language.

Latin I, ½ unit, $10.00; 1 unit, $15.00.
Latin II, ½ unit, $10.00; 1 unit, $15.00.
Spanish I, ½ unit, $10.00. 1 unit, $15.00.
Spanish II, ½ unit, $10.00; 1 unit, $15.00

History and Civics.

Ancient History, 1 unit, $15.00.
American History, ½ unit, $10.00; 1 unit, $15.00.
Civics, ½ unit, $10.00; 1 unit, $15.00.

*By correspondence and conference.

English History, ½ unit, $10.00; 1 unit, $15.00.
Latin-American History, ½ unit, $10.00.
Modern History, 1 unit, $15.00.
Texas History, ½ unit, $10.00.
World History, 1 unit, $15.00.

Mathematics.

Advanced Arithmetic, ½ unit, $10.00.
Commercial Arithmetic, ½ unit, $10.00.
Algebra I, Beginner's Course, ½ unit, $10.00; 1 unit, $15.00.
Algebra II, Algebra Continued, ½ unit; $10.00; 1 unit, $15.00.
Plane Geometry, ½ unit, $10.00; 1 unit, $15.00.
Solid Geometry, ½ unit, $10.00.
Trigonometry, ½ 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 COLLEGE 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 under-graduate courses are available. Under-graduate 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. Freshmen courses in English, foreign languages, government, history, and mathematics will be offered, on the college level.

Lesson plans will be prepared by the college instructors, who will also grade and criticise the work of the students. The lessons will combine individual and group work under the supervision of the local supervisor. Eighteen group meetings will be required for a three-semester-hour course.

The work of the students will also be checked by frequent quizzes and a final examination. The examination will be directed by an official examiner as in the case of individual correspondence examinations. The credits earned will be correspondence credits. The fees will be the same as in individual correspondence work, namely, $16 for a three-semester-hour course for enrollment and examination.

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.

SUMMER SESSION

J. M. GORDON, DIRECTOR

The summer session of Texas Technological College is an integral part of the college year. All courses offered in the summer have the same credit as in other semesters. Summer session attendance has steadily grown from 336 the first year to 1839 in 1938. The entire College plant is available for use, and many of the regular faculty, assisted by various specialists of recognized standing, offer both regular and special courses.

The summer school is designed to fill a number of needs. A student may be in arrears in certain subjects and find it necessary to attend summer school so as to complete these and thus save 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 thus 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.

For the accommodation of those who cannot devote the entire summer to study but who desire college credit, the summer session is divided into two terms. Students may enter for either or for both terms.

Certain courses, such as the laboratory sciences, mathematics, and observation and practice teaching, are arranged so that persons desiring to fulfill degree requirements may complete for credit more than the usual amount of work in these subjects in any one term. The work is so arranged that by concentrating on a given subject a student may in this subject complete a year's work.

Courses are offered both terms by which a teacher's certificate of any class may be extended for one year, provided the certificates expire that year and after the summer session opens.

At the close of the second term of the summer session, graduation exercises are held and degrees are conferred.

In general, classes in the Summer Session are scheduled in the morning periods in order to allow for study and recreation in the afternoons and evenings. The College considers recreation an essential part of the work of the Summer Session and sponsors a varied entertainment program for the students and faculty of the Summer School.

Of special interest to many students in the Summer School are the various field courses which are offered each summer. The Departments of Biology and Geology will give their regular field courses. The Department of History and Archaeology will sponsor a trip to New Mexico; the Department of Speech, a non-credit trip to Washington, D. C., New York, and other places of interest. A travel trip to Europe is being planned for the second six weeks of the Summer School, for which credit will be allowed in the English Department.

THE 1940 SUMMER SESSION

The summer session of 1940 will begin June 6. The description of the courses offered as well as details concerning the staff will be published in the Summer Session number of the College Bulletin for February, 1940.

This bulletin may be obtained by writing to the Registrar of the College.

ENROLLMENT

REPORT OF ENROLLMENT FOR THE LONG SESSION, 1939-40

	Freshmen	Sophomores	Juniors	Seniors	Graduates	Total
Agriculture	207	131	79	130	24	571
Engineering	347	274	133	195	7	956
Home Economics	156	127	84	111	7	485
Arts & Sciences (By Majors:)						
Bus. Admin.	320	194	112	116	10	752
Education	47	46	42	45	17	197
Sciences	140	87	59	65	15	366
General	361	211	158	150	39	919
	868	538	371	376	81	2234
Totals	1578	1070	667	812	119	4246

(Based on Classification at beginning of Spring Semester, 1940)

ENROLLMENT FOR THE SUMMER SESSION, 1939

	Freshmen	Sophomores	Juniors	Seniors	Graduates	Total
Agriculture	32	32	49	48	23	184
Engineering	41	47	48	45	3	184
Home Economics	17	29	81	65	29	221
Arts & Sciences (By Majors:)						
Bus. Admin.	24	39	54	54	24	195
Education	17	33	131	133	176	490
Sciences	20	23	39	35	23	140
General	56	62	108	135	157	518
	117	157	332	357	380	1343
Totals	207	265	510	515	435	1932

EXTENSION

Enrollment in extension classes	311
Enrollment in correspondence courses	887
Total enrollment, June 1, 1939 to June 1, 1940	1198

ATTENDANCE 1925-1940

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		1198	

ATTENDANCE AT MEETINGS, CONFERENCES, AND SHORT COURSES SPONSORED BY THE DIVISIONS OF THE COLLEGE FOR THE YEAR 1939-40

SERVICES BY THE DIVISION OF AGRICULTURE, 1939-40

Attendance at Meetings and Conferences Sponsored by Departments:

Agricultural Economics	150
Agricultural Education	1550
Animal Husbandry	1898
Dairy Manufactures	1056
Plant Industry	1487

SERVICES BY THE DIVISION OF ENGINEERING, 1939-40

Attendance at Meetings, Conferences, and Short Courses Sponsored by the Division of Engineering:

Course for Public Health Workers and Sanitation Officers	17
Cotton Classing Schools, Summer 1939	144
Welding Conference, 1940	372
Southwest Group of Student Branches, A.S.M.E.	135
Student Branches of Southwest District, A.I.E.E.	169
Attendance at Engineers' Show	8197

SERVICES BY THE DIVISION OF HOME ECONOMICS, 1939-40

Attendance at Meetings, Conferences, and Short Courses Sponsored by Departments:

Child Development	75
General Home Economics	150
Home Economics Education	208
Attendance at Annual Home Economics Open House	4000

SERVICES BY THE DIVISION OF ARTS AND SCIENCES, 1939-40

Attendance at Meetings and Conferences Sponsored by Departments:

Education (Including Interscholastic League)	3300
Foreign Languages	200
Journalism	269
Music	25
Physical Education for Women	250
Speech	175

DEGREES CONFERRED 1927-1939

Division of Agriculture	
Bachelor of Science	356
Master of Science	14
Division of Engineering	
Bachelor of Architecture	9
Bachelor of Arts	17
Bachelor of Commercial Art	3
Bachelor of Science in Agricultural Engineering	22
Bachelor of Science in Chemical Engineering	44
Bachelor of Science in Civil Engineering	81
Bachelor of Science in Electrical Engineering	96
Bachelor of Science in Geological Engineering	20
Bachelor of Science in Industrial Engineering	3
Bachelor of Science in Mechanical Engineering	81
Bachelor of Science in Petroleum Engineering	9
Bachelor of Science in Textile Engineering	34
Bachelor of Science in Textiles	19
Master of Science	6
Division of Home Economics	
Bachelor of Science	336
Master of Science	2
Division of Arts and Sciences	
Bachelor of Arts (Major: Education)	352
Bachelor of Arts (Major: Sciences)	398
Bachelor of Arts (Major: Social Sciences)	405
Bachelor of Arts (Major: Languages and Music)	602
Bachelor of Business Administration	307
Bachelor of Science	54
Bachelor of Science in Education	302
Master of Arts	334
Master of Business Administration	2
Master of Education	9
Master of Science	20
Doctor of Laws	1
Doctor of Science	1
Total	3939

SCHOLARSHIPS AND PRIZES

The following scholarships and prizes were awarded for the year 1938-39:

Standefer-Canon Award to the football letterman making the highest grades for the year, awarded to Lewis Jones of Cleburne, 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 all her work for the year, awarded to Jean Spencer of Ralls, Texas.

Gargoyle Club Prize—this year the book, "The New Standard Encyclopedia of Art," to the freshman student doing the best work either in Architecture, Architectural Engineering, or Commercial Art, awarded to Darlene Abel of Lubbock, 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, "Early American Inns and Taverns by Elsie Lathrop, given to Herbert Brasher of Lubbock, Texas, a student in Architectural Engineering; the book, "The Graphic Arts" by Warren Cox, given to Donald Lee Benson of Lubbock, Texas, a student in Commercial Art.

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, awarded to L. Carroll Claitor of Petersburg, Texas.

American Society of Mechanical Engineers Award—a book, "The Life of Henry Lawrence Gantt", 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 Henry Hitt Meredith of Cleburne, Texas.

National Association of Cotton Manufacturers Award for the highest ranking senior student in Textile Engineering, awarded to Opal Hill of Post, Texas.

Avalanche-Journal cash award of $50 for the best work in reporting during the fall semester, awarded to T. J. Harris of Lubbock, Texas.

Wilbur C. Hawk Memorial Scholarship of $50 cash, given by the Amarillo News Globe, to the student doing the best work in reporting for the spring semester, awarded to Gordon Hanna of Fort Worth, 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 1938-39, awarded to Eugene Rainwater of Vernon, 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 to Cullen Tibbets of Plainview, 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 Robert L. Jackson of Lubbock, Texas.

Debate Medals—Outstanding work was done by Waggoner Carr and Warlick Carr of Lubbock in their third year of inter-collegiate debate by winning the men's division of the tournament sponsored by the Southern Association of Teachers of Speech, Baton Rouge, Louisiana, April, 1939.

HONORS 1938-39

Highest Senior for the entire College: Margaret Ruth Studhalter, Lubbock, Texas, Division of Arts and Sciences. Grade point average: 2.906.

Highest Senior in the Agriculture Division: Earl Robert Glover, Raymondville, Texas; and John Ellis Moody, Becton, Texas, tied. Grade point average of each: 2.35.

Highest Senior in the Engineering Division: Clinton S. Walker, Lubbock, Texas. Grade point average: 2.72.

Highest Senior in the Home Economics Division: Margaret Hemby, Sweetwater, Texas. Grade point average: 2.70.

Highest Senior in the Arts and Sciences Division: Margaret Ruth Studhalter, Lubbock, Texas. Grade point average: 2.906.

DEGREES CONFERRED 1938-39

May 29, 1939

DIVISION OF AGRICULTURE

Degree of Bachelor of Science in Agriculture

	Major	
Lewis Dale Ackers	Animal Husbandry	Abilene
James Harvey Alexander	Dairy Manufactures	Breckenridge
Vestel Camp Askew	Animal Husbandry	Del Rio
Gene V. Barnett	Agronomy	Melvin
John Henry Baumgardner	Animal Husbandry	Wellington
Arnold D. Black	Agricultural Education	Hillsboro, N. M.
Melvin Douglas Boyd	Animal Husbandry	Mertzon
Robert F. Cain	Horticulture	Plainview
Daniel E. Carpenter	Horticulture	Roswell, N. M.
Emmitt H. Cavin	Agricutural Education	Eden
Charles Russel Cook	Agronomy	Littlefield
Frank Lloyd Duncan	Agronomy	Lubbock
Hiram D. Farrar	Agronomy and Farm Machinery	Lubbock
Herbert Wardlaw Fields	Animal Husbandry	Sonora
Samuel Thel Garrison	Agronomy	Pecan Gap
Charles H. Gillham	Dairy Manufactures	Hughes Springs
Earl Robert Glover	Agricultural Education	Raymondville
J. Logan Green	Agronomy	Lubbock
Omar H. Herring	Agricultural Education	Seagraves
Charles R. Hickman	Animal Husbandry	Coleman
Calvin D. Holcomb	Animal Husbandry	Plainview
Herbert C. Hoover	Animal Husbandry	Post
William Henry Houston	Animal Husbandry	Stanton
James W. Huffman	Dairy Manufactures	Grapevine
Howard Hughes	Agronomy	Lubbock
Paul Eugene Johnson	Dairy Manufactures	Lubbock
Silas Jack Jones	Horticulture	Newcastle
Archibald Green Lamb	Dairy Manufactures	Fort Worth
Eldon L. Lawrence	Agricultural Education	Peacock
Harold Maurer Lillard	Agronomy	Friona
Dayton Crook McWhorter	Dairy Manufactures	Wolfforth
Walter Varner McWilliams	Agricultural Administration	Whiteflat
Otis Olin Maner	Agronomy	Hillsboro
Robert O. Marshall	Agricultural Education	Ft. Sumner, N. M.
Leo Meier	Agricultural Education	Follett
John Ellis Moody	Agronomy	Becton
Richard S. Moseley	Animal Husbandry	Rochelle
Thomas R. Neely	Agricultural Education	Sayre, Okla.
Alvis Berton Phillips	Agronomy	Lubbock
Burnett Phillips	Animal Husbandry	Honey Grove
Davney D. Rogers	Farm Management	Amarillo
Martin Van Scheid	Dairy Manufactures	Whitesboro
Loyce Dean Simpson	Agronomy	Floydada
Charles Orvel Spence	Agronomy	Floydada
Zell Terry	Horticulture	White Deer
Billy Mack Waddle	Agronomy	Greenville
Curtis M. Wheeler	Agricultural Education	Lorenzo
Charles White	Horticulture	Amherst
Oscar Earl Woodson	Dairy Manufactures	Lubbock
William Lee Young	Agricultural Education	Taylor

DIVISION OF ENGINEERING

Degree of Bachelor of Science in Architectural Engineering

Herbert Brasher	Hobbs, N. M.

Degree of Bachelor of Architecture

Ross Wayne Dowdy	Hart

Degree of Bachelor of Arts (Major: Commercial Art)

Donald Lee Benson	Lubbock
Dale Ellis Buckner	Lubbock
Mary Clark	Happy
Natalie Cunningham Tandy	Houston
Mamie Frances Turner	Abilene

Degree of Bachelor of Science in Chemical Engineering

Charles Ovid Baker	Garland
Clyde Benn	Abernathy
Monroe Buchanan	Spearman
King Irwin Glass	Sweetwater
Paul N. Kuehler	Groom
Edward T. Leidigh	Lubbock
James Barron Litton	Lubbock

John Thomas Merritt	Colorado City
Edward Gustaff Tonn, Jr.	Lubbock
Wayne Absalom Vaughn	Matador

Degree of Bachelor of Science in Civil Engineering

William L. Cobb	Lubbock
William Terrell Savage, Jr.	Lubbock
Kenneth William Sherer	Amarillo
James Newton Sligar, Jr.	Fort Worth
Wendell Burl Sparkman	Baird
George W. Thompson	Crowell

Degree of Bachelor of Science in Electrical Engineering

John R. Ragland	Paducah
Clinton Samuel Walker	Lubbock

Degree of Bachelor of Science in Industrial Engineering

Ray Ruskin Eldridge	Pampa

Degree of Bachelor of Science in Mechanical Engineering

Thomas Copeland, Jr.	Dallas
Berton Doucette	Pampa
James Thomas Forbes	Lubbock
Berry Orr Jacobson	Hereford
James Anthony Kelley	Hobbs, N. M.
Robert Louis Mason	Post
Henry Hitt Meredith	Cleburne
Joel Clyde Pierce	Childress

Degree of Bachelor of Science in Mechanical Engineering
Administrative Option

Orval L. Lewis	Gruver

Degree of Bachelor of Science in Petroleum Engineering
Geology Option

Birt Ralston Brumby	Houston
Ewing Long	Richardson
Edward L. Reed, Jr.	Lubbock
Robert Earl Wulfjen	Colorado City

Degree of Bachelor of Science in Petroleum Engineering
Geophysics Option

Dosh T. McCreary	Santa Anna

Degree of Bachelor of Science in Textiles
Chemistry and Dyeing Option

Arthur James Foster	Stratford
Millard McCabe Hall	Stanton

Degree of Bachelor of Science in Textiles
Weaving and Design Option

Janie Opal Hill	Post

DIVISION OF HOME ECONOMICS

Degree of Bachelor of Science in Home Economics

	Major	
Anice Armstrong	Home Economics Education	Idalou
Edna Fay Beaty	Home Economics Education	Lubbock
Doris Louise Benge	Foods and Nutrition	Borger
Margarette Ann Benn	General Home Economics	Abernathy
Ethel Mae Snelson Cain	Foods and Nutrition	Plainview
Myrlene Cannon	Home Economics Education	Idalou
Edwinna Cearley	Home Economics Education	Post
Willa Oleta Claiborn	Home Economics Education	Iraan
Para Cobb	Home Economics Education	Tulia
Wilma Jean Conrad	Home Economics Education	Okla. City, Okla.
Exie Pauline Creekmore	Home Economics Education	Wheeler
Annie Mae Curtis	Home Economics Education	Quail
Anna Kathryn Davies	Home Economics Education	Lubbock
Marian Draper	Foods and Nutrition	Tahoka
Olga Ann Elliott	Home Economics Education	Eunice, N. M.
Jean Fagala	Home Economics Education	Greenville
Jennie Faye Felton	Home Economics Education	Big Spring
Thelma Grace Fisher	Home Economics Education	Hobbs, N. M.
Ione Gill	Home Economics Education	Miami
Floy Glenn	Home Economics Education	Big Spring
Graham Elizabeth Hard	Home Economics Education	Shallowater
Margaret Hemby	Home Economics Education	Sweetwater
Dorothy Johnson	General Home Economics	Canadian
Frances Geraldine Lansford	Home Economics Education	Lubbock
Pauline McCarty	Home Economics Education	Munday

Delilah Isabelle Manire	Clothing and Textiles	Lubbock
Leota Rampy	Home Economics Education	Clarendon
Virginia Ruth Robertson	Home Economics Education	Muleshoe
Iris Thornton	General Home Economics	Farwell
Helen Louise Weatherford	Foods and Nutrition	Lubbock
Ollie Bonita Williamson	Home Economics Education	Lubbock

DIVISION OF ARTS AND SCIENCES

Degree of Bachelor of Arts

	Major	
Alvah Charlene Alston	English	Sweetwater
Jessie Lou Alston	English	Sweetwater
George N. Atkinson, Jr.	Zoology	Shamrock
Elizabeth McRea Bailey	English	Plainview
Jorga Mildred Barkham	History	Lubbock
Wilbourn Eugene Benton	Government	Cumby
Lois Bledsoe	English	Amarillo
Willie M. Boyd	History	Chriesman
William J. Bragg, Jr.	Chemistry	Memphis
Earl Burk Braly	Journalism	Eastland
Peggy Sue Carle	Government	Lubbock
Juanita Evelyne Carpenter	Education	McLean
Bon Hardy Chambers	History	Wichita Falls
Donald D. Chapman	Government	Thalia
Mary Beth Clark	Journalism	Van Horn
Charlotte Evelyn Cooper	Journalism	San Angelo
Nadene Adamson Cornelius	Education	Ralls
Madgie Irene Crane	Education	Lamesa
Dorothy May Daniels	English	Lubbock
Robert Lee Dennis	Chemistry	Moran
Kay Ann Donahue	English	Sweetwater
Lewis Harold Earl	Government	Peacock
Greta Marie Elmore	Spanish	Lubbock
Ruth Virginia Emmett	Education	Roswell, N. M.
Yone Stone Farris	History	Lubbock
Elsie Feigenspan	History	Roxana
Thelma Ford	Speech	Houston
Faye Randell Frachiseur	English	Brownwood
Anne Eron Gafford	Speech	Panhandle
Erma Lee Gaither	English	Hale Center
Earl Ross Gobble	Sociology	Carta Valley
Barbara Goodloe	English	Lubbock
Bernice Grundy	History	Quitaque
Barbara Hagan	English	San Angelo
Allene Hardin	Education	Lubbock
William Reeves Henly	Journalism	Greenville
William Moore Hicks	Chemistry	Colorado City
Eloise Hill	Journalism	Clarendon
Robert Allan Hill	Mathematics	Lubbock
Minnie Lee Hood	History	Colorado City
Joan Ladd Johnson	English	Eastland
Amye Pauline Jones	Education	Snyder
Merle Haynes Jones	Economics	Hobbs, N. M.
Lera Artie Jordon	English	Monahans
Xezvus Cockerham Keithley	English	Sudan
Stanley Francis Kenneth	Education	Dallas
Faith Knapp	French	Lubbock
Bette Crystelle Krauss	English	Comanche
Morris C. Laine	Journalism	Spur
Mary Josephine Leach	History	Cleburne
Betty Nona Lindsey	Spanish	Lubbock
Ernesteen Lockhart	Government	Lubbock
Buck Winfred McNeil	Government	Lubbock
Ruth Wheeler Marks	History	Ardmore, Okla.
Margaret Erna Marshall	English	Lubbock
Almon Maurice Martin	History	Lubbock
Lonnie Maxine Mullican	Speech	Crisp
John Henry Nail	Journalism	Petrolia
Jerome Maurice O'Rear	Zoology	Lorenzo
Argo Vestal Peek	Journalism	South Bend
Elsa Plants	Education	Seymour
Elton Emery Plowman	Education	Abilene
Ruth Poe	Education	Harrisonville, Mo.
William Gilbert Poole	Government	Dallas
Kent Presson	Government	Post
Ruth Woodrow Richeson	Chemistry	Lubbock
Dener Aubrey Roe	Mathematics	Crosbyton
James Givens Roney, Jr.	Philosophy	Dallas
Queenelle Sawyer	English	Brownfield
Edward Lee Scott	History	Granger
Dorothy Jeanne Sharpless	History	Lubbock

Clyde Wilton Simmons	Government	Ballinger
Eva May Slover	Spanish	Lamesa
Alva Elmo Smith	History	Morton
Elvira Evelyne Smith	Journalism	Amarillo
Pauline Stafford	English	Lubbock
Myrtle Virginia Stovall	English	Floydada
Margaret Ruth Studhalter	Spanish	Lubbock
Noel Edgar Thompson	Speech	Lubbock
Cullen Tibbets	Spanish	Plainview
Milton Duane Tilson	Chemistry	Plainview
John Lucien Upshaw	Speech	Amarillo
Georgia Janice Wadley	Speech	Pecos
Geraldine Watson	Journalism	Lubbock
Kathryn Virginia Weaver	English	Lubbock
Joseph Oscar Wells	English	Wellington
Mary Beth Whiteman	Speech	Brady
Lloyd Aubrey Wilson	Government	Quanah
Mancy Nelle Wingo	History	Plainview
Dolora Daphene Wren	English	Littlefield
Maurice Earl Wright	Government	Olton
Louise Anderson Wyatt	History	Tahoka
Myrtle Reed Young	Education	Ringgold
Wilma Draper Zachary	Spanish	Lubbock

Degree of Bachelor of Business Administration

John Camp Adams	Forsan
Walter Eugene Alderson	Lubbock
Joe Benge Alford	Lubbock
Mary Caroline Bauers	Lubbock
Mildred Bigler	Hale Center
William Douglas Blanton	Lubbock
Charles Beldon Bourland	Pampa
Billie M. Caldwell	Commerce
Robert Jerry Clements	Lubbock
Wynell Paul Cox	Lubbock
J. S. Craddock, Jr.	Robert Lee
William H. Crutcher	Loraine
Frederick Parks Davenport	Eastland
Robert Adkin Dempsey	Coleman
E. P. Driver	Big Spring
Norene Vernetta Elam	Wildorado
Jack Goodwin	Lubbock
Frank Guzick	Sherman
Edwin Hall	Lubbock
Melrose Jo Henderson	Eastland
Estelle Hodel	Lockney
Walter Warren Keahey	Roaring Springs
Ruth Naurine Kessle	Pampa
Lula Mae Landis	Clovis, N. M.
Edwin Dexter Libby	Lubbock
William Powell McCreary	Weatherford
William Warren Nobles	Hamlin
Kathlene Noell	Lubbock
Decimae Ramey	Dimmitt
Grace Kathrine Rea	Longview
Henry S. Royalty	Lubbock
George Harold Schultz	Goose Creek
Jack Moody Sharpe	Detroit
Virginia Lee Simmons	Abilene
Dorothy Lowayne Sneed	Lubbock
Ira Ernest Steele	Levelland
J. T. Strealy	Henrietta
James Hassler Strickland	Lubbock
Elmer Lois Tarbox	Higgins
William Lindsay Telford	Lubbock
Anne Lorene Thomas	Electra
Mary Florence Van Horne	Odessa
Dorothy Jean Ware	Lubbock
Marcella Marie Ware	Lubbock
Tina Mae Wright	Dimmitt

Degree of Bachelor of Science

	Major	
William Kyle Adams	Chemistry	Brownfield
Fletcher Manson Allen	Geology	Lubbock
David A. Banta	Geology	Bellaire
Joe Richard Donaldson	Zoology	Lubbock
Frances Jane Giles	Mathematics	Amarillo
Helen Lee Hollingsworth	Botany	Childress
Harold Huffman	Geology	Meadow
James Estes Jones	Zoology	Wellington
Leonard Latch	Geology	Cisco

Dorthol Ernestine Quarles	Zoology	Amarillo
J. B. Ratliff	Geology	Garden City
Samuel John Roach	Geology	Lubbock
Wichita F. Sheldon	Geology	Electra
Ardell Nichols Taylor	Zoology	Chickasha, Okla.
John Gerald Thompson	Zoology	Lubbock
Larry Trenary	Chemistry	Pampa

Degree of Bachelor of Science in Education

Teaching Major

Alamae Clements Barrier	Primary Education	Lubbock
Madge Leoma Beason	Primary Education	Amherst
Lovie Viola Beavers	Physical Education	Hereford
Iris Christine Bergholm	Primary Education	Lubbock
Gloriadel Bowen	Physical Education	Sterling City
Andrew Harris Cheek, Jr.	Physical Education	Wink
Zeffie Mae Childress	History	Wellington
Billie Louise Crausbay	Primary Education	Lubbock
Waty Frances Douglas	Public School Music	Idalou
Wilmer Greene	History	Gainesville
Mary Keziah Gulledge	History	Lubbock
Sophie Alice Hardgrave	Physical Education	Lubbock
Mildred Juanita Haynes	Public School Music	Miami
Ruby Lucus Huff	Primary Education	Lubbock
Carl Otis Hyde	Band Music	Albany
Lou Ella McDowell Hyde	Elementary Education	Roswell, N. M.
Lillian Florine Kelley	Physical Education	Idalou
Jeannette Kelley	Public School Music	Lubbock
Nard Albert Lair	Zoology	Lubbock
Lawrence Boyce McAnally	Government	Stephenville
Johnie Pearl Mantooth	Primary Education	Lubbock
Ashford Benjamin Murphy	English	Memphis
George Rex Philbrick	History	Dallas
Sibyl Prater	History	Tahoka
Vondelle Prideaux	English	Lubbock
May Della Ransdell	Government	Parks
Annie Norman Rowland	Mathematics	Lubbock
Lola Wheeler Smith	History	Cotton Center
Ruth Smith	Elementary Education	Baileyboro
Eva Lea Swope	Elementary Education	Colorado City
Gracie Fern Teague	Primary Education	Stanton
Edna Florene Thomas	Elementary Education	Ralls
Mary Ann Ware	Elementary Education	Lubbock
Erma Joy Weaver	Elementary Education	Jonesboro
Martha Virginia Westbrook	Physical Education	Cleburne
Faye Smith Woods	Primary Education	Lubbock

DIVISION OF GRADUATE STUDIES

Degree of Master of Arts

Carl Mathis Bailey, Estelline, B. A., Texas Technological College, 1935, Education
Thesis: A Guidance Program for Lubbock Junior High School

Katie Bell Crump, Lubbock, B. A., College of Industrial Arts, 1922, Education
Thesis: Experimental Investigations of Procedures in Beginning Reading

Clifford LeRoy Gibbs, Wilson, Okla., B. S., Texas Technological College, 1937, History
Thesis: Establishment of Texas Technological College

Kline Allen Nall, Lubbock, B. A., Texas Technological College, 1937, English
Thesis: A Vocabulary Study of the Douay and King James Versions of the Bible

Mary Elmore Rankin, Muleshoe, B. A., Texas Technological College, 1930, Education
Thesis: The Historical Development of Elementary Schools in Bailey County, Texas

William Francis Tanner, Lubbock, B. A., Baylor University, 1937, Geology
Thesis: Wind Sedimentation on a Part of the South Plains

Zelda Mae Weakley, Post, B. A., Simmons College, 1922, English
Thesis: Shelley's Ideas of Freedom

Rex Webster, Lubbock, B. A., Texas Technological College, 1938, Government
Thesis: Control of the Radio Industry in the United States

Russell Elwood Wimberley, Lubbock, B. A., Texas Technological College, 1936, History
Thesis: The Life and Work of Dr. M. C. Overton, Pioneer Physician of the South Plains

Louise Wolffarth, Lubbock, B. A., Texas Technological College, 1932, History
Thesis: The Transportation Problem of Corpus Christi, Texas

Degree of Master of Science

Martha Enna Cox, Lubbock, B. S., Texas Technological College, 1937, Botany
Thesis: Origin and Development of the Gemma and Scale in "Riella americana"

Donald Thomas Gibson, Lubbock, B. S., Texas Technological College, 1938, Geology
Thesis: Sedimentation of the Santa Rosa Formation in Guadalupe County, New Mexico

Ruford Francisco Madera, Van Horn, B. A., University of New Mexico, 1935, Geology
Thesis: Subsurface Geology of the Southwest Area of Hockley County, Texas

William Edward Richards, Dalhart, B. S., Texas Technological College, 1938, Chemical Engineering
Thesis: Analysis of Cotton Burrs

Johnsie Jo Steele, Mexia, B. S., Texas Technological College, 1938, Mathematics
Thesis: Symmetric Group on Five Symbols

Spencer Preston Whippo, Perryton, B. S. in Agriculture, Texas Technological College, 1938, Agronomy
Thesis: Soil Fertility Studies on Amarillo Fine Sandy Loam

Degree of Master of Business Administration

Paul Timothy Coe, Lubbock, B. B. A., Texas Technological, 1938, Business Administration
Thesis: An Analysis of Accounting Procedure of Band Instrument Companies

Degree of Master of Education

Mosey Walker McConnell, Lubbock, B. S., N. T. S. T. C., 1929, Education
Thesis: History and Development of Education in Crosby County, Texas

DEGREES CONFERRED 1938-39

August 25, 1939

DIVISION OF AGRICULTURE

Degree of Bachelor of Science in Agriculture

	Major	
Joe William Christian	Animal Husbandry	Seagraves
Lewis Dunlap	Animal Husbandry	Spur
Richard Clayburn Harrell	Dairy Manufactures	Spur
Winston W. McInnis	Animal Husbandry	Menard
Johnny C. Murphy	Farm Management	Fort Worth
Harvy E. Owen	Agricultural Education	Jacksboro
Cecil Marion Pierce	Agricultural Administration	Jonesboro
Herman Alvis Reeves	Horticulture	Munday
Orris Seale	Horticulture	Lubbock
Jack A. Spence	Agricultural Education	Lockney
Joe Tom Weddle	Agronomy	Bonham

DIVISION OF ENGINEERING

Degree of Bachelor of Commercial Art

Donald Lee Benson — Lubbock

Degree of Bachelor of Arts (Major: Commercial Art)

Julia Elizabeth Austin — Lubbock

Degree of Bachelor of Science in Chemical Engineering

Frederick Karl Zapffe — Dallas

Degree of Bachelor of Science in Civil Engineering

Clytus Parris — Wilson
Augustus Franklin Reese, Jr. — Shallowater

Degree of Bachelor of Science in Civil Engineering
Municipal Engineering Option

Jack Quinlan — Lubbock
Joseph A. Stanley, Jr. — Brownwood

Degree of Bachelor of Science in Electrical Engineering

Leon G. Cox — Childress
James Samson — Lubbock
Charles Henry Thomas — Lubbock

Degree of Bachelor of Science in Mechanical Engineering

Milton Haws Butler — Oklahoma City, Okla.
Louis J. Powers, Jr. — Glendale, California

Degree of Bachelor of Science in Mechanical Engineering
Administrative Option

George Finley Winston — Cisco

Degree of Bachelor of Science in Petroleum Engineering
Geology Option

Lovell Parker Brown — Eastland
Van D. Dowda — Cisco
David Morgan Ferebee — Vernon

Degree of Bachelor of Science in Petroleum Engineering
Geophysics Option

Lynn Alton Smitherman — Athens

DIVISION OF HOME ECONOMICS

Degree of Bachelor of Science in Home Economics

	Major	
Charlotte Ballow	Home Economics Education	Levelland
Mary Margaret Carter	Foods and Nutrition	Lubbock
Mary Elizabeth Elliott	Home Economics Education	Anton
Vada May Frasier	General Home Economics	Ranger
Lorraine Gollihar	Foods and Nutrition	McAdoo
Jessie Lee Hensley	Home Economics Education	Lubbock
Juanita Hughes	Home Economics Education	Higgins
Pauline Alice McWilliams	Home Economics Education	McCamey
Mildred Lee Smith	General Home Economics	Ralls
Georgia Lee Soules	Home Economics Education	Groom
Addie Lee Terrell	Clothing and Textiles	Lubbock
Mildred Josephine Wagner	Home Economics Education	Amherst
Wynefred Warren	Foods and Nutrition	Lubbock
Laurel Earline Weddle	Home Economics Education	Bonham
Lois Valera Wren	Home Economics Education	Littlefield

DIVISION OF ARTS AND SCIENCES

Degree of Bachelor of Arts

	Major	
Lynn Bain	Mathematics	Plainview
Nola Mae Bennett	Education	Hobbs, New Mexico
Naomi Lucille Billings	Spanish	Fort Stockton
Sena Marie Brown	English	Lorenzo
Kyle Martin Buckner	History	Brownfield
Willis Weldon Burney	Government	Santa Anna
Ruby Burns	Mathematics	Morton
James Bunyon Cearley	Journalism	Levelland
Curtis A. Dickenson	Education	Levelland
Nell Pauline Duff	English	Weinert
Ruth Clements Dulin	Education	Colorado City
Ethy Lou Edwards	Education	Lubbock
George Smith Edwards	Spanish	Lubbock
Nina Short Gammill	English	Meadow
Mary Ruth Gibson	Education	Lubbock
Hallie Faye Harred	History	Normandy
Edgar Henry Heald	Journalism	Lubbock
Finis Leroy Heidel	Government	Lubbock
Margaret Marian Hix	English	Wellington
Connell Chilcoat Houston	English	Paducah
Cecile Horne	English	Lubbock
Lois Howell	English	Paducah
Wellborn Royston Hudson, Jr.	English	Austin
Willie Calloway Huffaker, Jr.	Government	Wilson
Minibel Johnson	History	Lubbock
Herbert Andrew Johnston	History	Hamlin
Lucile Donahoo Keen	Chemistry	Lubbock
John Robert Kilpatrick	Music	Cisco
Maynard Deveri Knight	Zoology	Lubbock
Elnorna Louise Leslie	Education	Grand Prairie
Harvey L. Lovell	Education	Dickens
Merle Scoggin Mathews	Education	Lubbock
Gladyce Maxwell	Sociology	Lamesa
Jessie Laverne Northam	English	Ropesville
Mary Nell Price	Economics	San Angelo
Glenna Fae Sadler	Journalism	Vigo Park
Genie Daniel Skeen	Education	Gail
Winnie Jane Sluder	English	Olton
James Alfred Smith	Zoology	Lamesa
Laurence Haggard Snively	Education	Colorado City
Vena Louise Snow	Education	Lubbock
Lois Mae Speer	Speech	Dickens
Robert Leighton St. Clair	Government	Seymour
Patsy Lou Thornberry	English	Wichita Falls
Catherine Alice Troxell	History	Decatur
Mary Lou Tucker	Education	Lubbock
Mable Shaffer Ware	English	Lubbock
Robert Williams	Education	Jayton

Degree of Bachelor of Business Administration

Neville James Baker	Borger
Edith Lucille Barnett	Higgins
Mary Esther Cummings	Byers
Summy Lea Eaton	Rule
Ralph Wilson Gossett	Post
James L. Greenfield	Shamrock
Billie Eileen Holland	Childress
Edwin L. Niell	Lubbock

Mary Perkins		Lubbock
William Schofield		Lubbock
James Russell Tarrance		Lubbock
Raymond Hascal Todd, Jr.		Slaton
William Edward Warenskjold, Jr.		Cleburne
Carl W. Wilson		Lubbock
Frank Poyntz Wilson, Jr.		Amarillo

Degree of Bachelor of Science

Major

Nugent Truitt Brasher	Geology	Iraan
Hardy Masters	Mathematics	Lubbock

Degree of Bachelor of Science in Education

Major

Fannie Mae Acker	Primary Education	Truscott
Eleanor Bailey	History	Lubbock
Nola Marie Batton	English	Comanche
Evelyn Hook Bramlett	Elementary Education	Stephenville
Bobbie Allie Lee Brown	History	Ropesville
Verlin Estelle Cooke	Elementary Education	San Angelo
Elma Tant Cummings	Economics and Business Administration	Ralls
Raymond Ancel Curfman	Physical Education	Electra
Carroll Raymond Dale	Social Science	Wink
Lyall Picket Davis	Primary Education	Post
Norman Spencer Davis	Mathematics	Wildorado
Charley Daviss	Primary Education	Lubbock
Dorothy Adell Fisher	Primary Education	Canadian
Sivolah Bass Fox	Primary Education	Tatum, N. M.
Ruth Hailey	Elementary Education	Red Springs
Aura Mae Grissom Hamilton	Elementary Education	Lubbock
Georgia Juanita Hauk	Primary Education	Levelland
John Paul Hill	English	Carey
Mattie Cora Hodge	Physical Education	Bellevue
Johnny Byron Howell	Economics	Post
Curtis A. Jarratt	Band	Lubbock
Ormonde Gerald Joiner	Band	Lubbock
Hazel Gibson Jones	Primary Education	Cleburne
Linnie Mae Keese	Elementary Education	Hurlwood
Lucille MarJeayne Keeton	Primary Education	Hillsboro
Aaron Loy Kerby	History	Hermleigh
Margaret Louise Kern	Public School Music	Nazareth
Lois Kirkpatrick	Elementary Education	Littlefield
Margaret Jane Knight	Primary Education	Seymour
Herbert Ernest Lindsey	Chemistry	Wellington
Ima Jewell Love	Primary Education	Anton
Minnie Lee Britton McCormick	History	Lubbock
Lula La Vola McCuistion	Primary Education	Stamford
Ruth Evelyn Mannan	Primary Education	Dallas
Katherine Manning	Primary Education	Idalou
Thomas Clifton Martin	Economics	Lamesa
Bertha Lorene Patrick	Primary Education	Memphis
Clifton Patterson	Biology	Spade
Olan L. Petty	History	Pearl
Travis Dickson Railsback	English	Knott
Ralph Hardesty Ranson	History	Lamesa
Ardel Wicker Reasoner	Elementary Education	Slaton
Rufus William Standefer, Jr.	History	Clifton
Erma Novalyn Stokes	Commercial Art	Lubbock
Byron Owen Terrell	History	Lubbock
Nina Campsey Thompson	Primary Education	Lubbock

DIVISION OF GRADUATE STUDIES

Degree of Master of Arts

Glenn Lee Allison, Clarendon, B. A., Texas Technological College, 1933, Education.
Thesis: A Statistical Analysis of the Psychological Test Scores of the 1938-39 Freshman Class of Texas Technological College.

Irene Lavada Armes, Slaton, A. B., Hardin-Simmons University, 1923, English.
Thesis: The Most Common Errors in Grammar and the Simplification of the Teaching of Grammar.

James Horace Bardwell, Goree, B. S., Sul Ross State Teahcers College, 1932, Education.
Thesis: A Study of the Laws Affording Tenure Protection to Teachers of the United States.

William Norman Bobbitt, Sudan, A. B., Baylor University, 1934, Education.
Thesis: Home Room in the Secondary School.

Isaac Mastin Chism, Albany, B. A., Hardin-Simmons University, 1932, Education.
Thesis: A Plan for a Character Education Program in Albany High School.

Walter C. Cunningham, Benjamin, B. A., Texas Technological College, 1935, Education.
Thesis: A Plan for Regrouping of Schools in Knox County, Texas.

Ellie Cuttler, Direct, B. A., East Texas State Teachers College, 1934, English.
Thesis: The Gullah Dialect as Used in Contemporary Fiction and Folk Tales.

George Baldwin Gray, Morton, B. A., Texas Technological College, 1938, Mathematics.
Thesis: The Use of the Fourier Series with Oblique Axes.

Joseph Reagan Griggs, Wichita Falls, B. A., Texas Technological College, 1932, Education.
Thesis: A Comparative Study of Lubbock County Rural Schools for 1934-35 and 1937-1938.

Leslie M. Hays, Indian Creek, B. A., Howard Payne College, 1929, Education.
Thesis: History of the Public Schools of Brown County.

Johnnie Morgan Hensley, Snyder, B. A., Hardin-Simmons University, 1934, Education.
Thesis: The Organization and Administration of High School Bands in Texas.

Jewell W. Hill, Amarillo, A. B., Montezuma College, 1925, Education.
Thesis: Retardation and Acceleration in the Amarillo Elementary Schools.

Clyde Wolfe James, Tulia, B. A., Texas Technological College, 1933, Economics.
Thesis: Relief and Employment in Swisher County, Texas.

Margaret Lindsey James, Tulia, B. A., Texas Technological College, 1934, Spanish.
Thesis: The Use of "Andalucismo" in the Plays of the Quintero Brothers.

John Wilford Jones, Lockney, B. A., West Texas State Teachers College, 1930, Education
Thesis: A Financial Survey of the Lockney Public Schools.

Lewis Norten Jones, Lubbock, B. S., Texas Technological College, 1938, History.
Thesis: Ghost Colleges on the South Plains.

William Bernice Jones, Roby, A. B., Howard Payne College, 1932, Education.
Thesis: A Statistical Comparison of Experience and Tenure among Teachers and Administrators in Texas for the Period 1930-1936.

Anne Cecilia McAtee, Houston, B. A., Texas University, 1932, Education.
Thesis: Extra-Curricular Activities in the Houston Elementary Schools with Special Emphasis on May Fetes.

Thomas Edwin McCollum, Hereford, B. A., Hardin-Simmons University, 1928, Education.
Thesis: The Status and Trends of Health and Physical Education in the Secondary Schools of the Texas Panhandle.

Mary Madeline Magee, Lubbock, B. A., Texas Christian University, 1929, Spanish.
Thesis: Armando Palacio Valdes as a Regional Novelist.

Gilbert Mize, Fluvanna, B. A., Sul Ross State Teachers College, 1932, Education.
Thesis: A Financial Survey of Fluvanna Independent School District.

Horace Grady Moore, Portales, New Mexico, B. A., Texas Technological College, 1929, English.
Thesis: Fundamental Similarities and Disparities Obtaining between Milton's "Paradise Lost" and Dryden's "The State of Innocence."

Roy Morris, Southland, B. A., Hardin-Simmons University, 1928, History.
Thesis: The Dominican Annexation Question.

Minnie Bel Murrell, Amarillo, B. S., West Texas State Teachers College, 1930, Education.
Thesis: The Traditional Versus the Integrated Method of Teaching III-B English.

Clifton Oliver, Jr., Amarillo, B. A., Texas Technological College, 1937 ,Economics.
Thesis: The Background and Development of Collective Bargaining through the National Labor Relations Act.

Ninetta Kimball Parker, Lubbock, A. B., Southern Methodist University, 1926, Education.
Thesis: The Brownie Movement with Special Reference to West Texas.

Carl Edward Pommerening, Burkburnett, B. A., East Texas State Teachers College, 1932, Education.
Thesis: A Study of Extra-Curricular Activity Values in Burkburnett High School.

Elizabeth Stokes Roach, Lubbock, B. A., Texas Technological College, 1937, Spanish.
Thesis: Perez Galdos: Prophet of the Spanish Revolution as Shown in Certain of His "Novelas contemporaneas."

Nellie Jane Sauer, Amarillo, A. B., Howard Payne College, 1921, English.
Thesis: American Indian Words in the Literature of the West and Southwest.

Calvin Roy Stevens, Muleshoe, B. A., Abilene Christian College, 1929, Education.
Thesis: Survey and Proposed Plan of Education for Bailey County, Texas.

Thelma Lee Stevens, Muleshoe, B. A., Hardin-Simmons University, 1930, History.
Thesis: History of Bailey County.

Ira Lee Watkins, Forsan, B. A., Texas Technological College, 1934, History.
Thesis: The History of Sterling County.

Hildred S. Weaver, Weatherford, B. A., North Texas State Teachers College, 1930, English.
Thesis: Stage Business Implied in the Dialogue of Shakespeare's Plays.

Robert Knight Williams, Mentone, B. S., Sul Ross State Teachers College, 1932, Education.
Thesis: A Curriculum for Fourth Year High School Social Science.

Raymond Wilson, Lelia Lake, B. A., Texas Technological College, 1934, Education.
Thesis: A Study of Recent Educational Trends in Donley County, Texas.

Frances Elizabeth Young, Bowie, B. A., Texas Technological College, 1933, Education.
Thesis: Development of Public School Music in Sam Houston State Teachers College and Texas Technological College.

Degree of Master of Science

Ralph E. Abbott, Wolfeboro, New Hampshire, B. S., University of New Hampshire, 1936, Geology.
Thesis: Insoluble Residues of Certain Formations of West Texas.

Lila Allred, Chillicothe, B. S., Texas Technological College, 1929, Home Economics Education.
Thesis: Factors Involved in Students Withdrawing from the Home Economics Division, Texas Technological College, at the End of the Freshman Year.

Arch T. Fowler, Jr., Brownfield, B. S., Texas Technological College, 1938, Animal Husbandry.
Thesis: Cottonseed By-Products for Fattening Cattle.

Maxine Langford, Bluff Dale, B. S., Texas Technological College, 1937, Geology.
Thesis: Study of a Pennsylvania Flora from Santo, Texas.

T. L. Leach, Lubbock, B. S., Texas Technological College, 1934, Agricultural Education.
Thesis: Occupational Status of Former Vocational Agricultural Students of Texas High Schools.

Samuel John Roach, Lubbock, B. S., Texas Technological College, 1939, Geology.
Thesis: Sediments of the Pecos River in New Mexico.

Robert Lee Thurman, Cisco, B. S., Agricultural and Mechanical College of Texas, 1937, Agricultural Education.
Thesis: An Outline on Teaching Cotton Production in Vocational Agriculture.

Degree of Master of Business Administration

Frank Guzick, Sherman, B. B. A., Texas Technological College, 1939, Business Administration.
Thesis: Credit Policies of Retail Dry Goods Concerns of Lubbock, Texas.

Degree of Master of Education

William Dawson Biggers, Sudan, B. S., West Texas State Teachers College, 1933, Education.
Thesis: A Financial Survey of the Sudan Independent School District.

Elbert Monroe Ezzell, Cisco, B. S., Abilene Christian College, 1935, Education.
Thesis: Educational History of Motley County, Texas.

James Rankin Gammill, Jal, New Mexico, B. S. in Education, Texas Technological College, 1935, Education.
Thesis: The Status of the Elementary School Principal in the State of New Mexico.

J. Melton Knowles, Panhandle, B. S., West Texas State Teachers College, 1933, Education.
Thesis: An Educational Survey of Carson County, Texas.

Mildred Vera McGhee, Borger, B. S., South West Missouri State Teachers College, 1934, Education.
Thesis: The Status of the Elementary School Principal, with Special Reference to the New Curriculum.

Leland Leslie Martin, Forsan, B. S. in Education, Texas Technological College, 1934, Education.
Thesis: Visualizing Education through a High School Excursion to Mexico City.

W. R. Newsom, Vernon, B. S., Sul Ross State Teachers College, 1931, Education.
Thesis: A Survey of the South Lockett School.

W. Vance Swinburn, Lakeview, B. S., North Texas State Teachers College, 1933, Education.
Thesis: Historical Development of the Equalization Fund in Texas.

REGISTER OF STUDENTS

LONG SESSION, 1939-40

ABBREVIATIONS

A—Agriculture
B—Business Administration
E—Engineering
Ed—Education
G—General
H—Home Economics
S—Science
1—Freshman
2—Sophomore
3—Junior
4—Senior
5—Graduate

Aaron, Abner, 2E ..... Rotan
Abbott, Bertha, 2H ..... Vernon
Abbott, Evelyn, 2H ..... Vernon
Abbott, Noble S., 4A ..... Abilene
Abdo, Milton, 1E ..... Dallas
Abel, Darlene, 1E ..... Lubbock
Adams, Elmer Howard, 1E ..... Spur
Adams, Frances Faye, 1H ..... Lakeview
Adams, James H., 3A ..... Tulia
Adams, Lona Bell, 1B ..... Anton
Adams, Peggy Jane, 2Ed ..... O'Donnell
Adams, Quentin, 2A ..... Estelline
Adamson, Daurene, 4B ..... Post
Adkins, Douglas, 3G ..... Thalia
Akarman, Edith, 4H ..... Lubbock
Aken, Harold, 2A ..... Rotan
Akers, Billy, 1E ..... Lubbock
Akins, Dudley, 4S ..... Hillsboro
Albin, Julia, 4B ..... Spur
Alexander, Carlos, 4B ..... Lamesa
Alexander, Jack, 1S ..... Lubbock
Alexander, Jack W., 3S ..... Lamesa
Alexander, Paul W., 2S ..... Arlington
Alford, Carl, 1E ..... Brownfield
Allbright, Wilburn, 1Ed ..... Loraine
Allen, Alfred, 1A ..... O'Donnell
Allen, Clifford, 1B ..... Pampa
Allen, E. D., 4A ..... Blum
Allen, Elwanda, 2G ..... Snyder
Allen, George H., 3E ..... Stratford
Allen, George Tom, 2A ..... Lubbock
Allen, Gordon, 4B ..... Lubbock
Allen, Howard, 3E ..... Lubbock
Allen, Jack W., 1E ..... Wichita Falls
Allen, J. D., 1B ..... Whiteflat
Allen, James, 2B ..... Hale Center
Allen, Kenneth, 2A ..... Quail
Allen, LaVerne, 1S ..... Lubbock
Allen, Muriel, 4B ..... Bellview, N. M.
Allen, N. J., 1G ..... Lubbock
Allen, Prentiss D., 4A ..... Lubbock
Allen, R. H., 2A ..... Lubbock
Allen, Robert, 1E ..... Garland
Allen, Robert T., 2S ..... Lubbock
Allen, Sammy, 1S ..... Brownwood
Allen, Wanda Louise, 4H ..... Lubbock
Allmon, Charles, 1E ..... Plainview
Alls, Elizabeth, 1G ..... Swenson
Allters, Roy, 1E ..... Hobbs, N. M.
Altman, Fred, 2S ..... Mexia
Altman, Robert L., 3E ..... Lubbock
Alverson, Carl, 3S ..... Ropesville
Alvey, Melvin, 1B ..... Lubbock
Ambrose, Allen, 1G ..... San Angelo
Amerson, W. A., 4G ..... Shallowater
Amick, Mary, 1H ..... Lubbock
Ammons, Dorothy Lee, 2Ed ..... Roby
Amo, William, 4G ..... Wichita Falls
Amonett, Thayne, 1G ..... Flomot
Anderson, Bill Glen, 1E ..... Albany
Anderson, Boyd, 1E ..... Westbrook
Anderson, Chester, 1B ..... Westbrook
Anderson, Douglas, 1E ..... Lubbock
Anderson, Ernest, 2B ..... Lubbock
Anderson, Glynn, 3E ..... Plainview
Anderson, Harold, 2E ..... Albany
Anderson, Jack, 3E ..... Shallowater
Anderson, J. R., 1E ..... Shallowater
Anderson, James, 2E ..... Dallas
Anderson, Nancy, 3Ed ..... Longview
Anderson, Ray, 1A ..... Aspermont
Anderson, Rena Beth, 1G ..... Plainview
Anderson, Robert S., 3E ..... Cisco
Andis, Bob, 1A ..... Pampa
Andrews, Gretchen Marie, 2Ed ..... Texline
Andrews, Robert O., 3A ..... Jean
Andrus, Allen, 1S ..... Anson
Angel, J. C., 1E ..... Loraine
Ansley, Amertius Burroughs, 4Ed .. Lubbock
Ansley, Jeanne, 1Ed ..... Amarillo
Ansley, Pearl, 1B ..... Lamesa
Applewhite, Ruth, 3B ..... Hale Center
Appling, Mary Helen, 1G ..... Slaton
Armstrong, C. C., Jr., 4E ..... Anson
Armstrong, Clifton, 3B ..... Lubbock
Armstrong, Edwin, 1G ..... Lubbock
Armstrong, Fred, 3E ..... Pecos
Armstrong, Neil, 1G ..... Lubbock
Armstrong, Ollie Sue, 1G ..... Lubbock
Arnette, Vivian, 1H ..... Anson
Arnold, Joan, 2B ..... Crosbyton
Arnold, Marvin, 2S ..... Ralls
Arnold, Robert, 1E ..... Lubbock
Arrington, Mark, 2B ..... Miami
Asbury, John, 1G ..... Cripple Creek, Colo.
Asher, Margaret, 1H ..... Paducah
Ashley, Monterey, 1H ..... Melrose, N. M.
Assiter, L. V., 4E ..... Floydada
Aston, James, 1E ..... Mabank
Atcheson, Ben, 4E ..... Lubbock
Atcheson, Mack, 2E ..... Lubbock
Atchison, Alawayne, 1H ..... Pecos
Ater, Nina Mae, 1H ..... Roscoe
Atkins, Amy Jane, 2G ..... Lubbock
Atkinson, Almarene, 3H ..... Shamrock
Atkinson, George N., 1B ..... Lubbock
Atkinson, Howard L., 1A ..... Lubbock
Atkinson, James S., 3B ..... Shamrock
Atwell, Kathryn, 4Ed ..... Ballinger
Austin, Don, 1B ..... Wellington
Austin, Henry, 2B ..... Lubbock
Aves, Charles A., 1E ..... Houston
Awtrey, W. H., Jr., 1A ..... Muleshoe
Axline, Keith, 3G ..... Lubbock
Axtell, Jane, 3B ..... Westbrook
Ayers, Hugh J., 2E ..... Floydada
Ayers, Patsy, 1B ..... Slaton
Babb, J. Clifton, 2E ..... Abilene
Babb, Martha Jean, 1Ed ..... Abilene
Babb, Truett, 1A ..... Post
Bachman, Joe (Justus), 2E ... Throckmorton
Bacon, Ina, 4G ..... Lubbock
Bailey, Kathryn, 2Ed ..... Lubbock
Bailey, Wade, 4A ..... Levelland
Baillio, Loyce, 2G ..... Elmo
Bain, Ethel M., 5Ed ..... Lubbock
Bain, George P., 3S ..... Plainview
Bain, Tyrus, 2G ..... Mexia
Bain, Vada, 5G ..... Lubbock
Bain, Viola, 3H ..... Bula
Bains, Harvel, 1E ..... Oplin
Baker, Charles, 1S ..... Lockney
Baker, Dorothy, 2Ed ..... Lubbock
Baker, Elva, 5Ed ..... Abilene
Baker, George, 3E ..... Amarillo
Baker, James, 4B ..... Lubbock
Baker, John E., 1E ..... Dallas
Baker, Mary Alice, 2G ..... Lubbock
Baker, Melvin, 1B ..... Wickett
Baker, Robert, 1G ..... Dallas
Baker, Wincer, 2B ..... Pampa
Baldwin, Elizabeth, 2S ..... Lubbock
Baldwin, Florence, 4G ..... Lubbock
Balfanz, Ralph, 4E ..... Abilene
Ball, Billie N., 1S ..... Slaton
Ball, Buster, 1G ..... Lubbock

Ball, Frank, 4E ..... Lubbock
Ball, Geraldine, 2B ..... Lubbock
Ballard, Alma Faye, 1B ..... Brownfield
Ballard, Robert, 1B ..... Ft. Worth
Ballew, Hardy, 1E ..... Lubbock
Ballow, Dempsey, 3G ..... Levelland
Ballow, Frances, 1B ..... Levelland
Bandeen, Robert, 1E ..... Abilene
Bandy, Thomas Ed, 1A ..... Happy
Banes, Wava A., 4G ..... Wink
Bankhead, C. L., 1A ..... Lamesa
Banks, Robert Lee, 1B ..... Lubbock
Bankston, Norma Gene, 1B ..... Ballinger
Barber, Alva, 1E ..... Lubbock
Barber, Dale, 1G ..... Sandpoint, Idaho
Barber, Jack A., 1E ..... Lubbock
Barber, John, 2E ..... Forsan
Barber, Paul, 1G ..... Seagraves
Bargsley, Opal, 1B ..... Abilene
Barker, Arthur, Jr., 1E ..... Lockney
Barnard, Charles F., 4E ..... Tulsa,, Okla.
Barnard, Marie, 2G ..... Lubbock
Barnes, George G., 1B ..... Dallas
Barnes, George S., 1A ..... Hale Center
Barnes, Glynn, 1E ..... Honey Grove
Barnes, Nola, 1G ..... Iraan
Barnett, Alberta, 4S ..... Lubbock
Barnett, Carl, 1E ..... Dallas
Barnett, J. W., 1S ..... Phillips
Barnett, Mary Clare, 1Ed ..... Lubbock
Barr, Virginia Lee, 3H ..... Lubbock
Barrett, Howard, 1A ..... Lubbock
Barrett, Jim, 2S ..... Lubbock
Barrett, Wolsey, 1G ..... Snyder
Barrick, Milton, 4E ..... Abernathy
Barrier, Pauline, 2G ..... Lubbock
Barron, Elmerine, 3H ..... Lamesa
Barron, Jane, 2H ..... Rotan
Barry, Lois May, 2B ..... Lubbock
Bartel, Albert, 4E ..... Dallas
Barton, La Verne, 1H ..... Lubbock
Barton, Weldon, 1G ..... Earth
Basham, David, 1A ..... Lubbock
Baskin, Billy, 3B ..... Lubbock
Baskin, Margaret, 5G ..... Lubbock
Bateman, Hilton, 3E ..... Weatherford
Bates, Mary Glen, 3H ..... Roby
Battenfield, Horace, 2S ..... Whiteface
Battin, Buford, 4G ..... Lubbock
Batton, Flodell, 1B ..... Stinnett
Batton, Nettie Belle, 2G ..... Littlefield
Baugh, Lee, 2B ..... Brownwood
Bauman, Willard E., 4E ..... Munday
Baumann, Edward, 1E ..... Loraine
Baumgardner, Forrest G., 4A .... Wellington
Baumgardner, Haynes, 2A ..... Wellington
Baumgardner, James, 2G ..... Lubbock
Baumgardner, John Henry, 5A .. Wellington
Baumgardner, Margaret, 3G ..... Wellington
Baumgart, Pauline, 1H ..... Mercedes
Bavousett, Neva Dean (Mrs.) 5H .. Lubbock
Bayless, Lawrence, 3E ..... Balmorhea
Bayless, Lois, 1S ..... Kermit
Baze, Kelly, 1S ..... Idalou
Beal, Wanna Ruth, 1G ..... Sweetwater
Beard, Alton, 4B ..... Lubbock
Beard, Bruce, 3S ..... Lubbock
Beard, Brunette, 2G ..... Lubbock
Beasley, Dorothy, 1B ..... Skellytown
Beasley, Marihelen, 2S ..... Lubbock
Beaty, Charles L., 1E ....Dallas
Beaty, Unita, 1B ..... Lubbock
Beaver, Billy (Wm.) 3A ..... Mexia
Beavers, Jack D., 2E ..... Hillsboro
Beavers, Spencer, 1B ..... Muleshoe
Bechtel, Marion, 1G ..... Slaton
Bechtol, Roy, 1E ..... Lubbock
Beck, Curtis, 1A ..... San Angelo
Beckmeyer, Harold, 3G ..... Sparenberg
Bednar, Edwin, 1A ..... Mereta
Beggs, George, 1A ..... Ft. Worth
Beiersdorf, Lois, 1H ..... Dallas
Belcher, Herbert, 1G ..... Lubbock
Belcher, William F., 2G ..... Lubbock
Belew, Ross, 1E ..... Fluvanna
Bell, Albert, 1E ..... Fabens
Bell, Alvin, 2A ..... Dorchester
Bell, Barbara, 1S ..... Ackerly
Bell, Evelyn, 1B ..... Melrose, N. M.
Bell, Forrest, 2E ..... Farwell
Bell, Howard, 3E ..... Rankin
Bell, James Ross, Jr., 2G ..... Childress
Bell, Laura, 3H ....Lubbock
Bell, Lowell, 1A ..... Lindsay, Okla.
Bell, Ted Barnett, 1S ..... Floydada
Bell, W. F., 4A ..... Dorchester
Bellamy, Clifton N., 4E ..... Merkel
Bellville, Roy, 1A ..... Dallas
Benger, Ira, 2A ..... Friona
Benger, Noel, 3A ..... Friona
Benham, Marion, 3A ..... Crowell
Bennett, Byron, 3E ..... Loraine
Bennett, J. Weldon, 1G ....Stamford
Bennett, Lavon, 2E ..... Paducah
Bennett, Lorna, 3G ..... Amarillo
Bennett, Louise, 1S ..... Amarillo
Bennett, Talbert, 4B ..... Lubbock
Bennett, Vernon, 2E ..... Portales, N. M.
Benson, Bennett, 4H ..... Seminole
Benson, Charles, 1G ..... Lubbock
Benson, Lyman, 1B ..... Shamrock
Bentley, Martha Nell, 2B ..... Anton
Benton, Eugene, 5G ..... Cumby
Benton, La Freda, 2Ed ..... Crosbyton
Bergholm, Adele, 2S ..... Lubbock
Bergner, John Carl, 4A .... Texhoma, Okla.
Berrier, Ancil, 1B ..... Maypearl
Berry, Donna Jo, 1B ..... Pampa
Berry, Oma, 3B ..... Seymour
Bertrand, J. R., 4A ..... Whitedeer
Beseda, J. Maitland, 2B ..... Caldwell
Best, Melvin, 2S ..... Lubbock
Bettinger, Charles, 1B ..... Ft. Worth
Bettle, Clayton, 1E ..... Big Spring
Betts, Flora May, 4S ....Waxahachie
Bevers, Willie Murel, 2H ..... Lakeview
Bickham, John, 1S ..... Belle Center, Ohio
Bidwell, Barbara Ann, 1S ..... Lubbock
Bihl, Betsy Dan, 3B ..... Ft. Stockton
Billingsley, Roy, 1A ..... Lubbock
Binford, Barbara, 3G ..... Wildorado
Binford, Nancy Jean, 1Ed ..... Wildorado
Bingham, Abrey, 4A ..... Calf Creek
Bingham, Dorothy Nell, 1G ..... Calf Creek
Bingham, Frances, 3H ..... Wichita Falls
Bingham, Francis, 1Ed ..... Spur
Bingham, Justin, 4E ..... Bridgeport
Bingham, Lona Lee, 4Ed ..... Wickett
Binkley, Audrey, 3S ..... Ft. Worth
Binkley, W. Brent, 3E ..... Ft. Worth
Bird, Charles, 2E ..... Ft. Davis
Birdsong, Junior L., 2E ..... Pittsburg
Birdsong, Merlin, 2E ..... Pittsburg
Birdwell, Christine, 2G ..... Ralls
Birdwell, Imogene, 3G ..... Snyder
Birdwell, Ouida, 3H ..... Snyder
Birkman, Margaret, 4H ..... Lubbock
Birmingham, Pat M., 1A ..... Canadian
Bishop, James K., 2A ..... Lubbock
Bishop, J. Colon, 1E ..... Mexia
Bishop, LeRoy, 1E ..... Lueders
Black, Carolyn, 3Ed ..... Barstow
Black, Charlie, 3A ..... Barstow
Black, Elizabeth, 3G ..... Barstow
Black, Joyce, 4H ..... Lubbock
Black, Kathryn, 4E ..... Lubbock
Black, Keith, 1A ..... Lubbock
Black, S. J., 3E ..... Pampa
Black, Winfred, 3S ..... Comanche
Blackburn, Billye Louise, 1H ..... Seymour
Blackburn, Lewis P., 3E ..... Iraan
Blackburn, Snow, 1B ..... Iraan
Blackstock, Bernice, 1B ..... Lubbock
Blackwell, John E., 4B ..... Vernon
Blackwell, Joyce Y., 1S ..... Canton
Blair, Aubrey, 3E ..... Holland
Blair, George B., 5A ..... Lubbock
Blair, Leon, 4G ..... Lubbock
Blair, Sibil, 3H ..... Lubbock
Blair, W. D., Jr., 1B ..... Spur
Blake, William, 2B ..... Lubbock
Bland, Bobbie Louise, 4B ..... Abilene
Bland, Delma, 1S ..... Sweetwater
Blanda, Peter, 1G ..... Lubbock
Blankenship, Margery, 2G ..... Lubbock
Bledsoe, Betty, 3G ..... Becton
Bledsoe, Bill, 1E ..... Amarillo
Bledsoe, Willis H., 4G ..... Lubbock

Bley, Winston, 1B ..... Olton
Block, Ivan L., 3B ..... Pampa
Blocker, John, Jr., 2B ..... Stanton
Blodgett, Ralph, 3B ..... Spearman
Blomshield, Harry W., 1E ..... Big Spring
Blomshield, John B., 1E ..... Big Spring
Blundell, Lee, 2G ..... Lubbock
Bobbitt, Edwin, 1A ..... Panhandle
Bobbitt, Sallie M., 1H ..... Lockney
Bodenhamer, Hayden Rae, 1G ..... Paducah
Bogan, Jack, 1B ..... McLean
Bogan, Joe Billy, 1A ..... McLean
Boggess, Nancy C., 2Ed ..... West
Boitnott, Boyd, 3S ..... Beaumont
Bolton, Lucille, 2B ..... Becton
Bond, Doris, 1G ..... Morton
Bonds, Cosette, 2G ..... Lubbock
Bonds, Eloise, 1G ..... Lubbock
Bone, Pat, 1E ..... Lubbock
Bones, J. C., 3E ..... Shamrock
Bonner, Dickson, 2S ..... Dallas
Booher, George, 1E ..... Post
Booker, Fayrene, 4H ..... Lubbock
Boone, Harriet, 4S ..... Seymour
Boone, Jack Warren, 2E ..... Lubbock
Boone, Jimmie Amelia, 1G ..... Lubbock
Boone, Margaret, 4B ..... Seymour
Booth, Mary Catherine, 3G .... Searcy, Ark.
Borah, Gilbert, 1A ..... Grand Prairie
Borden, Chas. J., 4E ..... Hereford
Boren, Claude, 2E ..... Lubbock
Boren, Clyde W., 1G ..... Snyder
Born, Harry, 1G ..... Lubbock
Bost, George V., 1B ..... Amarillo
Bost, Jack, 1E ..... Amarillo
Bostick, Elizabeth, 1G ..... Slaton
Boston, Billy, 1E ..... Perryton
Boswell, Fredrieka, 4E ..... Ft. Worth
Boswell, George Marion, Jr., 4Ed .. Coahoma
Bosworth, R. L., 1A ..... Corpus Christi
Bosworth, Richard, 1B ..... Tahoka
Bottlinger, Marvin Alvin, 2E ..... Ireland
Boucher, Mayo, 3G ..... McAdoo
Bounds, Bland, 4E ..... Baird
Bourland, Wilson, 3A ..... Flomot
Bowden, Adrian, 4E ..... Harrold
Bowen, Phylis, 1Ed ..... San Angelo
Bowen, Pickens, 3G ..... Dallas
Bowers, Earl, 3E ..... Lorenzo
Bowlin, Henrietta, 1H ..... Lubbock
Bowlin, James, 1B ..... O'Donnell
Bowlin, Mrs. Jeannie V., 1G ..... O'Donnell
Bowlin, Leona, 5Ed ..... Lubbock
Bowman, Mrs. Stella, 4Ed ..... Lorenzo
Bownds, Mrs. Gradie W., 1G ..... Lubbock
Boyd, Durward, 4G ..... Cisco
Boyd, Imogene, 1B ..... Lubbock
Boyd, Odie, 2S ..... Lubbock
Boynton, Burline, 4E ..... Lubbock
Boynton, E. V., Jr., 4E ..... Lubbock
Boynton, Seth, 1S ..... Big Spring
Bradford, James, 2B ..... Dimmitt
Bradley, Gladys, 1H ..... Fife
Bradley, Ned, 4B ..... Lubbock
Bradley, Nellie Faye, 4Ed ..... Fife
Bradshaw, Fred, 3A ..... Lorenzo
Bradshaw, Johnie, 1G ..... Sweetwater
Brady, Aubrey, 4E ..... Lubbock
Braly, Earl, 5G ..... Eastland
Braly, Hugh Alton, 2E ..... Delwin
Bramlett, Ernest Carl, 4A .... Stephenville
Branch, Ruby, 1H ..... Lubbock
Bonham, Gordon, 2E ..... Plainview
Brannen, James, 1B ..... Peacock
Brannen, Marguerite, 1H ..... Littlefield
Brannon, Hunter, 2G ..... Odessa
Brashear, Earle, 2Ed ..... Temple
Brashear, Frances, 1G ..... Temple
Braswell, Clasper, 1B ..... Sherman
Braswell, J. D., 1E ..... Lamesa
Bratcher, John Bundy, 2B ..... Lubbock
Bratton, Bill, 4E ..... Pampa
Bratton, Laurissa, 1H ..... Rochelle
Brauer, Edwin, 1A ..... Del Rio
Brazile, Berry, 2E ..... Lubbock
Brecheen, Virgil, 1S ..... Lubbock
Brenneman, Malcolm, 4S ..... Midland
Brewer, Chas. C., 1E ..... Ft. Worth
Brewer, J. H., 2E ..... Slaton
Brewer, Jim Bob, 3B ..... Memphis
Brewer, Zane G., 4A ..... Olton
Brice, Richard, 1G ..... Snyder
Bridge, Dumont, 1A ..... Afton
Bridges, Mrs. J. R., 3Ed ..... Lubbock
Brigham, Jim, 2G ..... Big Spring
Bright, Wesley Council, 4G ..... San Antonio
Brinker, Harold, 1A ..... Morton
Brister, Lowell, 3S ..... Crane
Britton, T. L., 1S ..... Lubbock
Britton, Vivan H., 2B ..... Delwin
Brock, La Verne, 1B ..... Eliasville
Brooke, Juno Helen, 1H ..... Olton
Brooks, Betty, 2B ..... Lubbock
Brooks, Burl, 2E ..... Odessa
Brooks, John, 3E ..... Lubbock
Brooks, Manuel, 3A ..... Lubbock
Brooks, Margaret Spangler, 2H ..... Pampa
Brooks, Quentin E., 1E ..... Lubbock
Brooks, Steve A., 2E ..... Borger
Brotherson, Doris, 1H .... Pedro Miguel, ... Canal Zone
Brotherson, Graham, 3E .... Pedro Miguel, ... Canal Zone
Browder, Dave, 1G ..... Giles
Brown, Arnold, 1B ..... Earth
Brown, Buford, 2S ..... Truscott
Brown, Cadmus, Jr., 2A ..... Sylvester
Brown, Clifford, 2G ..... Higgins
Brown, Deverle, 2B ..... Sweetwater
Brown, Earl, 1E ..... Abernathy
Brown, E. L., 1E ..... Roswell, N. M.
Brown, Ernest D., 3S ..... Electra
Brown, Everett Harry, 1G ..... Canadian
Brown, Franklin D., 4S ..... Lubbock
Brown, Helen E., 4B ..... Lubbock
Brown, Helen Ruth, 2B ..... Plainview
Brown, Henri Elizabeth, 2G .... Sweetwater
Brown, J. Baskin, 2A ..... Stratford
Brown, Jack, 2G ..... Lubbock
Brown, Jack Warren, 2E ..... Eastland
Brown, Jarrell, 1E ..... Lubbock
Brown, Jimmie, 2B ..... Abilene
Brown, J. Kenan, 1E ..... Paducah
Brown, Lucile, 1E ..... Lubbock
Brown, Marshall, 4G ..... Troupe
Brown, Marvin, 1A ..... Bledsoe
Brown, Robert, 4A ..... Ft. Worth
Brown, Sidney W., 3B ..... Lubbock
Brown, William, 3B ..... Kilgore
Brownd, Elza Marie, 1Ed ..... Levelland
Browne, Glenn, 2E ..... Lubbock
Brownfield, Jane, 1B ..... Brownfield
Browning, Bruce, 3Ed ..... Quitaque
Browning, Katherine, 2H ..... Truscott
Brownlee, Floyd, 1E ..... Pecos
Bruce, Charles, 2G ..... Mt. Vernon
Brummett, Ita, 3H ..... Lubbock
Brunson, G. W., 1A ..... Lubbock
Brunson, Loyd, 1B ..... Longworth
Bryan, Joe Dan, 3B ..... Lubbock
Bryan, Mrs. Dan, 3H ..... Spearman
Bryan, Luzelle, 3G ..... Littlefield
Bryant, Basil, 4E ..... McKinney
Bryant, Bob, 1G ..... Olton
Bryant, Mattie Lou, 1G ..... Morton
Bryant, W. Noel, 4E ..... Wheeler
Buchanan, Beatrice, 3H ..... Friona
Buchanan, Monroe, 5S ..... Spearman
Buchenau, Pauline, 4B ..... Tulia
Buckingham, James H., 1G ..... Pampa
Buckley, Anne May, 4H ..... Ft. Worth
Buckner, Billye Patricia, 2Ed ..... Lubbock
Buckner, Ross A., 5Ed ..... Lubbock
Bucy, Chas. L., 4B ..... Rising Star
Buffington, Clint, 4E ..... Midland
Buie, Janice, 2B ..... Stamford
Buie, John, 2E ..... Corsicana
Bullock, Alvarene, 4G ..... Becton
Bullock, G. K., 2A ..... Becton
Bumpass, Mrs. Rommie Boyd, 5G .. Lubbock
Bundrant, Charles Ollie, 2E ..... Meadow
Bundrant, Vernon, 2G ..... Meadow
Bunger, Doris, 1G ..... Ozona
Burdett, Robert Olen, 1B ..... O'Donnell
Burford, Wayne, 2A ..... Clovis, N. M.
Burk, Glenn S., 2S ..... Anton
Burke, Betty, 1G ..... Lubbock
Burke, Genevieve, 2B ..... Jacksonville

Burkett, Berniece, 2G ..... Henrietta
Burks, W. A., 4E ..... Ft. Worth
Burleson, Marcille, 3G ..... Meadow
Burleson, N. Lacy, 1G ..... Lubbock
Burleson, Thomas, Jr., 1A ..... Lubbock
Burnett, Bessie, 2H ..... Monahans
Burnison, Wilma June, 1H ..... Munday
Burns, Wanda, 1G ..... Lamesa
Burress, Buna, 1B ..... Lubbock
Burroughs, Mrs. Arvella B., 3H ..... Olton
Burrow, Fontella, 1H ..... Tulia
Burrus, Isabelle, 1H ..... Lubbock
Burson, Joe K., 3G ..... Whitedeer
Burton, Dorothy, 2H ..... Pampa
Burton, Geraldine, 3H ..... Childress
Burton, Sterling, 1E ..... Kilgore
Burwell, Richard, 4B ..... Amarillo
Bussey, Dorothy, 1G ..... Lubbock
Butcher, Mary Louise, 1G ..... Ft. Worth
Butler, Bernard, 1E ..... Lubbock
Butler, Davis S., 2G ..... Slaton
Butler, Ernest, 1A ..... Jal, N. M.
Butler, Helen, 1H ..... Amarillo
Butler, Henri Ella, 2H ..... Lubbock
Butler, James A., 1B ..... Seymour
Butler, L. Dean, 3B ..... Tulia
Butler, Wayne, 1B, ... Girard
Butler, Zelline, 1B ..... Lubbock
Butts, Carl, 2B ..... Morton
Butts, Charles, 2G ..... Wichita Falls
Butts, Helen, 1B ..... Morton
Byars, Jesse, 2E ..... Afton
Byers, Johnnie, 3B ..... Lorenzo
Bynum, Ivy Leah, 1G ..... Lubbock
Bynum, Jeanette, 1H ..... Lubbock
Byrd, Lee, 4G ..... Claude
Byrd, Markrel, 1B ..... Jacksonville
Byrne, Irene, 3B ..... Littlefield
Byrom, Granville, 1A ..... Trent
Cagas, Tommy, 1B ..... Terrell
Cadra, Godfrey, 1E ..... Shamrock
Caffee, Louie, 1B ..... Dougherty
Caffey, Frances, 2H ..... Loop
Caldwell, Benny, 1S ..... Slaton
Caldwell, J. R., Jr., 3A ..... Farwell
Calhoun, Charles, 3G ..... Lubbock
Calkins, Dick, 2E ..... Corsicana
Callan, William J., 1S ..... Lubbock
Calley, Gem Bob, 1G ..... Lubbock
Calliham, Mauna Loa, 2G ..... Conway
Camp, Earl, 2S ..... Magazine, Ark.
Camp, Lanell, 3H ..... Abilene
Campbell, Edwin, 1E ..... Lubbock
Campbell, Helen Faye, 1G ..... Lubbock
Campbell, Isabell, 3G ..... Spur
Campbell, John, 1A ..... McAdoo
Campbell, Robert, 1E ..... Odessa
Campbell, Robert Lee, 3B ..... Stanton
Campbell, Ruth, 2G ..... Amarillo
Campbell, Samuel, 1E ..... Lubbock
Cannon, Ima, 3B ..... Hale Center
Cantrell, Helen, 4E ..... Plainview
Cantrell, James, 3B ..... Plainview
Caraway, Doyle, 1B ..... Sherman
Cardwell, H. T., Jr., 1A ..... Vernon
Carl, Eugene, 3B ..... Waco
Carle, Tom, 1G ..... Lubbock
Carlisle, Gordon, 2S ..... Houston
Carlock, Watson, 2E ..... Lubbock
Carmack, Jo Marie, 4G ..... Clovis, N. M.
Carnall, Ann, 1H ..... Ft. Smith, Ark.
Carnes, Rex, 3G ..... De Leon
Carnett, Richard, 3B ..... Lubbock
Carney, Thomas G., 1E ..... Hermleigh
Carpenter, Clifford, 1E ..... Olney
Carr, Galen M., 1E ..... Abernathy
Carr, Waggoner, 4G ..... Lubbock
Carr, Warlick, 4G ..... Lubbock
Carrigan, Charles, 1S ..... Sweetwater
Carriker, Max, 3S ..... Royston
Carroll, Cecil, 1A ..... Crowell
Carroll, Ed, 1A ..... Plainview
Carroll, Louise, 1B ..... Plainview
Carroll, Mary Helen, 2S ..... Crowell
Carson, David, 4A ..... Bovina
Carter, Moncure, 1G ..... Odessa
Carter, Thelma, 4Ed ..... Darrouzett
Carter, Warren, 3S ..... Wichita Falls
Carter, William, 1S ..... Lubbock
Cartrite, Elva, 1B ..... Sunway
Cartwright, Lon, 1A ..... Terrell
Carver, Dorothy, 3G ..... Bonham
Cary, Pearl, 1H ..... Goldsmith
Case, Frankie Mae, 2B ..... Petersburg
Casey, Clyde, 1A ..... Hermleigh
Casey, Dorothy, 3H ..... Wolfforth
Casey, Jim Tom, 4E ..... Hermleigh
Casey, Scott, 2B ..... Olney
Casey, Winiford, 1H ..... Hermleigh
Cash, Joe H., 3E ..... Denison
Cass, D. L., 1E ..... Post
Cass, Lewis, 1S ..... Wink
Castle, David, 2E ..... Abilene
Castle, Mrs. Dorothy Allen, 2B ..... Lubbock
Castle, Lila, 3Ed ..... Knott
Castleberry, Paul, 2G ..... Dalhart
Caswell, Cloyd, 3E ..... Tahoka
Catching, Clyde, 1S ..... Lubbock
Catching, Wayne, 2B ..... Sweetwater
Cathcart, Oric, 1A ..... Lubbock
Caudle, Vonnell, 2Ed ..... Whiteface
Cave, Anna Lou, 2H ..... Rotan
Cave, Mark, 1B ..... Rotan
Caveness, Sherrell, 4G ..... Tahoka
Caviness, Jamie, 3A ..... Hurlwood
Cayce, Mack, 1G ..... Dallas
Cearley, Alma Faye Rhea, 2G ..... Levelland
Cearley, Alvin G., 3E ..... Levelland
Cearley, J. B., 5G ..... Levelland
Cecil, Bennie, 1E ..... Wichita Falls
Chalk, John, 2S ..... Lubbock
Chamberlain, Amatus, 4E ..... Plainview
Chambers, Dan, 2S ..... Wichita Falls
Chambers, John, 3G ..... Wichita Falls
Chambliss, Roy, 3G ..... Brownfield
Chance, Billie, 1B ..... Paris
Chance, Edgar, 2A ..... Lubbock
Chandler, John., Jr., 1B ..... Seymour
Chaney, Ranell, 4G ..... Littlefield
Chant, Novie, 3G ..... Campwood
Chapman, David, 2E ..... Winters
Chapman, Roy, 2A ..... Ralls
Chapman, Wilson A., 4E ..... Quitaque
Chapman, Wilson M., 4E ..... Lubbock
Chapmond, Lawrence, 1E ..... Winters
Chappell, Linda, 2G ..... Dallas
Chappell, Rosalie, 4G ..... Lubbock
Charles, Harry Jay, 1A ..... Bovina
Charlesworth, Vivian, 1G ..... Kermit
Chase, William, 1G ..... Ruidosa, N. M.
Chastain, Mildred, 1G ..... Panhandle
Cheatham, Vorhees, 3B ..... Abilene
Cheek, Donald, 1B ..... Wink
Cheek, Jimmie Harold, 2S ..... Wink
Chenault, Charles, 2E ..... Wichita Falls
Cherry, Betty, 1G ..... Lubbock
Chester, A. D., 1E ..... Lancaster
Childress, Elliot, 1E ..... Lubbock
Childress, John, 3A ..... Ozona
Chiles, Doyle, 3Ed ..... O'Donnell
Chiles, Fegan, 1E ..... Waco
Chisholm, Roberta, 1B ..... Lubbock
Chisholm, Sam, 2B ..... Brownfield
Chitsey, Avon, 2H ..... Inadale
Chittim, Jack R., 1A ..... San Antonio
Chitwood, Edd, 1E ..... Borger, Okla.
Chitwood, Rex, 1S ..... Olton
Christianson, Mattie, 3E ..... Seagraves
Christianson, Weldon, 2E ..... Big Spring
Christianson, Lloyd, 4E ..... Lubbock
Church, M. C., 1A ..... Merkel
Clair, Virginia, 3B ..... Wichita Falls
Claitor, Carroll, 3E ..... Petersburg
Clanahan, Jim, 3S ..... Amarillo
Clapp, Jean, 2G ..... Lubbock
Clark, Albert, 4E ..... Happy
Clarke, Bette, 1Ed ..... Canadian
Clark, Betty, 1H ..... Happy
Clark, Bill, 2G ..... Lubbock
Clark, Clayton, 4B ..... Frisco
Clark, J. C., 1A ..... Bonham
Clark, Lois Anita, 3Ed ..... Ralls
Clark, Paul, 1E ..... Abilene
Clark, Weldon, 2E ..... Wichita Falls
Clarkson, Belmont, 1B ..... Lubbock
Clarkson, Velma, 1Ed ..... Lubbock
Clay, Sibyl Joyce, 1B ..... Lubbock
Clayton, Guy, 3S ..... Amarillo

Clayton, M. Cy, 3A ..... Bryson
Cleckler, Waylon, 1B ..... Roscoe
Clement, Ernest, 2E ..... Valley View
Clements, Frank, 2E ..... Lubbock
Clements, June, 1G ..... Snyder
Clements, Mary, 3H ..... Lubbock
Clinton, Leon, 1G ..... Lubbock
Cloyd, A. E., Jr., 3B ..... Truscott
Cloyd, Richard, 2B ..... Truscott
Coats, Charlie, 2A ..... Lubbock
Coats, David, 4B ..... Seagraves
Coe, Mary Jo, 3G ..... Lubbock
Coffee, Wayne, 1G ..... O'Donnell
Coffer, Gerald, 1E ..... Amherst
Coffey, Marianna, 1G ..... Childress
Coffey, R. J., 1E ..... Crosbyton
Coffman, Bill, 2G ..... Lubbock
Coffman, C. E., 1E ..... Ropes
Coffman, Margaret, 1H ..... Littlefield
Coffman, Marian, 1B ..... Lubbock
Cogburn, Blanton, 4B ..... Lubbock
Cogburn, Bonnie Faye, 4H ..... Lubbock
Cogburn, Harold, 2S ..... Lubbock
Cogdell, John, 4A ..... Crowell
Cogdell, Jonisue, 2G ..... Snyder
Cogdill, Howard, 1S ..... Amarillo
Coker, Douglas, 1A ..... Athens
Coker, Robert, 1E ..... Aspermont
Cole, Golda, 1B ..... Lubbock
Cole, Jeannette, 2G ..... Pampa
Cole, Joe Elmer, 1A ..... Jean
Coleman, Ann, 4B ..... Lamesa
Coleman, Bill Bob, 1A ..... Ft. Worth
Coleman, James, 1S ..... Friona
Coleman, S. E., 3E ..... Lubbock
Coles, Edmund, 3E ..... Lorenzo, Idaho
Coles, Richard, 1E ..... Higgins
Collier, Catherine, 3H ..... Lubbock
Collier, Cora, 1B ..... Littlefield
Collier, Gerald, 2E ..... Ralls
Collier, Howard, 1A ..... Pecos
Collings, J. F., 2B ..... Wilson
Collins, Jesse, 1S ..... Big Spring
Collins, Marie, 2H ..... Rotan
Collins, Tom, Jr., 1B ..... Channing
Collinsworth, J. D., 2B ..... Borger
Comer, Alene, 2G ..... Aspermont
Comer, Leo, 1A ..... Lockney
Compton, Charles, 4G ..... Lubbock
Compton, Jimmie Fay, 4B ..... Ft. Worth
Compton, Katie Ray, 2H ..... Clovis, N. M.
Conklin, George, 4B ..... Hereford
Conklin, Merlin, 1G ..... Hereford
Conley, Ray, 2E ..... Borger
Connell, John Wm., 2A ..... Crowell
Connell, Carl, 1A ..... Crowell
Connelly, Ruth Joan, 1G ..... Plainview
Conner, Geraldine, 4H ..... Haskell
Conner, Maxine, 1G ..... Plainview
Conrad, Tom, 1S ..... Ft. Worth
Conroy, Jack, 4E ..... Cleburne
Cook, Adrain, 2S ..... Post
Cook, Claude, 3A ..... Mankins
Cook, Clem, 4E ..... Houston
Cook, Kathryn, 2H ..... Post
Cook, Olene, 1H ..... Post
Cook, Pauline, 2H ..... Littlefield
Cook, Russell, 5A ..... Littlefield
Cooke, Alex, 3B ..... Lubbock
Cooke, Bill, 1E ..... McLean
Cooke, Billie, 1B ..... Lubbock
Cooksey, Dudley, 2E ..... Lubbock
Coon, Lester, 5S ..... Lubbock
Coon, Maisie, 1S ..... Lubbock
Coon, Ralph, 3E ..... Lubbock
Coons, Gex, 4E ..... Texhoma
Cooper, J. Augustus, 3A .... Roaring Springs
Cooper, Alma Lee, 1Ed ..... Brownwood
Cooper, Billy, 1E ..... Kermit
Cooper, Evelyn, 1G ..... El Paso
Cooper, Lovena, 1H ..... Lubbock
Cooper, Mariam, 2G ..... Lubbock
Cooper, N. B., 1G ..... Big Lake
Cooper, Stewart, 1S ..... Abilene
Cope, Ed, 1S ..... Monahans
Cope, M. C., 1A ..... Abilene
Copeland, Elizabeth, 2Ed ..... Ropesville
Copeland, John, 3E ..... Jacksboro
Copeland, Louvil R., 4A ..... Bowie
Copeland, William A., 1S ..... Lubbock
Corbell, Virginia, 1Ed ..... Post
Corbett, Harry, 1E ..... El Paso
Corder, Fount Price, 2A ..... Uvalde
Corley, Genelle, 1H ..... Wolfforth
Corley, Helen, 4G ..... Olney
Corley, Herbert, 1A ..... Terrell
Corley, Juanita, 3G ..... Wolfforth
Cornelius, Jack, 1B ..... Plainview
Coston, Ferrell, 1S ..... Hermleigh
Cotten, Charles, 1G ..... Ft. Worth
Cotton, Willie, 1G ..... Lubbock
Couch, Alfred, 3B ..... Aspermont
Couchman, Sue Belle, 3H ..... Brownfield
Counts, Jim, 1A ..... Rotan
Coursey, James, 1E ..... Lubbock
Covey, D. R., 1B ..... Gail
Covington, Vivian, 1E ..... Sudan
Cowan, James H., 4E ..... Spur
Cowan, Ruby, 1G ..... Spur
Cowan, Ruth, 2H ..... Spur
Cowart, Bailey, 4S ..... Amarillo
Cowart, Mrs. Roscoe, 1G ..... Lubbock
Cowden, Jack, 1E ..... Iowa Park
Cox, Barbara, 2G ..... Post
Cox, Bill James, 1E ..... Lehman
Cox, Billie Lea, 3G ..... Wink
Cox, Bula Dee, 1H ..... Kress
Cox, Emma Ruth, 2G ..... Smithfield
Cox, Joanne, 3H ..... Denison
Cox, Joe, 2G ..... Plainview
Cox, Jo Nell, 1H ..... Lubbock
Cox, Louise, 2H ..... Woodson
Cox, Lucille, 4G ..... Morton
Cox, Mary Louise, 1G ..... Ferris
Cox, Norman, 1E ..... Pampa
Cox, Thomas Karl, 1E ..... Grimes, Okla.
Cox, Welby, 1E ..... Pearland
Cox, William, 4A ..... El Paso
Coyne, Clarence, 3B ..... Lubbock
Coyne, Lawrence, 4A ..... Lubbick
Craddock, Bill, 3A ..... Robert Lee
Craig, Ruth, 3G ..... Lubbock
Crane, Ann Adele, 1S ..... Dallas
Craven, Frank N., 2S ..... Lubbock
Craven, Joyce, 4E ..... Lubbock
Craver, A. G., Jr., 2A ..... Sweetwater
Cravy, Homer E., 1E ..... Post
Crawford, Duffer, 3E ..... Haskell
Crawford, J. Ed., 4S ..... Tulia
Crawford, John F., 4Ed ..... Ft. Worth
Crawford, Mary Len, 4H ..... Childress
Crawford, Paul B., 1E ..... Haskell
Crawford, Thelma, 1G ..... Olton
Creitz, Rex E., 1A ..... Adrain
Crites, Harold, 4G ..... Lubbock
Cromer, Layuna, 4E ..... Lubbock
Cromer, Robert, 1E ..... Lubbock
Cromer, Thelma, 1Ed ..... Lubbock
Crosby, Eileen, 4G ..... Borger
Crosby, Lois, 2H ..... Wilson
Crosland, Grant, 1A ..... Mineral Wells
Crosley, June, 2G ..... Plainview
Crouch, Alby, 2H ..... Garden City
Crouch, Gertrude, 1Ed ..... Dallas
Crow, Charles E., 2E ..... Dallas
Crow, Elven, 1E ..... Abernathy
Crow, Joyce, 1Ed ..... Ft. Worth
Crown, O'Dell, 1E ..... Littlefield
Crowell, Frank Hays, 3B .... Wichita Falls
Crowley, Alton, 1E ..... Borger
Cudd, Warren, 1B ..... Lubbock
Culwell, Leslie, 2E ..... Henrietta
Culwell, Mary Leslie, 1H ..... Slaton
Cumbie, Louise, 4Ed ..... Roby
Cummings, John R., 4G ..... Byers
Cummings, Raymond, 1A ..... Byers
Cummings, Robert, 1E ..... Greenville
Cunningham, Cora Nell, 2H ..... Littlefield
Cupp, Eugene, 1A ..... Earth
Cupp, Olen, 2A ..... Earth
Currey, Hillard, 2G ..... Wilson
Currey, Jake Lee, 1E ..... Wilson
Currin, Travis, 1E ..... Bonham
Curry, Ernest, 4S ..... Haskell
Curry, Jimmy, 2E ..... Dalhart
Custard, Richard L., 2E ..... Cleburne
Dacus, Jack, 1G ..... Whitedeer
Dainton, William, 1E ..... Kiowa, Kansas

Dale, Edwin, 1E ..... Henrietta
Dallam, Mary, 2G ..... Dallas
Dallas, Frank, 1E ..... Houston
Dalmont, Hardy, 1A ..... Seminole
Dalmont, Pauline, 2G ..... Seminole
Damron, Doris, 2G ..... Crane
Daniel, Arthur, 3S ..... Marie
Daniel, Charles L., 1G ..... Mineral Wells
Daniel, Clifton, 1B ..... Goodlett
Daniel, Homer, 1E ..... Ballinger
Daniel, Lois Marie, 4G ..... Lubbock
Daniel, Mary Katherine, 1B ..... Floydada
Daniell, Chas. B., 2S ..... Seminole
Danner, Juston, 3A ..... Farwell
Dansby, C. E., 1E ..... Valley Mills
Dansfield, Bill, 1G ..... Abernathy
Darnell, Chas., 2E ..... Okmulgee, Okla.
Daugherty, Olive, 3G ..... Pampa
Davenport, Anna Kathryn, 1B .... Memphis
Davenport, Jane, 3G ..... Dallas
Davenport, Tom, 1E ..... Eastland
Davidson, Ann, 2G ..... Lubbock
Davidson, Eugene, 1E ..... Abernathy
Davidson, Glenn, 2E ..... Abernathy
Davidson, Harold, 1G ..... Dallas
Davidson, Joe, 2B ..... Lubbock
Davidson, Martha, 1G ..... Levelland
Davidson, Paul, 1E ..... Amarillo
Davies, Bernice, 3G ..... Lubbock
Davies, Eulalee, 1B ..... Southland
Davis, A. B., Jr., 2B ..... Lubbock
Davis, Cleo, 1G ..... Floydada
Davis, Dora Baker, 4Ed ..... Dimmitt
Davis, Foy, 2B ..... Sulphur Springs
Davis, Geraldine, 2B ..... Lubbock
Davis, Glenn, 1S ..... Pampa
Davis, Jacqueline, 1G ..... Lubbock
Davis, James, 1E ..... Sweetwater
Davis, Jewell, 4Ed ..... Lubbock
Davis, Jimmie, 1E ..... Dallas
Davis, Molly L., 3G ..... Lubbock
Davis, Nancy Inez, 3G ..... Lubbock
Davis, Ouida, 4Ed ..... South Bend
Davis, Robert H., 2A ..... Post
Davis, R. J., 4E ..... Roaring Springs
Davis, Roy, 3B ..... Sulphur Springs
Davis, Sol, 1A ..... Post
Davis, Wade, 4A ..... Hale Center
Davis, William D., 3B ..... Grapevine
Davison, T. S., 1G ..... Borger
Daviss, Sara, 1G ..... Lubbock
Dawdy, Alpha, 2E ..... Idalou
Dawley, James, 1E ..... Abilene
Dawson, Chas. W., 1E ..... Lubbock
Dawson, Edwin, 1A ..... Tulia
Dawson, Floyd, 1B ..... Bells
Dawson, Julian, 1A ..... Bells
Dawson, R. B., Jr., 2A ..... Tulia
Day, Ann, 2B ..... Claude
Day, Bill, 2A ..... Waco
Day, Dorothy, 4B ..... Claude
Day, Fred, 4A ..... Waco
Day, Glenn M., 1E ..... Lubbock
Day, Hazel, 2Ed ..... Brownfield
Day, James, Jr., 1E ..... Lubbock
Day, James Woodie, Jr., 3A .... Plainview
Day, Leonard, 1E ..... Lubbock
Dean, Coy W., 4B ..... Anson
Deats, Hollis, 3E ..... Christoval
Deats, Robert W., 1G ..... Graham
Deaver, Cora Lee, 1B ..... Lubbock
DeBusk, Monroe, 1S ..... Idalou
DeFee, Roland, 4A ..... Ralls
Defenbaugh, Margaret, 3G ..... Amarillo
Deinken, Herman, 2A ..... Amistad, N. M.
Delahunty, Jack W., 1G ..... Lubbock
DeLane, Mary, 3Ed ..... Breckenridge
DeLong, Nell, 1B ..... Mertzon
Dement, Ernest, 3E ..... Plainview
Dement, Ray, 2E ..... Leonard
Dempster, Louise, 2Ed ..... Hamilton
Denison, C. W., 1A ..... Floydada
Denman, Billie, 1G ..... Lubbock
Dennis, Elson, 4E ..... Lubbock
Dennison, B. H., Jr., 2E ..... Amarillo
Denton, Bessie, 4Ed ..... Carter, Okla.
Denton, Dolores, 1G ..... Dennison
Dettle, Jack, 1E ..... Stratford
Devin, Albert, 1A ..... Tulia
Devin, Delbert L., 1A ..... Tulia
Devin, Thomas L., 3A ..... Tulia
Dickason, Bob, 4G ..... Wink
Dickerson, Wilma, 4G ..... Lubbock
Dickson, James, 1A ..... Ropesville
Dickson, Joe A., 3E ..... Borger
Dickson, Mona, 1B ..... Borger
Dickson, S. Claude, 1G ..... Bovina
Dickson, Wilson L., 3G ..... Lubbock
Diggs, Mary Eleanor, 3H ..... Haskell
Dillard, Catherine, 2G ..... Ft. Worth
Dines, Dorothy Mae, 3G ..... Ft. Worth
Dingus, G. W., 4E ..... Munday
Dismuke, Stewart, 1S .... Steamboat Sprinks, Colo.
Dodd, Bill, 2B ..... Sherman
Dodds, Cecil, 1E ..... Decatur
Dodge, Jeanetta, 1H ..... Big Spring
Dodson, Billie Jo, 1B ..... Chillicothe
Dodson, Oscar H., 1B ..... Chillicothe
Dodson, Romayne, 4Ed ..... Chillicothe
Doherty, Donald, 4B ..... Lubbock
Donaldson, H. Edwin, 3E ..... Lubbock
Donelson, Edward, 1G ..... Lubbock
Donelson, Martha Jane, 2B ..... Amarillo
Donelson, Sue, 3B ..... Amarillo
Donnell, Riley, 1E ..... Dallas
Donnell, Walldeen, 1B ..... Mexia
Dorenfield, Lutetia, 2Ed ..... Amarillo
Dorough, Tom, 4A ..... Mabank
Doshier, Achille, 2E ..... Amarillo
Doss, Eleanor, 3H ..... Bonham
Doss, Elizabeth, 3H ..... Bonham
Doss, Scott, 4A ..... Seminole
Doty, William J., 4E .... Monument, N. M.
Douglass, Tom, 2E ..... Corpus Christi
Douthit, Eva, 4G ..... Tahoka
Douthit, Frances, 2H ..... Mertzon
Dover, Wade, 3B ..... Commerce
Dowda, Dick Waldorene, 1S ..... Cisco
Dowdy, Eugene, 1E ..... Idalou
Dowdy, Ross Wayne, 4E ..... Hart
Dowell, Erlene, 1H ..... Quail
Dowell, Harlan, 1E ..... Royse City
Dowell, Kenneth, 2E ..... Royse City
Dowell, Robert, 4B ..... Childress
Doyle, Joe L., 2A ..... Shallowater
Dozier, Cledith, 2H ..... Sylvester
Dozier, Elton B., 1E ..... Midland
Drake, Cleve, 1E ..... Pampa
Drake, Joe, 4E ..... Brownwood
Drake, Robert, 1B ..... Pampa
Draper, Jeanne, 3B ..... Breckenridge
Draper, Jeanne H., 2E ..... Memphis
Dreyer, Birdie, 1Ed ..... Wilson
Driskill, Jack Lee, 2Ed ..... Flomot
Droppleman, John Paul, 1S ..... Midland
Drumheller, Myra, 2G ..... Whiteface
Dryden, Benjamin Fred, 5G .. Cincinnati, Ohio
Dryden, Ellen Jane, 2S .... Cincinnati, Ohio
Dryer, Hugh C., 1E ..... Lubbock
Duckworth, Donna., 3H ..... Lubbock
Duckworth, Helen, 1Ed ..... Loving
Dudley, Mrs. Kathleen, 3H ..... Lubbock
Duff, I. J., Jr., 3A ..... Weinert
Duff, Ronald, 3E ..... Hillsboro
Duggan, Elois, 3H ..... Nocona
Dukeminier, Dorris, 1B ..... Amarillo
DuLaney, Bowen, 1E ..... Stinnett
Dulaney, Eugene, 3S ..... Lubbock
Dulaney, Ruby, 4B ..... Lubbock
Duncan, C. Van, Jr., 1E ..... Osborn, Mo.
Duncan, George, 3A ..... Lefors
Duncan, Robert, 2G ..... Henderson
Duncan, Ruby, 2H ..... Muleshoe
Dunford, Joyal, 1A ..... Grady, Okla.
Dunigan, Boyce, 3B ..... Ft. Worth
Dunlap, Peggye, 2Ed ..... Midlothian
Dunlap, Wanda Welch, 1H ..... Lubbock
Dunlap, Wm. Dean, 2G ..... Hereford
Dunlop, Harlan, 1A ..... Lubbock
Dunlop, Iris, 4G ..... Lubbock
Dunn, Monroe, 3B ..... Crosbyton
Dunn, Nellie Jo, 1H ..... Lubbock
DuPree, Gene, 1S ..... Wink
DuPuy, W. Maurice, 1E ..... Mexia
Durham, Annie, 1H ..... Aspermont
Durham, Neil, 2B ..... Lubbock
Dvoracek, Charles F., 3A ..... West

Duval, George, Jr., 3B ..... Lubbock
Dyar, Charles, 1S ..... Sweetwater
Dyer, Conrad D., 1A ..... Springlake
Dyer, J. H., 1A ..... Tahoka
Dyer, Ronald, 3B ..... Stephenville
Dysart, Cabot, 1E ..... Amarillo
Dysart, Virginia, 1G ..... Dallas
Eades, Alma Rhea, 3H ..... Lubbock
Eagan, Buford, 1B ..... Olney
Earl, Mary A., 1G ..... Peacock
Early, Vera, 2G ..... Hermleigh
Easterwood, James Hardin, 2S ..... Lamesa
Easterwood, John Edwin, 2E ..... Lamesa
Eaton, Nola Fern, 1B ..... Lubbock
Echols, Cornelia, 1B ..... Megargel
Eden, Alvin, 2A ..... Rocky, Okla.
Edgar, George Verlon, 2S ..... Whitharral
Edler, Gerald, 3G ..... Crosbyton
Edwards, Charles, 4B ..... Anson
Edwards, Roy G., 1G ..... Olton
Edwards, Thomas, 2B ..... Lubbock
Edwards, Vernon, 1S ..... Goldsmith
Eger, Leroy, 2B ..... Lubbock
Eggink, Gerrit, 1E ..... Denver City
Ehlinger, Lucille, 3G ..... McAllen
Eiland, Bill, 1S ..... Lamesa
Eiland, Maxine, 1S ..... Munday
Eiland, Peggy, 1H ..... Lamesa
Elder, Harold, 1E ..... Cuero
Elder, Henry, 5A ..... Cuero
Elkins, C. H., 5S ..... Lubbock
Elkins, Van J., 1E ..... Richland
Elle, George O., 5A .... Milwaukee, Oregon
Ellington, Evelyn, 2E ..... Bledsoe
Ellington, George, 2A ..... Mt. Dora, N. M.
Elliott, Beatrice, 3H ..... Anton
Elliott, Bill, 1G ..... Eunice, N. M.
Elliott, Don, 2A ..... Anton
Elliott, Glenn, 1A ..... Albany
Elliott, Roy, 2B ..... Dumas
Elliott, Zelma, 3H ..... Mobettie
Ellis, Charles B., 2E ..... Ft. Worth
Ellis, Christopher, 1E ..... Carlsbad, N. M.
Ellis, Eugene, 1G ..... Anton
Ellis, James, 4B ..... Greenville
Ellis, Lewis, 1B ..... Lubbock
Ellis, Willie Lou, 2G ..... Lorenzo
Ellison, Clara Lorene, 2H ..... Aspermont
Ellison, Mary Grace, 3G ..... Lubbock
Elmore, Laura Jean, 2G ..... Borger
Elms, James Edward, 1B ..... Sudan
Ely, John Omar, 1E ..... Monahans
Elza, Jewel, 1A ..... Floydada
Embry, Eula, 4Ed ..... Abernathy
Emery, Frances, 2G ..... Lubbock
Emmitt, Dorothy Lou, 1H ..... Tulia
Emmitt, John, 1E ..... Tulia
English, Nelson, 4E ..... Lubbock
Enloe, James, 1E ..... Burkburnett
Ercanbrack, Ida Love, 1G ..... Lubbock
Ernest, Arthur, 3B ..... Dallas
Erwin, Elvis, 1A ..... Anton
Esmond, Thomas Marlon, 1E ..... Ballinger
Estes, Bengy, 1B ..... Memphis
Estes, Edwin, 1G ..... Quanah
Estes, Vernon, 1A ..... Rockwood
Estes, W. C., 1G ..... Lubbock
Estes, Winston M., 1G ..... Quanah
Etter, Gates, 1B ..... Littlefield
Etter, Pat, 1B ..... Shamrock
Etter, Varina, 5G ..... Littlefield
Eubank, Geneva, 1B ..... Idalou
Eubank, Hulon, 1E ..... Lubbock
Eubank, Louis, 4S ..... Truscott
Eubank, Zelda, 1B ..... Idalou
Eubanks, Aubrey, 2B ..... Breckenridge
Eubanks, Dale, 1G ..... Breckenridge
Eudy, Emogene, 2B ..... Morton
Evans, Anna Lois, 1H ..... Idalou
Evans, A. R., Jr., 2E ..... McLean
Evans, Evelyn, 1G ..... Idalou
Evans, Franklin, 1A ..... Swearingen
Evans, Gladys Marie, 2Ed .... Shallowater
Evans, Harold, 3E ..... Ft. Worth
Evans, J. C., 1B ..... Mertzon
Evans, Leroy, 4E ..... Hagerman
Evans, Lloyd, 1B ..... McLean
Evans, Mary Helen, 1B ..... Mertzon
Evans, Thomas Weldon, 2B .....Lubbock
Evans, Wilbur, 1E ..... Dallas
Evans, Winfield, 1G .... Los Angeles, Calif.
Everett, Jack, 1G ..... Texarkana
Evins, Fern Irene, 3G ..... Sudan
Ezell, R. B., 3A ..... Farwell
Fagans, Charles, 2G ..... Pampa
Fair, Charles, 2E ..... Odessa
Fairley, George Gladwin, 4E ..... Denison
Falls, Delbert, 1E ..... Littlefield
Farmer, Frank, 1E ..... Odessa
Farmer, Marsh, 4A ..... Ft. Worth
Farnsworth, Lloyd W., 2E ..... Amarillo
Farr, Billy, 1A ..... Collinsville
Farr, F. L., 3S ..... Hermleigh
Farr, Joe B., 4A ..... Hermleigh
Farrar, Opal, 1B ..... Lubbock
Farrell, Twila, 3G ..... Muleshoe
Farrington, Harry, 1E ..... Ralls
Farris, Garland, 1A .....Sallisaw, Okla.
Farris, J. C., 2E ..... Iowa Park
Farris, Nell, 1B ..... Crosbyton
Farrow, Jack, 1G ..... Hamlin
Faulkner, Rex, 4A ..... Phoenix, Ariz.
Faver, Ralph, 4A ..... Groveton
Favor, Bill, 1G ..... Crowell
Feece, Molly Anna, 1G ..... Lubbock
Feeser, John, 1E ..... Dallas
Feigenspan, Dennis, 1E ..... Roxana
Feller, Norman, 3E ..... Borger
Felts, Bobbie, 2G ..... Kirkland
Feltz, Charles, 4E ..... Dumas
Fergeson, Genevieve, 3G ..... Crowell
Ferguson, Louise, 1H ..... McCaulley
Ferguson, Patsy, 1G ..... Handley
Fernandes, Waddell, 1S ..... Odessa
Fewell, Nancy, 3G ..... Dallas
Fields, Wallace, 4S ..... Shamrock
Finch, Frances Joyce, 3B ..... Amarillo
Findley, Judy, 1S ..... Hale Center
Fine, Earl, 4A ..... Slaton
Finley, Bennie, 1E ..... McLean
Finley, Fred, 1B ..... Meadow
Finnell, John W., 4B ..... Holliday
Finnell, Wayne, 1B ..... Holliday
Finney, Hershel, 3E ..... Perryton
Fish, Hughes, 3A ..... Swearingen
Fisher, A. Frank, 4G ..... Electra
Fisher, Anna Lee, 4S ..... Petersburg
Fisher, David, 2G ..... Wichita Falls
Fisher, Ernest Lynn, 1E ..... Mullin
Fisher, Florence, 1G ..... Petersburg
Fisher, Willie Mike, 1A ..... Hale Center
Fisk, Martha, 1G ..... Amarillo
Fitzgerald, Glenn, 1E ..... Sweetwater
Flake, Jack, 1B ..... Lubbock
Flanary, L. M., 4S ..... Houston
Flaniken, Kathleen, 3S ..... Rogers
Flatow, Yedda, 4A ..... Pampa
Flenniken, Gordon, 1G ..... Lubbock
Flowers, Herbert, 1A ..... Jacksboro
Floyd, Ermadel, 1G ..... McLean
Floyd, R. L., 2G ..... McLean
Flusche, Raymond, 3Ed ..... Electra
Flynt, Bill, 1E ..... Ft. Stockton
Foerster, Homer, 2G ..... Vernon
Foerster, Leroy, 1E ..... Vernon
Foley, William V., 1E ..... Gouldbusk
Folk, Elmer E., 1B ..... Marlin
Foncannon, Gareld, 3E ..... Mercedes
Foote, Joe Reeder, 4S ..... Roscoe
Foote, Norman C., 3E ..... Longview
Foote, Obed, 1B ..... Petersburg
Forbis, Allen C., 3G ..... Lubbock
Forbis, Dorothy Margaret, 3G .. Wellington
Forbis, Stafford, 2A ..... Lubbock
Forbis, Wilma Ruth, 1G ..... Wellington
Ford, Bessie Lee, 3H ..... Lubbock
Ford, Byron, 1E ..... Sudan
Ford, Henry, Jr., 1E ..... Lockney
Ford, Howard, 1B ..... Midland
Ford, Mart, 1A ..... Ralls
Ford, Roxana Ruth, 5H ..... Lubbock
Foreman, Nadien, 2H ..... Spur
Forman, Vernon, 1A ..... Anton
Formby, Robena, 1H ..... McAdoo
Formway, Forrest, 1E ..... Roby
Forrest, Edwin L., 3B ..... Lamesa
Forrest, Sallie Lynn, 1B ..... Plains
Fort, Jo Jean, 1H ..... Matador

Fortenberry, Albert, 1B ..... Lubbock
Foster, B. R., Jr., 1B ..... Goodlett
Foster, C. A., Jr., 1B ..... Roswell, N. M.
Foster, Chilton, 1G ..... Lubbock
Foster, Dorothy Sue, 1H ..... Slaton
Foster, Hardy Eddins, 1S ..... Dickinson
Foster, James H., 4S ..... Ft. Smith, Ark.
Foster, Joe Bob, 1G ..... Lubbock
Foster, Kathryn Ann, 4G ..... Kermit
Foster, Lois Ilene, 1H ..... Pampa
Foster, Louise, 2H ..... Lamesa
Foster, Reynolds, 1A ..... Sterling City
Foust, Ruth Elise, 2G ..... Wheeler
Fouts, George, 2G ..... Haskell
Fouts, John E., Jr., 2A ..... Haskell
Fouts, Mildred, 4Ed ..... Rule
Fowler, Anis, 4B ..... Silverton
Fowler, Ira, 3E ..... Jacksboro
Fowler, Leon, 1E ..... Lakeview
Fowler, Merle O., 4A ..... Happy
Fowler, T. B., Jr., 1S ..... Ft. Stockton
Fowler, Wilson, 2E ..... Wichita Falls
Fox, Elizabeth, 4G ..... Lubbock
Foy, J. A., 1A ..... Petersburg
Foy, Lova Mae, 1G ..... Sweetwater
Francis, Claude, 4B ..... McKinney
Franks, James Lee, 1S ..... Houston
Franks, Vernene, 4G ..... Wellington
Frazier, Reginald, 1G ..... Tahoka
Fred, Narvil, 1E ..... Levelland
Frederick, George Edward, 2E ..... Dalhart
Freeman, Joe, 1G ..... Amarillo
Freeman, John C., 1G ..... Lubbock
Freshour, Luther, 1S ..... Rule
Fry, Marilynn, 4Ed ..... Floydada
Frye, Louise, 3G ..... Hereford
Fuchs, Lillie Marie, 4B ..... Abernathy
Fuessel, Irene, 1H ..... Eola
Fugate, Martha Sue, 2B ..... Lubbock
Fuquay, Garth, 4E ..... Mt. Vernon
Fulford, Johnnie Lou, 3G ..... Lubbock
Fulghum, Harold, 2S ..... Terrell
Fulghum, Martha, 1S ..... Borger
Fullagar, Mary Lee, 3G ..... Lohn
Fullaway, Richard, 1S .... Los Angeles, Calif.
Fullaway, Robert W., 1E,.. Los Angeles, Calif.
Fullbright, Patsy, 2H ..... Smithville
Fuller, Bill, 1E ..... Ft. Worth
Fuller, Evelyn, 1G ..... Ft. Worth
Fuller, Jerrell, 1A ..... Clyde
Fuller, Varian Jay, 2E ..... Hereford
Fuller, Verda Mae, 1Ed ..... Jayton
Fulton, Geraldine, 1G ..... Lubbock
Fulwiler, Wallis, 1E ..... Lubbock
Furgeson, Lillian, 1G ..... Lubbock
Furr, Nita, 1B ..... Borger
Furrh, Keith Louise, 1H ..... Stamford
Gage, Dwight, 1A ..... Lubbock
Gaignat, Charles, 1E ..... Tahoka
Gaines, Jimmie W., 4E ..... Bronte
Gaither, Mary, 3G ..... Ft. Worth
Gamble, J. W., 3G ..... Lubbock
Gamblin, Geraldine, 2H ..... Floydada
Gammill, Calloway, 2B ..... Lubbock
Gant, Alice Arlene, 1Ed ..... Slaton
Gardner, Tom J., 1S ..... Plainview
Garland, Robert B., 1B ..... Slaton
Garner, Carl Raymond, 3E ..... Dalhart
Garner, Pruett, 2E ..... Dalhart
Garrard, Sam, 1S ..... Tahoka
Garrett, C. L., 1E ..... Ft. Stockton
Garrett, Willie Bell Sue, 1B ..... Irving
Garrison, Etola, 4H ..... Idalou
Garrison, Lorena, 4G ..... Houston
Garrison, Shirley, 4A ..... Idalou
Garrison, Winford Scott, 2G ..... Lubbock
Garsek, Isadore, 4G ..... Des Moines, Iowa
Gary, Earnestene, 3H ..... Petersburg
Gary, Frances, 1G ..... Ft. Worth
Gathing, Emma, 3H ..... Roscoe
Gathing, Lucy Ellen, 2G ..... Roscoe
Gauntt, J. L., 1E ..... Vernon
Gause, Eugene Lee, 2E ..... Lubbock
Gay, Frank, 2E ..... Lubbock
Gayler, Mildred, 1H ..... Tulia
Geary, John C., 4A ..... Dumas
Geddes, Gordon, 1B ..... Midland
Geer, Lewis, 1E ..... Joinerville
Geldmeier, Bernhardt, 2E ..... Appleby
Gelin, Carl, 1E ..... Lubbock
Gelin, Leona, 5G ..... Lubbock
George, J. Jerome, 4S ..... Lubbock
George, Leland, 2S ..... Lubbock
George, Louise, 2G ..... Lubbock
George, Morrine, 1S ..... Lubbock
George, Wm. T., 3E ..... Roby
Germond, Kenneth W., 4S ..... Dallas
Geron, A. J., 3A ..... Littlefield
Geron, Nelson, 1A ..... Roscoe
Gerrells, Collin, 1G ..... Carlsbad, N. M.
Ghetion, Myron, 4G ..... Lubbock
Gholson, Elsie, 3H ..... Haskell
Gibbs, Anna Lee, 1H ..... Delwin
Gibbs, Irby, 1B ..... Teague
Gibbs, James, 1A ..... Floydada
Gibson, Anna Burt, 1H ..... Lubbock
Gibson, Cornita, 1H ..... Lubbock
Gibson, Elaine, 2G ..... Petersburg
Gibson, Frances, 1B ..... Spur
Gibson, George, 2E ..... Childress
Gibson, Kenneth, 2A ..... Paducah
Gibson, Marshall, 2B ..... Snyder
Gibson, Robert H., 4A ..... Lubbock
Giffin, Ray, 3A ..... Mountain View, Calif.
Gilbert, Bob Francis, 1E ..... Wellington
Gilbert, J. B., 2G ..... Cameron
Gilbert, W. B., 1B ..... Flomot
Gilbreath, Owen, 1G ..... Ralls
Giles, Frances, 5S ..... Amarillo
Giles, Jack, 1S ..... Lubbock
Giles, Mauryce, 4G ..... Tahoka
Giles, Truett, 1E ..... Tahoka
Gill, Joyce, 4H ..... Levelland
Gill, Preston, 1A ..... Groom
Gill, Quentin, 1E ..... Silverton
Gill, Walter, 2A ..... Roswell, N. M.
Gillean, Elwood, 1E ..... Lubbock
Gillespie, Allie Ruth, 1G ..... Crosbyton
Gillespie, Harold, 1E ..... Lubbock
Gillespie, John, 4B ..... Morse
Gilley, T. L., Jr., 3G ..... Whitehouse
Gillham, Millard, 2A ..... Hughes Springs
Gillum, Surry H., 1B ..... Hermleigh
Gilmore, Lloyd, 1G ..... Shamrock
Ginn, Guy W., 4E ..... Lubbock
Gist, Byron, 3A ..... Amarillo
Gist, George Weimhold, 2G ..... Sudan
Glasgow, Raymond, 1B ..... Henrietta
Glass, Eppright, 1A ..... Lubbock
Glass, King I., 5E ..... Sweetwater
Glass, Raymond, 4E ..... Amarillo
Glazner, Burt B., 3S ..... Anson
Glenn, Nora, 1G ..... Wellington
Glenn, Virginia, 3G ..... Wellington
Gloyna, Earnest, 2E ..... Thalia
Gober, A. Webb, 3A ..... Farwell
Fober, Frank, 3H ..... Farwell
Goble, C. L., 1A ..... Swearengin
Goddard, Mary Jane, 1Ed ..... O'Donnell
Godfrey, Elwanda, 2H ..... Roaring Springs
Godfrey, Floyd Wilson, 4B ..... Gladewater
Godfrey, Jane, 4H ..... Spur
Godfrey, Reba Dee, 1G ..... Dallas
Goins, Mary Frances, 2H ..... Burkburnett
Goins, Wendell, 1A ..... Burkburnett
Golden, Richard, 1S ..... Monahans
Gollihar, Charles, 2S ..... McAdoo
Gomez, C. Luis, 1Ed ..... Carrizo Springs
Goode, Billy, 1E ..... Goree
Goodloe, Jo Bess, 1H ..... Mt. Calm
Goodpasture, Maurice, 3G ..... Levelland
Goodrich, Raymond, 2G ..... Amarillo
Goodson, Bob, 4E ..... Lubbock
Goodson, Nina, 4B ..... Lubbock
Goodwin, Eugene, 2E ..... San Antonio
Goodwin, Opal, 3Ed ..... Borger
Goodwin, Mrs. Robert, 2B ..... Lubbock
Gorder, John, 1S ..... Greybull, Wy.
Gordon, Betty Alice, 4G ..... Lubbock
Gordon, Crayton, 1G ..... Lubbock
Gordon, Frances, 1G ..... Anson
Gordon, Jack, 1A ..... Lubbock
Gordon, Mary Lou, 3G ..... Slaton
Gore, Doris Lee, 2G ..... Brownfield
Gossett, Wm. Adair, 1B ..... Lubbock
Gouldy, Jean, 1B ..... Plainview
Gowan, C. R., 1G ..... Memphis
Gowen, Arlee, 1G ..... Lamesa

Gowin, Juanita, 1B ..... Lubbock
Gracey, Marie, 2Ed ..... Brownfield
Gracey, Rudolph, 1E ..... Brownfield
Graham, Geneva, 1B ..... Lubbock
Graham, James, 2S ..... Sweetwater
Graham, Joe, 1E ..... Spur
Graham, John A., 1S ..... Farwell
Graham, Loraine, 1B ..... Lubbock
Graham, Orval, 2G ..... Quitaque
Granberry, Herman, 4E ..... Mt. Calm
Granberry, Hugh, 3E ..... Mt. Calm
Graves, Betty, 1H ..... Sweetwater
Graves, Charles, 1E ..... Anson
Graves, Frances, 1B ..... Guthrie
Graves, Jean Camille, 2H ..... Crowell
Graves, La Merle, 3H ..... Garrison
Graves, Lois, 1Ed ..... Idalou
Gray, Harry W., 1S ..... Houston
Gray, Herbert M., 3E ..... Shallowater
Gray, Murray, 4S ..... Snyder
Gray, Ruby Lee, 4H ..... Tahoka
Graydon, Frank, 2B ..... Lubbock
Grayum, Pete, 2E ..... Paducah
Grebing, Henry J., Jr., 1E ..... Menton
Green, Alma Fern, 4G ..... Brownfield
Green, Clovis, 4E ..... Lubbock
Green, David, 3S ..... Gainesville
Green, E. J., 1G ..... Lamesa
Green, Elizabeth, 4G ..... Mobeetie
Green, Frank J., 3A ..... Littlefield
Green, Lorene, 3H ..... Bridgeport
Green, Tom, 4A ..... Albany
Greene, Charles R., Jr., 1E ..... Dallas
Greene, Everett, 1A ..... Spearman
Greene, Geral, 3G ..... Lubbock
Greene, Johnnie Lee, 1B ..... Snyder
Greer, Agnes Pauline, 4Ed ..... Stephenville
Greer, Dan Geraldine, 1Ed ..... Lubbock
Greer, Joyedene, 2H ..... Carbon
Gregg, Allison Gail, 1B ..... Borger
Gregg, Guion, Jr., 4E ..... Dallas
Gregg, John Henry, 3G ..... Athens
Gregory, Boyd, 4A ..... Idalou
Gregory, Hayden, 3E ..... Lubbock
Gregory, John Henry, 1B ..... Slaton
Gregory, Howard, 1A ..... Lubbock
Gresham, Frankie, 3H ..... Newlin
Gresham, Mary, 2H ..... Newlin
Grider, Arthur P., Jr., 1 G..... Leonard
Griffin, Eddie, 2E ..... Childress
Griffin, Etchel Earl, 3E ..... Childress
Griffin, Irma, 2H ..... Childress
Griffin, Joe, 1E ..... Kilgore
Griffin, Ruth, 2H ..... Littlefield
Griffin, William, 2A ..... Sylvester
Griffith, Wilma, 2H ..... Lockney
Grigg, Jack, 3E ..... Tulia
Griggs, Barbara, 1G ..... Wink
Griggs, C. J., 2E ..... Lubbock
Griggs, Virgie Mae, 1G ..... Lubbock
Grimes, Betty, 3G ..... Merkel
Grimes, Lester, 2B ..... Lubbock
Grisham, Rufus, Jr., 2B ..... Abilene
Grissom, Kenneth, 3A ..... Farwell
Grissom, Minnie Kate, 1H ..... Littlefield
Griswold, Jack, 1G ..... Shamrock
Gross, Lanis, 3B ..... Tahoka
Groves, Elton, 1A ..... Benjamin
Gruben, Bill, 1G ..... Spur
Grundy, Edward, 3E ..... Quitaque
Guess, Leverett, 1S ..... Lubbock
Gulledge, Mary Nelle, 4B ..... Lubbock
Gulledge, Tom, 1E ..... Abilene
Gunter, Henry, 4B ..... Conway
Gunter, Mary Kathryn, 4H ..... Conway
Gunter, Nat, 2E ..... Balmorhea
Haberer, Elsie, 2B ..... Muleshoe
Hacke, Bailey, 2E ..... Tomba'l
Hackler, Lee, 3G ..... Lubbock
Haddick, Edith, 1E ..... Petersburg
Haddock, Warren, 2A ..... Lubbock
Haddon, Joe, 4G ..... San Angelo
Hadley, Walter, 4A ..... Farwell
Haffey, Betty Jean, 2H ..... Lubbock
Hahn, Lloyd, 2A ..... Lamesa
Hailey, Buford, 2A ..... Red Springs
Halamicek, Wandine, 1G ..... San Angelo
Halbert, Kenneth, 1A ..... Foard City
Hale, Eva Nell, 1B ..... Kalgary
Hale, Jane, 3S ..... Ft. Worth
Hale, J. S., 2A ..... Floydada
Hale, Leon, 1G ..... Lubbock
Hale, Tom, Jr., 1G ..... Tahoka
Haley, Duane, 2E ..... San Angelo
Hall, Albert Thomas, 1S ..... Lubbock
Hall, Gladys, 4G ..... Lubbock
Hall, J. A., Jr., 1E ..... Lubbock
Hall, Jack, 1E ..... Waka
Hall, Jack C., 1G ..... Quitaque
Hall, John, 1B ..... Lubbock
Hall, Robert, 1A ..... Quitaque
Hall, Sarabel, 2B ..... Ft. Sumner, N. M.
Hall, Sara Nell, 3H ..... Sweetwater
Hall, Virginia Millard, 5H ..... Lubbock
Hall, Wayne, 3E ..... Quitaque
Hallmark, Edwin, 4E ..... Loraine
Hallmark, Lelia May, 3Ed ..... Lubbock
Halsell, Ed, 2E ..... Lubbock
Halsey, Arnette, 1G ..... Lubbock
Halsey, James, 3S ..... Plainview
Halsey, Ray E., 4E ..... Plainview
Hamill, Christine, 2G ..... Lubbock
Hamilton, Charles, 1S ..... Brownfield
Hamilton, Frances, 3B ..... San Angelo
Hamilton, James, 3G ..... Lubbock
Hamilton, James Reece, 3B ..... Electra
Hamilton, Margaret, 2E ..... Lubbock
Hamilton, Margie, 1H ..... Colorado City
Hamilton, Roy E., 3G ..... Paducah
Hamlet, Jim, 2B ..... Coffeyville, Kan.
Hamm, Bill, 3E ..... Austin
Hammonds, Gloria, 1G ..... Floydada
Hammonds, Ralph, 1B ..... Floydada
Hampton, Frances, 3B ..... Pampa
Hampton, Frances Beth, 1B ..... Plainview
Hamrick, J. Quenton, 1A ..... Colorado City
Hancock, Billy, 2A ..... Tahoka
Hancock, Jack, 4A ..... Tahoka
Handlin, Clifford, 1B ..... Monahans
Handlin, Keith, 1A ..... Gruver
Hands, Raymond, 1B ..... Ft. Worth
Hanes, L. C., 2S ..... Wink
Haney, Gerald, 1B ..... Snyder
Hankins, Lois Mildred, 2H ..... Lubbock
Hankins, Mildred Mitchell, 2B .... Lubbock
Hanshu, Carl, 2A ..... Darrouzette
Hanshu, Helen, 4H ..... Darrouzette
Hanson, Howard H., 3A ..... Water Valley
Harber, Gerald, 1E ..... Abilene
Harbin, J. B., 2A ..... Levelland
Harbinson, Roburta, 1G ..... Lubbock
Harbour, Gaston, 1S ..... Pampa
Hard, Laura, 4H ..... Shallowater
Hardberger, Billy, 2B ..... Lubbock
Hardcastle, Hazel Bernice, 1H ..... El Paso
Harder, Elizabeth, 2B ..... Plainview
Hardin, Neil, 1B ..... Pettit
Harding, John, 5B ..... Lubbock
Harding, G. W., 3A ..... Byers
Harding, Kathryne, 2Ed ..... Byers
Hardy, Douglas, 1S ..... Lubbock
Hardy, H. L., 4E ..... Throckmorton
Hardy, Mary, 2G ..... Childress
Hardgrove, Robert, 1A ..... Roby
Harlan, J. Reginald, 2B ..... Littlefield
Harless, Nova Louise, 1G ..... Baileyboro
Harman, Dean, 5A ..... Claude
Harman, Harlan, 1E ..... Winters
Harmon, Victor L., 5A ..... Silverton
Harmon, Katherine, 1H ..... Lubbock
Harmon, Lawrence G., 5A ..... Lubbock
Harmon, Phillip, 4Ed ..... Lubbock
Harmonson, Peter C., 2E ..... Big Spring
Harp, J. W., 4S ..... Abernathy
Harper, Clarence, 4B ..... Lubbock
Harper, Elizabeth, 4E ..... Lubbock
Harper, Eugenia, 2G ..... Lubbock
Harper, Merrell, 1E ..... Lubbock
Harper, H. C., 1A ..... Lubbock
Harper, Sidney, 1A ..... Floydada
Harrell, Fleda, 3G ..... Lubbock
Harrell, John Neill, 1A ..... Lubbock
Harris, Claude, 3A ..... Roby
Harris, Dorothy, 2H ..... Lubbock
Harris, Ed, 1A ..... Farmersville
Harris, Edward L., 1B ..... Tulia
Harris, Fanibeth, 2G ..... Garland
Harris, Francis, 2E ..... Snyder, Okla.

Harris, Geraldine, 1H ..... Eastland
Harris, Herman, 3A ..... Dublin
Harris, Jack, 3A ..... Haskell
Harris, Leon, 3G ..... McCamey
Harris, L. G., 4E ..... Friona
Harris, Louvain, 1Ed ..... Burkburnett
Harris, Marguerite, 2B ..... Lubbock
Harris, Marvin, 1E ..... Tulia
Harris, Mary Margaret, 1G ..... Ozona
Harris, Noble J., 1B ..... Meadow
Harris, Richard C., 3B ..... Ralls
Harris, Silva, 1B ..... Ackerly
Harris, Sybil, 2H ..... Abilene
Harris, T. J., 4G ..... Lubbock
Harris, Weldon, 1E ..... Melvin
Harrison, Jimmy, 1A ..... Colorado City
Hart, Jack, 1E ..... Ranger
Hartgrove, Harvey, 3B ..... San Angelo
Hartley, Cala Rose, 2G ..... Lometa
Hartwell, Jeannette, 1B ..... Bovina
Hartzog, Bernice, 2H ..... Farwell
Harvel, Hoyt R., 3A ..... Hale Center
Harvey, Billy, 1A ..... Lubbock
Harvey, Eugene M., 2E ..... Waco
Harvey, Floyd, 1A ..... Hillsboro
Harvey, Mrs. June, 4H ..... Shamrock
Harvey, Ora Mae, 4G ..... Shamrock
Harvey, Owen, 4A ..... Shamrock
Haseloff, Dolores, 4H ..... Dallas
Hash, Edgar, 2E ..... Levelland
Haskins, Rayburn, 1S ..... Wolfforth
Haslam, Harold, 2S ..... Pampa
Hasson, Jack, 2E ..... Lubbock
Hastings, H. Roy, 3E ..... Hereford
Hatch, J. K., 2B ..... Big Spring
Hatcher, Mrs. Bill, 5G ..... Lubbock
Hatcher, Billy, 2G ..... Lubbock
Hatcher, Holmes, 2B ..... Lubbock
Hatcher, Loyd, 3B ..... Bellevue
Hatcher, Ruth, 2G ..... Dallas
Hatcher, Sammy, 2B ..... Lubbock
Hatchett, Don, 2S ..... Lubbock
Hausler, Ben E., 2B ..... Wichita Falls
Havens, Argus, 1E ..... Paducah
Havens, Tull, 1E ..... Clairette
Havis, Ralph, 2A ..... Lubbock
Havran, Edward F., 1A ..... Knox City
Hawes, Charles, 1S ..... Lubbock
Hawkins, Euton, 1H ..... Amarillo
Hawkins, Walace E., 4G ..... Lubbock
Hawkins, Welton, 1S ..... Monahans
Hawthorne, Irene, 4Ed ..... Post
Hayden, William, 1A ..... Pickson
Hayes, Linda E., 2B ..... Gatesville
Haynes, Carolyn, 1G ..... Lubbock
Haynes, John F., Jr., 1E ..... Silverton
Haynie, Clifton, 2B ..... Dallas
Hays, Mrs. Addie Jane, 3Ed ..... Lubbock
Hays, Brad, 1B ..... Pampa
Hays, Eleanor, 3H ..... Snyder
Hays, Gerald, 2E ..... Lubbock
Hays, James Leroy, 1S ..... Dodson
Hays, James Sparks, 2E ..... Lubbock
Hays, John, 1S ..... Littlefield
Hayter, Byron, 1E ..... Grenville
Hazelton, Oliver, Jr., 2E ..... Loving
Hazle, John D., 1G ..... Abernathy
Head, Ardath, 1G ..... Lubbock
Head, Mildred, 1G ..... Lubbock
Head, Tommy, 2H ..... Seymour
Headstream, W. Ralph, 1S ..... Roby
Heald, James, 2G ..... Lubbock
Heard, Howard, 1E ..... Brownwood
Heard, Paul, 1G ..... Hobbs, N. M.
Heath, Howard, 1E ..... Seagraves
Heath, Louise, 1G ..... Brownfield
Heath, Parrish, 2S ..... Lubbock
Heatley, Beatrice, 2A ..... Lubbock
Heatley, W. Lee, 2E ..... Lubbock
Heck, Floyd, 4A ..... Winters
Hedges, J. P., 1A ..... Wink
Hedges, Kenneth, 2E ..... Wink
Hedrick, Ernest, 2E ..... Mineral Wells
Hedrick, Walter Russell, Jr., 2E .. Lubbock
Hefton, Stanley, 1B ..... Sherman
Heggen, Bernice, 2G ..... Abernathy
Heinemann, James Jon, 1G ..... Ft. Worth
Heller, Raymond, 3E ..... Happy
Hembree, J. C., 1G ..... Borger
Hembree, Thomas, 2E ..... Margaret
Hemby, J. L., 3A ..... Sweetwater
Henard, Robert, 3A ..... Plains
Henderson, Allie, 3H ..... Farwell
Henderson, Mrs. Bryan C., 3G ..... Wink
Henderson, Charlie, 1E ..... Dallas
Henderson, Dot, 3Ed ..... Shallowater
Henderson, Katherine, 1H ..... Hamilton
Henderson, Scott Lavert, Jr., 1B .... Quanah
Henderson, Walton, 4A ..... Floydada
Hendrick, Billie Blanche, 1H ..... Rogers
Hendrick, Ross, 4E ..... Hart
Henry, Allen, 4A ..... Sterling City
Henry, Lester, 3A ..... Roby
Henry, Maurice, 2A ..... Sterling City
Henry, B. Phyllis, 2G ..... Iraan
Henry, Ruth, 2G ..... Lorenzo
Henslee, Christine, 4H ..... Hereford
Hensley, Carl, 1E ..... Abilene
Hensley, Homer, 1B ..... Lubbock
Hensley, James, Jr., 1G ..... Penwell
Henson, Audentia, 4H ..... Farwell
Henson, Maggie, 3H ..... Meadow
Henson, T. A., 1B ..... Littlefield
Herald, Rollin, 4G ..... Austin
Herbst, Joe E., 2E ..... Dallas
Herrin, Alden, 1G ..... Anton
Herring, Frank, 2G ..... Lubbock
Herring, Lee Durward, 2Ed .... Mineral Wells
Herring, Mary, 1Ed ..... Knox City
Herron, Lewis, 4A ..... Archer City
Herron, Tinker (Perry E.) 1S .. Archer City
Hess, Peggy, 1H ..... Lubbock
Hestand, Travis Katherine, 1H ..... Hart
Hester, Lucille, 2G ..... Bryson
Hickman, Bill Dick, 2E ..... Coleman
Hicks, Agnes A., 5H ..... Lubbock
Hicks, Charles, 4S ..... Colorado City
Hicks, John, 1B ..... Crosbyton
Hicks, Travis B., 1E ..... Snyder
Hicks, Travis E., 3S ..... Corpus Christi
Hieronymus, Billy, 2B ..... Temple
Higdon, Buster, 3S ..... Ranger
High, James Griffin, 2B ..... Stamford
Highley, Phyllis, 1Ed ..... Lubbock
Hightower, Earl Vernon, 1E ..... Lamesa
Hightower, Eulane, 4H ..... Lamesa
Hilbers, Bernadine, 1H ..... Lorenzo
Hilburn, Marvin, 2G ..... Lubbock
Hilburn, Nancy, 2H ..... El Paso
Hildreth, Wayne, 2A ..... Fairview, Okla.
Hill, Albert Eldon, 1G ..... Lockney
Hill, Ben Jr., 1B ..... Vega
Hill, Betty, 1G ..... Lubbock
Hill, Emma C., 5Ed ..... Ft. Smith, Ark.
Hill, Harold, 1B ..... Lubbock
Hill, James M., 5A ..... Tulia
Hill, Jane, 3Ed ..... Dallas
Hill, John, Jr., 2S ..... Midland
Hill, Martin, 1E ..... Uvalde
Hill, Milton, 3G ..... Lubbock
Hill, Mozelle, 1B ..... Morton
Hill, Nell, 2H ..... Carey
Hill, Paul, 1E ..... Nocona
Hill, Raymond, 2E ..... Bridgeport
Hill, Reba, 4G ..... Morton
Hill, Roy, 1A ..... Nocona
Hill, Wade, 1S ..... Brownfield
Hilliard, Betty Ann, 2B ..... Littlefield
Hilliard, Hobert, 3E ..... Desdemona
Hilliard, Virginia Ann, 2B ..... Lamesa
Hills, Margery Link, 2G ..... Lubbock
Hilton, Arvis, 1S ..... O'Donnell
Hinchey, Gerald, 2S ..... Lubbock
Hindman, Ruth, 2E ..... Spur
Hindman, Vaughn, 1E ..... Lubbock
Hinds, Jeanne, 1Ed ..... Ft. Worth
Hinds, Raymond, 3E ..... Tye
Hine, Homer Edwin, 1E ..... Holland
Hinson, H. Houston, 5E ..... Amarillo
Hisey, Dan, 1E ..... Spur
Hix, Argen, 4H ..... Wellington
Hobson, Rex, 1B ..... Mescalero, N. M.
Hoch, Caroline, 1G ..... Bryson
Hochstein, Geraldine, 3H ..... Nazareth
Hodge, Betty, 2B ..... Denver City
Hodges, Adelene, 2Ed ..... Crosbyton
Hodges, Andrew J., 2E .... Shreveport, La.
Hodges, Billie, 3H ..... Childress

Hodges, Carrol, 1A ..... Sweetwater
Hodges, Clyde, 1A ..... Crosbyton
Hodges, Helen, 1G ..... Abernathy
Hodges, Orella, 3H ..... Sterling City
Hoeffner, Paul C., 3A ..... Hernietta
Hofacket, Owen, 1S ..... Levelland
Hoffman, Anna Marie, 1H ..... Marfa
Hoffman, Claude, 3A ..... Paint Rock
Hoffman, George, 1E ..... Marfa
Hoffmaster, Virginia, 1G ..... Dallas
Hofues, Frank, 1B ..... Dallas
Hogan, Era Belle, 4H ..... Spur
Hogan, Virginia, 1G ..... Lubbock
Hogg, Gracie Mae, 4H ..... Lamesa
Hogg, Rachel, 2H ..... Lamesa
Holden, Frances Mayhugh, 5G .... Lubbock
Holden, Mary Edith, 1G ..... Clyde
Holder, Louie, 1G ..... Vernon
Holland, Lottie, 3Ed ..... Big Spring
Holland, Wayne, 2E ..... Houston
Holley, Merl E., 1A ..... Paducah
Holleyman, Bradford, 2E ..... Gladewater
Holloway, Annabelle, 1H ..... Pampa
Holloway, Burrell, 1E ..... Pecos
Holloway, Gehrome, 4A ..... Lubbock
Holloway, Maretta Frank, 4H ..... Lubbock
Holloway, Robert, 3A ..... Tahoka
Holman, Jane, 1S ..... Seymour
Holmes, Henry, 4G ..... Shamrock
Holmes, Max, 1S ..... Trenton
Holmes, Robert. 3A ..... Miami, Okla.
Holmes, T. H., Jr., 1S ..... Ralls
Holt, Aubrey, 3A ..... Cisco
Holt, C. Zeno, 2S ..... Gruver
Holt, Mary Nell, 4G ..... Lubbock
Holt, William, 3S ..... Slaton
Honea, Elmont, 3A ..... Tulia
Hooker, Claude L., 4B ..... Albany
Hooker, Lavoy, 4E ..... Lubbock
Hooks, Ralph, 4B ..... Abilene
Hooser, Winnie Jo, 3G ..... Plainview
Hooten, Maude L., 4H ..... Woodson
Hoover, Charles Verne, 1A ..... Mt. Calm
Hoover, Jack, 1A ..... Post
Hopkins, Christine, 3H ..... Byers
Hope, Harold, 1B ..... Borger
Hope, Lannes, 1E ..... Slaton
Hord, Raymond, 1E ..... Houston
Horne, Billy, 1A ..... Quannah
Horne, Evatt, 3E ..... Cisco
Horne, Joe, 2E ..... Lubbock
Horner, John Graham, 4E ..... Hallsville
Horner, Lillian, 2B ..... Wink
Horner, Thomas, 1A ..... Jayton
Horton, Gerald D., 1A ..... Abernathy
Horton, James, 1B ..... Tyler
Horton, Perry, 1G ..... Big Spring
Horton, Preston, 1A ..... Hermleigh
House, Kathleen, 2G ..... Roby
House, Virginia Irene, 1B ..... Lubbock
Housewright, Wilson, 3B ..... Wylie
Houston, Buster, 3S ..... Ft. Worth
Houston, Cecil, 2E ..... Dallas
Houston, Merle, 4G ..... Stanton
Houston, Olin, 1S ..... Ft. Worth
Houston, Thelma, 2G ..... Lubbock
Houston, Tom, 1A ..... Stanton
Howard, E. L., 4E ..... Post
Howard, Harvey L., 2E ..... Lubbock
Howard, Mrs. M. W., 2H ..... Lubbock
Howard, Paula, 3G ..... Childress
Howard, R. C., 1E ..... Olney
Howard, Thomas, 1G ..... Henrietta
Howe, Deahl, 1B ..... Panhandle
Howell, Alvis, 1B ..... Lubbock
Howell, Doris, 2H ..... Post
Howell, Harlan, 5A ..... White Deer
Howell, Sam Wade, 2E ..... Tahoka
Howell, Reagan, 4E ..... Lubbock
Huddleston, Hollis, 1B ..... Abilene
Hudkins, Evelyn, 2B ..... Midland
Hudson, James, 1E ..... Lubbock
Hudson, Virginia, 3S ..... Novice
Hudspeth, Clinton Guy, Jr., 4S ..... Iraan
Huff, Clayton W., Jr., 1E ..... Idalou
Huff, Elaine, 2H ..... Silver City, N. M.
Huff, Olive, 1G ..... Lubbock
Huffaker, Maurice, 1E ..... Wilson
Huffman, James W., 5A ..... Grapevine
Hufstedler, Oneta Belle, 2G ..... Lubbock
Hughes, Clarice, 2H ..... Roaring Springs
Hughes, Comora, 1Ed ..... Merkel
Hughes, David, 1G ..... Wills Point
Hughes, Herman, 1E ..... Rotan
Hughes, Irene, 3H ..... Higgins
Hughes, La Verne, 2H ..... Merkel
Hughes, Lewis C., 1E ..... Graham
Hughes, Margaret, 3Ed ..... Levelland
Hughes, Sep, 3B ..... Hillsboro
Hughes, Urbane, 1A ..... Lakeview
Hughes, Vola Maye, 1B ..... Slaton
Hulsey, Charles, 1A ..... Floydada
Humphries, Horace, 1G ..... Lubbock
Humphries, Katalynn, 4G ..... Whiteflat
Humphries, Willouise, 1B ..... Lubbock
Hundley, Jimmy, 2E ..... Post
Hunsucker, Kara, 1G ..... Matador
Hunt, Dick, 1B ..... Guyman, Okla.
Hunt, Elba, 2E ..... Dodson
Hunt, Troy, 1E ..... Dickens
Hunt, Walter, 1E ..... Claude
Hunter, Elmer, 1B ..... Lubbock
Hunter, Frances, 1G ..... Lubbock
Hunter, Hallie, 1H ..... Lubbock
Hunter, Mary Ann., 1G ..... Brownfield
Hurlbut, Lanelle, 1G ..... Lubbock
Hurbut, Opal, 1G ..... Lubbock
Hurn, Richard, 4E ..... Henrietta
Hurst, C. W., 1G ..... Lubbock
Hutchings, Daphene, 3G ..... Dimmitt
Hutchings, G. B., 1E ..... Olney
Hutchinson, Mrs. J. T., 5G ..... Lubbock
Hyatt, Cleatus, 2A ..... Carbon
Hyatt, Curtis, 2A ..... Carbon
Hyde, Bernice, 1G ..... Earth
Hynds, Ray, 5G ..... White Deer
Igo, Norman, 1G ..... Ralls
Inglish, Ross Jr., 1E ..... Jayton
Ingram, Charles, 1E ..... Mexia
Ingram, Noble O., 2B ..... Paducah
Ingram, Thomas, 3A ..... Idalou
Inkman, Mary Louise, 4G ..... Big Spring
Irby, Elizabeth, 1Ed ..... Dallas
Ireson, Lansford, 1E ..... Houston
Ireton, Elmer Taylor, 1E ..... Lamesa
Irons, Edwin, 2B ..... Paducah
Irwin, Rudolph, 1G ..... Albany
Isbell, Berneta Louisa, 5G ..... Plainview
Jack, Bertram, 4A ..... Friona
Jackson, Albert L., 2E ..... Whitewright
Jackson, Bertell, 1B ..... Lubbock
Jackson, C. T., 2G ..... Lubbock
Jackson, Floyd, Mrs., 3Ed ..... Hurlwood
Jackson, Frank, 4S ..... El Paso
Jackson, Jean, 2B ..... Abernathy
Jackson, John, 4A ..... Roaring Springs
Jackson, Joy Berta, 1H ..... Lubbock
Jackson, Lloyd H., 4E ..... Lubbock
Jackson, Lovina Ora, 1G ..... Monroe
Jackson, Mabel, 1Ed ..... Lubbock
Jackson, Marjorie, 3B ..... Roaring Springs
Jackson, Oliver, 3B ..... Abernathy
Jackson, Rex R., 2G ..... Tahoka
Jackson, Robert L., 4E ..... Lubbock
Jackson, Tom, 1G ..... Lubbock
Jackson, William B., 2S ..... Carbon
Jacobs, Charles E., 1B ..... Lamesa
Jacobs, Earl W., 2G ..... Lamesa
Jaggers, Billie B., 3S ..... Waldran, Ark.
Jahnke, Clarence, 2E ..... Dallas
James, Helen, 2H ..... Dalhart
James, Opal Ruth, 1E ..... Lubbock
James, Robert, 2A ..... Belton
James, W. E., Jr., 1S ..... Pampa
Janes, Dodson, 2E ..... Wellington
Jarratt, Frances, 4B ..... Lubbock
Jarrett, Claude E., 1G ..... Lubbock
Jarrott, Helen, 1G ..... Lubbock
Jarrott, Mary, 2G ..... Lubbock
Jarvis, Harry C., 3E ..... Lubbock
Jarvis, John, 2E ..... Overton
Jasper, Walter, 3E ..... Grapevine
Jay, James Wallace, 1E ..... Jayton
Jay, Jimmie, 1S ..... Sweetwater
Jefferies, R. A., Jr., 3B ..... Hale Center
Jenkins, Clothile, 1G ..... Levelland
Jennings, Cecil, 1E ..... Lubbock
Jennings, Jewell, 4H ..... Levelland

Jennings, Mont, 1E ..... Lubbock
Jerman, Iris, 2Ed ..... Amarillo
Jobb, James, 1G ..... Big Spring
Johnson, Doris, 1H ..... Lubbock
Johnson, Faula, 4H ..... Lubbock
Johnson, Gladys, 1H ..... Brownfield
Johnson, Glenn, 1B ..... Dalhart
Johnson, Granville, 2B ..... Lubbock
Johnson, Jack, 2G ..... Eastland
Johnson, Julia, 2G ..... Lubbock
Johnson, LeDoris, 1B ..... Lubbock
Johnson, Lewis H., 2E ..... Dallas
Johnson, Lewis M., 1A ..... Penwell
Johnson, Mary Helen, 2H ..... Dalhart
Johnson, Mary Lois, 2G ..... Lubbock
Johnson, Naomi, 2Ed ..... Lubbock
Johnson, Ober, 3E ..... Haskell
Johnson, Philip, 2E ..... Raymondville
Johnson, Ralph, 3E ..... Haskell
Johnson, R. C., 1B ..... Lubbock
Johnson, Rogers, 2E ..... Overton
Johnson, Mrs. Stanley, 3G ..... Lubbock
Johnson, Willie Dean, 1H ..... McGregor
Johnson, W. L., 2E ..... Texhoma, Okla.
Johnson, Zed, 2A ..... Plainview
Johnston, Alda Doris, 1B ..... Abernathy
Johnston, Bruce, 1G ..... Graham
Johnston, Guy Robert., 1E .... Nowpa, Idaho
Johnston, Joe Bob, 1B ..... Lubbock
Johnston, Louie, 3G ..... Lubbock
Johnston, Madge, 1H ..... Lubbock
Johnston, Maurine, 2S ..... Crane
Johnston, Milton, 4B ..... Odessa
Johnston, Ouida, 1H ..... Eskota
Johnston, Ralph C., 3A ..... Floydada
Johnston, Richard W., 2S ..... Graham
Johnston, Roberta, 2H ..... Eskota
Johnston, Wayne, 1E ..... Lubbock
Johnston, William, 2A ..... Lubbock
Joiner, Early, 5S ..... Floydada
Joiner, Ernest, 4G ..... Lubbock
Joiner, Ormonde, 5Ed ..... Lubbock
Joiner, Mrs. Thelma, 2G ..... Lubbock
Jones, Bacon, 1G ..... Bonham
Jones, Barbara Lynn, 1G ..... Westbrook
Jones, Bill, 1B ..... Lubbock
Jones, Carl W., 2B ..... Dumont
Jones, Carolyn, 1G ..... Grapeland
Jones, Charles, 2E ..... Lubbock
Jones, Clark, 4B ..... Lubbock
Jones, Dick, 1G ..... Colorado
Jones, Dorothy, 1S ..... Lubbock
Jones, Earlene, 1G ..... Brownfield
Jones, E. R., Jr., 1A ..... Hermleigh
Jones, Evelyn, 2G ..... Clarksville
Jones, Everett, 2S ..... Lubbock
Jones, Floyd, 2E ..... Paducah
Jones, Forrest, 1G ..... Olton
Jones, Forrest W., 4A ..... Lubbock
Jones, Franton Eaton, 3S ..... Ft. Davis
Jones, Glenn, 1Ed ..... Ft. Worth
Jones, Irving, 2E ..... Lubbock
Jones, Joni Lu, 3G ..... Stanton
Jones, Joyce, 4G ..... Bagwell
Jones, Lewis Glenn, 3B ..... San Angelo
Jones, Louise, 1H ..... Tulia
Jones, Marie, 4H ..... Wesbrook
Jones, Mark E., 4G ..... Morton
Jones, Meredith, 1B ..... Artesia, N. M.
Jones, Mildred Modean, 1Ed ..... Lamesa
Jones, Morris H., 3G ..... Lubbock
Jones, Murray, 1G ..... Lubbock
Jones, Paul, 2B ..... Goree
Jones, Rance, 3S ..... Megargel
Jones, Raymond, 4B ..... Lamesa
Jones, R. Elson, Jr., 1E ..... Lubbock
Jones, Sarah, 1G ..... Lubbock
Jones, Truman J., 3A ..... Poolville
Jones, Virginia Rose, 1B ..... Cleburne
Jones, Wayne, 4E ..... Lubbock
Jones, Weldon, 2A ..... McAdoo
Jones, William Grover, 1G ..... Alpine
Jones, W. L., Jr., 3A ..... Tracy, Calif.
Joosten, Virginia, 3S ..... Lubbock
Joplin, Iva Mae, 1B ..... Lubbock
Jordan, Bob, 3B ..... Abilene
Jordan, Jack, 3B ..... Aspermont
Jordan, Jeraldine, 3B ..... Blackwell
Joyce, Barry, 1G ..... Colorado
Joyce, Milton, 1G ..... Snyder
Joyner, Victor, 2A ..... Spur
Kaiser, Eugene, 5S ..... Weatherford
Kane, Jerry, 1B ..... Weinert
Karsteter, Bob, 2G ..... Henrietta
Karsteter, Hugh, 1A ..... Henrietta
Kathman, Clemens Augustus, 4G ..... Portales, N. M.
Kayser, J. Merrill, 5G ..... Weatherford
Keahey, Billy, 3A ..... Roaring Springs
Kearney, Ernest, 1B ..... Spur
Keasler, R. M., 1B ..... Eastland
Kee, Bill Bob, 1G ..... Lubbock
Keen, Jack, 1A ..... Spur
Keen, Mrs. Lucile D., 5S ..... Lubbock
Keene, Leon, 2B ..... Lubbock
Keeney, Raymond, 1B ..... Colorado
Keeton, Finis, 3E ..... Bonham
Keffer, Jim, 1B ..... Wink
Keith, L. M., Jr., 2S ..... Brownfield
Keith, Mary Kathryn, 1H ..... Lubbock
Keith, Marzelle, 1H ..... Borger
Keithley, Xexieus, 5G ..... Lubbock
Keller, Evelyn, 3G ..... Lubbock
Kellett, Louis, 1S ..... Girard
Kelley, Clarence L., 3E ..... Lubbock
Kelley, Dora Dell, 3G ..... Honey Grove
Kelley, Julian, 1B ..... Santa Anna
Kelley, Robert, 1A ..... Sonora
Kelly, Dorothy Dee, 1G ..... Lubbock
Kelly, Vorus, 4G ..... Lubbock
Kelton, George, 2G ..... Hobbs, N. M.
Kendall, Normagene, 1S ..... Lubbock
Kemp, A. J., 2G ..... Clovis, N. M.
Kendrick, Lowell, 2E ..... Lubbock
Kendrick, Mary Adelia, 2G ..... Midland
Kennedy, Crystal, 4G ..... Muleshoe
Kennedy, Jack, 1B ..... Rotan
Kennedy, Keith, 1G ..... Groesbeck
Kennedy, Mack, 2G ..... Dickens
Kennedy, Ray, 1G ..... Lubbock
Kennedy, Virginia, 2H ..... Rotan
Kennemer, Elbert, 1B ..... Dallas
Kenney, Lois, 1G ..... Lubbock
Kent, Jack, 1E ..... Houston
Kent, Lee, 2B ..... Perryton
Kerr, L. A., 2S ..... Lubbock
Kershner, Horace, 2A ..... Lubbock
Kesler, Elton, 1A ..... Wellington
Kessel, Milton, 2B ..... Slaton
Key, Marjory, 3Ed ..... Wilson
Key, Sydney, 1G ..... Kirkland
Keyes, Robert, 2E ..... Roswell, N. M.
Keys, Arch, 1A ..... Plainview
Kidd, Edward, 3G ..... Mexia
Kidwell, Ruby, 1G ..... Lamesa
Kiker, Joseph, 3B ..... Breckenridge
Killam, Jean, 1H ..... Eola
Killin, Wendell, 3S ..... Lubbock
Kilpatrick, James, 1E ..... Lubbock
Kimbrell, Wanda, 2H ..... Idalou
Kimmell, Lewis Clark, 1G ..... Lubbock
King, Allen Hilton, 4A ..... Lubbock
King, Charlene, 1B ..... Roaring Springs
King, Herbert, 3B ..... Albuquerque, N. M.
King, H. L., 2E ..... Lubbock
King, Joe Bruce, 1B ..... Roaring Springs
King, J. W., Jr., 1G ..... Loraine
King, Kathleen, 1G ..... Hale Center
King, Mary Elizabeth, 2H ..... Clarendon
King, Mary Nell, 1H ..... Albany
King, Randell, 1B ..... Floydada
King, Rozelle, 3H ..... San Angelo
King, Syble, 1H ..... Higgins
King, W. A., 5A ..... Lorenzo
Kingsbury, Norman, 2G ..... Kilgore
Kirby, Dahlia, 4G ..... Lubbock
Kirk, Buster, 4E ..... Spearman
Kirk, Doris, 3G ..... Spearman
Kirkpatrick, Ben R., 4E ..... Marysville
Kirkpatrick, Lucille, 2H ..... Dimmitt
Kirksey, Rebecca, 2Ed ..... Lorenzo
Kiser, Paul, 4A ..... Sylvester
Kisinger, George, 1E ..... Graham
Kittley, Wayne, 1G ..... Sudan
Kittrel, Mary Lee, 1G ..... Lorenzo
Klein, Jack, 3B ..... Lubbock
Kley, John, 2G ..... Eastland
Kluting, Evelyn, 1H ..... Peacock

Knapp, Faith, 5G ..... Lubbock
Knapp, Mary Ann, 1H ..... Sweetwater
Knapp, Virginia, 4G ..... Lubbock
Knight, Bill, 1S ..... Lubbock
Knoll, Ardie, 4E ..... Brownwood
Knox, Seth, 3A ..... Roby
Knox, Stanford C., 2A ..... Hereford
Knutson, Billie, 2G ..... Lubbock
Koemel, Fred, 1S ..... Robstown
Koen, Irene, 1H ..... Carbon
Koeninger, Leta Merle, 2Ed ..... O'Donnell
Koger, Kenneth, 3B ..... Shamrock
Koger, Maurice, 3S ..... Shamrock
Kolb, Doris, 2G ..... Lubbock
Kolb, Lourene, 2G ..... Rotan, N. M.
Krebbs, Ralph, 1G ..... Levelland
Krebbs, Roy L., 3G ..... Levelland
Kritser, David, 4A ..... Amarillo
Kruger, Noel C., 5Ed ..... Lubbock
Kubala, Clarice, 1G ..... Beeville
Kube, Ludwig, 3E ..... Farwell
Kutchinski, Paul, 1E ..... Higgins
Kuykendall, Martin, Jr., 2E ..... Lubbock
Kuykendall, Martin L., 4E .... Dexter, N. M.
Kuykendall, Maxine, 1G ..... Lubbock
Kuykendall, Roger L., 2B ..... Lubbock
Lacey, Robert, 1E ..... Colorado
Lacik, Harold, 1E ..... Lubbock
Lackey, Emogene, 1H ..... Floydada
La Due, Milton, 1E ..... Dallas
Lail, Deborah, 1G ..... Smyer
Lair, Joe W., 2E ..... Jacksboro
Lair, Nard, 5Ed ..... Lubbock
Laird, Lloyd E., 2E ..... Lorenzo
LaJeuenesse, Richard, 2E ..... Brownsville
Lake, Edgar L., 1G ..... Temple
Lake, Gerald, 4E ..... Temple
Lam, Gwendolyn, 1H ..... Lubbock
Lam, Raybon, 4S ..... Denver City
Lamb, Dorothy Margaret, 3G ..... Stamford
Lamb, Georgia Mae, 2G ..... Burkburnett
Lamb, Hershel A., 1A ..... Ft. Worth
Lamb, Lillian, 1G ..... Stamford
Lamb, Pauline, 2S ..... Hobbs, N. M.
Lamb, Vivian, 1B ..... Stamford
Lambert, A. C., Jr., 2G ..... O'Donnell
Lambert, Roy Lee, Jr., 1A ..... Hawley
Lambeth, Harold, 1B ..... Colorado City
Lamm, J. T., 3G ..... Lubbock
Lancaster, Jimmy, 2S ..... Temple
Land, Elizabeth, 3G ..... Amarillo
Landers, Sidney, 1E ..... Lamesa
Landis, Jimmie Van, 1G ..... Dallas
Landrum, J. C., 3B ..... Fluvanna
Laney, James Arthur, 2S ..... Lubbock
Laney, John B., 2B ..... Lubbock
Lanford, U. J., Jr., 1G ..... Lubbock
Langford, Don, 3E ..... Bluff Dale
Langford, Joe Franklin, 1B ..... Ft. Worth
Langham, Joe Dell, 3G ..... Overton
Langley, Earnest Lee, 3G ..... Sweetwater
Langley, George, 1A ..... Wellington
Lanham, W. T., 2B ..... Stephenville
Lanier, Rex, 1B ..... Ft. Worth
Lankford, Anita, 1G ..... Idalou
Lankford, John, 2E ..... Seymour
Larmer, Bill, 2B ..... Ft. Worth
Larnce, William, 2E ..... Waco
LaRoe, Travis, 3E ..... Tulia
Larson, Bob, 1B ..... Dallas
Lassiter, Bryant, 2G ..... Lubbock
Latch, Mary, 5G ..... Cisco
Latimer, Harold, 1G ..... Littlefield
Latimer, Howard, 1B ..... Littlefield
Lattimore, Glenn, 1S ..... Lubbock
Lattimore, James Padley, 3A .... Lubbock
Lattimore, Owen, 3S ..... Lubbock
Laubhan, Esther, 3Ed ..... Higgins
Laubhan, Milton, 1G ..... Lubbock
Lauderdale, Woodrow W., 3E ..... Iraan
Laughter, Gola Grace, 1H ..... Lubbock
Lawless, Hugh, 1G .. Steamboat Springs, Colo.
Lawley, W. B., 2S ..... Lubbock
Lawrence, Bettie, 2B ..... Houston
Lawrence, Clayton, 1A ..... Idalou
Lawrence, Ewell, 4Ed ..... Lubbock
Lawrence, Jim Tom, 1S ..... Baird
Lawrence, Madge, 1S ..... Pampa
Laws, Mrs. Jeanie, 3B ..... Lubbock
Laws, Lois, 2H ..... El Paso
Lawson, Richard, 2E ..... Dallas
Leach, Allen, 1S ..... Dallas
Leach, Mary Frances, 3H ..... Brownwood
Leary, Louette, 1G ..... Lubbock
Leary, Peggy Jane, 4B ..... Estelline
Leary, Ruby Lee, 5G ..... Lubbock
Leaverton, Herbert, 1S ..... Lubbock
Leavitt, Laurine, 3G ..... Wilson
Ledbetter, Newman, 2S ..... San Benito
Ledwig, James, 2E ..... Groom
Ledwig, Madeline, 1B ..... Lubbock
Lee, Arlie, 2Ed ..... Mobeetie
Lee, Armoria, 1G ..... Colorado
Lee, Berneice, 2Ed ..... Littlefield
Lee, Ewing, 2E ..... Colorado
Lee, Frank, 3E ..... Lubbock
Lee, John A., 2B ..... Electra
Lee, John W., Jr., 2A ..... Lubbock
Lee, Josephine Kay, 5G ..... Lubbock
Lee, Len, 1E ..... Silverton
Lee, Monte Ray, 1E ..... Cleburne
Lee, Reginia, 1G ..... Spur
Lee, Wm. Johnson, 4A ..... Littlefield
Leech, Joesph C., 1G ..... Lubbock
Leftwich, Jimmie, 2B ..... Lubbock
Legge, Melvin S., 2E ..... Lubbock
Lehman, Winn, 2S ..... Booker
Lehr, Dale, 2E ..... Lubbock
Lehr, Theron, 3E ..... Lubbock
Lemke, Walter, 2A ..... Adrian
Lemley, Fabian, 3B ..... Crosbyton
Lemons, Mavis G., 3A ..... Plainview
Lemons, Wm. H., Jr., 4B ..... Sanderson
Lentz, J. C., Jr., 1B ..... Paris
Leonard, Albert, 1E .... Steamboat Springs, Colo.
Leonard, Dorothy, 3G ..... Tulia
Leonard, Joseph P., 4S ..... Utica, N. Y.
Leonard, Max, 2B ..... Post
Leonard, Ralph, 1G .... Steamboat Springs, Colo.
Lester, J. L., 5A ....Pampa
Leuenberger, Berthul, 4E ..... Lubbock
Leuenberger, Glover, 1B ..... Lubbock
Leuschner, Mrs. Grace V., 4G .... Lubbock
Levens, Billye, 1G ..... Lubbock
Levens, Otis, 1A ..... Rotan
Levers, Ervin, 3E ..... Roswell, N. M.
Levy, Thomas, 1A ....Farwell
Lewis, Arch, 3E ..... San Angelo
Lewis, Dessie K., 4H ..... Shamrock
Lewis, Don, 3B ..... Plains
Lewis, Edward, 1B ..... Rule
Lewis, Elray, 4B ..... Brownfield
Lewis, Evelyn, 3S ..... Clarksville
Lewis, G. D., 2E ..... Ropesville
Lewis, Ila, 2G ..... Earth
Lewis, Phifer, 1B ..... Olney
Lewis, Vondee, 2G ..... Brownfield
Lewis, W. A., 4E ..... Roaring Springs
Lewter, Foy, 1B ..... Gordonville
Lickey, Lorna Faye, 1B ..... Lubbock
Lieske, Bertha Elnora, 4Ed ..... Sweetwater
Liles, Gracie Helen, 1H ..... Loop
Liles, Wayne, 2G ..... Slaton
Lilley, Lydia Maye, 2E ..... Hart
Lilly, J. P., Jr., 2E ..... Muleshoe
Lilly, W. T., 2E ..... Elbert
Lindley, Foster, 1G ..... Seminole
Lindley, Maxine, 1H ..... Graham
Lindley, Pittman, 1B ..... Big Lake
Lindsey, Betty Lee, 2B ..... Lubbock
Lindsey, Bob, 3E ..... Plainview
Lindsey, Dwight, 3A ..... Hollis, Okla.
Lindsey, Robert, 1A ..... Lubbock
Lindsey, Rogers, 3A ..... Lubbock
Lindsey, Woodson W., 4A ..... Lubbock
Line, Ivan, 1B ..... O'Donnell
Line, Gwyne, 5G ..... O'Donnell
Liner, Ollie, 2A ..... Lubbock
Liner, Warren, 1A ..... Lubbock
Lingle, Julia Pollard, 4E ..... Lubbock
Linn, J. B., 1G ..... Amarillo
Linn, Jimmy, 1E ..... Petersburg
Lisle, Emma Jean, 2B ..... Rule
Little, Burl, 1A ..... Sherman
Little, Lorene, 2H ..... Woodson
Little, Ometa, 1G ..... Anton

Littlefield, Loynel, 1E ..... Lubbock
Littlepage, C., 5A ..... Tahoka
Litton, James, 5S ..... Lubbock
Locke, Edwin B., 1E ..... Sayre, Okla.
Locke, John Thomas, 4Ed ..... Miami
Locke, Lewis, 3E ..... Miami
Lockhart, Charles, 1B ..... Lubbock
Loesel, Waldemar, 5G ..... Lubbock
Loflin, Margery, 2G ..... Ralls
Loflin, Ruth, 1H ..... Ralls
Loftis, Kathleen, 1B ..... Lorenzo
Loggins, Maurice, 1E ..... Kilgore
Lokey, Jack L., 3B ..... Lubbock
London, Walter, Jr., 1A ..... Hereford
Long, Dan, 2H ..... Ralls
Long, J. C., 1E ..... Lubbock
Long, Mary Paul, 4G ..... Lubbock
Long, William, 1S ..... Dallas
Longley, Jack, 2S ..... Lubbock
Looman, Margaret, 4B ..... Borger
Lord, William M., 1B ..... Kansas City, Mo.
Loter, Wesley, 1B ..... Wellington
Lott, Woodrow Wilson, 5G ..... Slaton
Love, Billie Ruth M., 3G ..... Henderson
Love, Jess M., 4E ..... Brownwood
Lovelace, Harris, 1G ..... Ballinger
Lovelace, Jack B., 1B ..... Lubbock
Lovelace, James, 2E ..... Dallas
Lovelace, John, 1A ..... Farwell
Lovelady, Peggy, 1G ..... Ft. Worth
Loveless, C. Vernon, 2A ..... Friona
Loveless, Carl, 3E ..... Lubbock
Lovell, Gordon, 1E ..... Lubbock
Lovell, Jack, 2G ..... Dalhart
Lovett, Herman, 4A ..... Nocona
Loving, Elaine, 4G ..... Amarillo
Lowe, Glenn, 2B ..... Groesbeck
Lowe, Rex, 1G ..... Lubbock
Lowry, Leonard F., 1E ..... Plainview
Loyd, Grace, 1Ed ..... Olton
Loyd, Lucille, 3H ..... Olton
Loyd, Tommie, 1E ..... Olton
Luccock, Henry, 1E ..... Keene
Luce, Elizabeth, 2G ..... Littlefield
Luck, Mary Ada, 1G ..... Levelland
Luscombe, Ferg, 2E ..... Dalhart
Lyle, Bill, 4S ..... Lubbock
Lyman, John, 3E ..... Lubbock
Lynch, Betty, 1B ..... Dallas
Lynch, James Paschall, 1E .... Colorado City
Lynch, Lenore, 2H ..... Morton
Lynch, Sterling Joseph, 2G ..... Lubbock
Lynn, Albert, 1E ..... Dallas
Lynn, Elmer S., 2E ..... Dallas
Lynn, Harold, 4A ..... Lubbock
Lyon, P. A., 2B ..... Spearman
Lytle, He'en, 3H ..... Quanah
McAfee, Bud, 1B ..... Pampa
McAllister, Joe, 1B ..... Lubbock
McAlpine, Dugald Perry, 2B ..... Dallas
McAnally, James Weldon, 3E ..... Chicota
McArthur, Allen Arthur, 1A .... Southland
McArthur, Wilmoth, 3A ..... Southland
McArthur, Woodrow, 1G ..... Spur
McBee, Elton Edwin, 1E ..... Levelland
McBride, Betty Maurine, 1H ..... Lubbock
McBride, John, 2E ..... Lamesa
McCallum, Laurice Weldon, 2E .... Trinidad
McCain, Roberta, 3H ..... Slaton
McCallum, Catherine, 2G ..... Dallas
McCanlies, Aleene Sue, 1G ..... Benjamin
McCarty, Dora Nell, 3H ..... Lubbock
McCarty, Louise, 1H ..... Lubbock
McCarty, Lynn, 1B ..... Lubbock
McCarty, Martin Winston, Jr., 4E .. Lubbock
McCaskill, F. A., Jr., 2A ..... Lubbock
McCaskill, Neal, 3E ..... Lubbock
McCasland, Wilda, 3H ..... Waco
McCauley, Georgene, 2G ..... Lubbock
McClellan, Roy Lee, 2E ..... Spearman
McClellan, Vera Beth, 4H ..... Spearman
McClendon, Edgar, 1S ..... Lubbock
McClendon, Elmo, 3E ..... Lubbock
McCleskey, Howell L., 4A ..... Dalhart
McClintock, Azil, 1E ..... Lamesa
McClish, Martha, 3Ed ..... Brownfield
McCloud, Leland, 1E ..... Graham
McCloy, Alfred Willard, 2G ..... Morse
McClure, Charles Clement, 2A .... Jacksboro
McClure, Wynell, 2H ..... Spur
McColloch, Lawrence, 1Ed .. Burlington, Iowa
McCormick, Charlie, 1A ..... Merkel
McCoy, Bill, 1S ..... Baird
McCracken, J. D., 4A ..... Odessa
McCravy, Bill J., 1E ..... Lubbock
McCreary, Lucille, 1B ..... Lubbock
McCreary, Marie, 2G ..... Rockwood
McCreary, Weldon, 4A ..... Rockwood
McCreless, Kathleen, 2G ..... Stanton
McCrorey, Jean, 2S ..... Lubbock
McCrory, John, 2E ..... Lubbock
McCrory, Martha, 1H ..... Lubbock
McCrummen, Louise, 4H ..... Lubbock
McCrummen, Margaret, 1S ..... Lubbock
McCrummen, Marie, 2S ..... Lubbock
McCuistion, Dorothy, 4H ..... Stamford
McCullock, Hayden, 1G ..... Morton
McCune, Dorothy, 3G ..... Tulia
McCrury, Lonnie, 2B ..... Lubbock
McCutchen, Gail, 1H ..... Robert Lee
McCutchen, Mary Lou, 4S ..... Robert Lee
McDade, Mollie Jo., 1B ..... Dumas
McDaniel, Frank, 1E ..... Seymour
McDaniel, Harold, 4E ..... Loop
McDaniel, Jim, 1B ..... Lubbock
McDaniel, Olive Jane, 1G .. Tularosa, N. M.
McDavid, Earle, 1E ..... Amarillo
McDavid, Jean, 4G ..... Amarillo
McDermott, Reginald, 1E ..... Decatur
McDonald, Archie S., 2G ..... McAdoo
McDonald, Aurelia, 1G ..... Lubbock
McDonald, Jack, 4E ..... Lubbock
McDonald, Jeanne, 3G ..... Clarendon
McDonald, Marshall, 1E ..... McAdoo
McDonald, Mary Louise, 4G ..... Lubbock
McDonald, Robert, 3A ..... McAdoo
McDonald, W. P. (Bill) 3G ..... Stamford
McDougal, Burton, 3S ..... Lubbock
McDowell, Dorothy, 1H ..... Shamrock
McDowell, Mary Ann., 2E .... San Antonio
McDowell, Woodyard Lee., 1G, .. Little Rock, Ark.
McElheny, Geraldine, 1H ..... Dallas
McElroy, Sally E., 1H ..... Knox City
McElyea, Mrs. Mary, 4B ..... Slaton
McEntire, Mildred, 1H ..... Graham
McEwen, John Ben., 3E ..... Hillsboro
McFarland, Charline, 1H ..... Friona
McFarland, Geraldine, 4B ..... Friona
McFarland, Hugh, 4B ..... Lubbock
McFarland, Kenneth, 3E ..... Lubbock
McFarland, Mrs. S. J., 1G ..... Lubbock
McGaha, J. D., 1G ..... Girard
McGee, Emerson R., 4E ..... Borger
McGehee, Beth Lowe, 1H ..... Vigo Park
McGehee, Lyman York, 3A ..... Wayside
McGhee, J. Albert, 2E ..... Waco
McGinty, Gene, 1G ..... Plainview
McGlasson, Margaret, 4B ..... Plainview
McGowen, Emmagene, 1H ..... Anton
McGregor, Joe, 1A ..... Lubbock
McGregor, Margaret, 3H ..... Idalou
McGuire, Jack, 4E ..... Lubbock
McIllwain, James Wm., 3E ..... Lubbock
McInnis, Winston, 5A ..... Menard
McIntosh, Andy, 3E ..... Borger
McIver, Mary Lou, 1H ..... Brookesmith
McKay, Betty, 2G ..... Brownwood
McKee, George, 2A ..... Windthorst
McKenzie, John, 3A ..... Mesquite
McKeown, Kathleen, 1H ..... Jal, N. M.
McKinney, Sidney, 1B ..... Iowa Park
McKnight, Donald, 1E ..... Abilene
McKnight, E. J., 3G ..... Mexia
McLain, Helen Jane, 3G ..... Lubbock
McLain, Nelson, 2G ..... Lubbock
McLarty, Marion, 1B ..... Lubbock
McLaughlin, France, 2A ..... McAdoo
McLaughlin, Reid, 2A ..... McAdoo
McLaughlin, Wanda, 1H ..... McAdoo
McLean, Emily, 2B ..... Dimmitt
McLeod, Etoile, 3G ..... Lubbock
McLeod, O'Dell, 2B ..... Lubbock
McMahan, Frank, 1S ..... Van Alstyne
McMahon, Jim, 1G ..... Lubbock
McManigal, Morlan, 4B ..... Happy
McManis, Velma, 3Ed ..... Tahoka
McMenamy, Edward, 1B ..... Whitesboro

McMenamy, Fannie Lou, 1B ..... Lubbock
McMenamy, James, 4A ..... Lubbock
McMillan, Jack, 1B ..... Plainview
McMillin, Kelly, 2E ..... Childress
McNeely, Orland, 1S ..... Lubbock
McNeese, C. H., 4E ..... Lubbock
McNeill, Anna Kathryn, 1H ..... Lubbock
McNeill, Ida Mae, 1G ..... Dallas
McNeill, John, 4E ..... Lubbock
McNeill, Roy, 4E ..... Munday
McPherson, Clinton, 3E ..... Gainesville
McPherson, Gwen, 2E ..... Crosbyton
McPherson, Virginia, 2G ..... Shamrock
McQuatters, Roy B., 1A ..... Littlefield
McQuatters, Veta, 1H ..... Littlefield
McRae, A. D., 2E ..... Ft. Worth
McReynolds, Overton, 3S ..... Flomot
McReynolds, R. E., 1B ..... Slaton
McReynolds, Zoe, 1G ..... Muleshoe
McSpadden, Willard, 4E ..... Lamesa
McWherter, Dick, 2B ..... Paris
McWherter, Loyce, 1B ..... Kilgore
McWherter, Robert Clayton, 3E ..... Paris
McWhirter, Laverne, 5H ..... Roby
McWhorter, Alva C., 3H ..... Wolfforth
McWhorter, Muriel, 1G ..... Lubbock
McWhorter, Preston, 1S ..... Wilson
McWhorter, Weldon, 1A ..... Lubbock
McWilliams, Mildred, 2B ..... Kermit
McWilliams, Ramon Robert, 1B .. San Benito
McWilliams, Verna Leone, 1B .... Lubbock
MacDonald, Dorothy, 1B ..... Borger
Macha, Georgia, 3H ..... Tahoka
MacInerney, Dana B., 5Ed ..... Galveston
Mack, Emily Ann, 3G ..... Ft. Worth
Mackey, Clarice, 3H ..... Meadow
Mackey, Pat, 3E ..... Mexia
Madden, Wayne, 2E ..... Littlefield
Maddox, Quanah, 1B ..... Lubbock
Mader, J. C., 1A ..... Poolville
Madry, Kenneth, 3E ..... Levelland
Maeker, Arnold, 2E ..... Wilson
Magee, Dorothy, 2G ..... Levelland
Mahoney, Grace L., 4B ..... Shallowater
Malcolm, Ona, 3B ..... Brownfield
Mallard, Billy J., 2E ..... Hillsboro
Mallett, Mildred, 1G ..... Lubbock
Malone, Harrison, 1E ..... Merkel
Malone, Irene, 5G ..... Lubbock
Malone, Madge, 1G ..... Lubbock
Malone, Maurice, 1A ..... Shallowater
Malone, Sarah, 3S ..... Merkel
Maloney, Claude, 1A ..... Goree
Maloney, Norma, 1B ..... Roscoe
Maner, Dalton, 2A ..... Hillsboro
Mann, Betty, 1H ..... Handley
Mann, Bill, 1B ..... Vernon
Mannan, Dorothy Ann., 1G ..... Dallas
Manning, J. O., Jr., 1G ..... Lubbock
Mapes, Clois P., 2E ..... Winters
Mara, Helen, 2Ed ..... Decatur
Marcom, Preston J., 5Ed ..... Levelland
Marcy, Owen, 1A ..... Lubbock
Markham, Beulah Rae, 1S ..... Ropesville
Markham, George R., 1B ..... Mercedes
Markham, Sara Belle, 1B ..... Sudan
Marks, Anna Ruth, 2B ..... Idalou
Marr, Lorraine, 1H ..... Rotan
Marrs, Verne, 2E ..... Paducah
Marshall, Don, 1G ..... Buffalo, Wyo.
Marshall, Elwyn, 4B ..... Whitesboro
Marshall, James, 2Ed ..... Coahoma
Marshall, John, 3E ..... Lubbock
Marshall, Mrs. Louester Higgins, 4H .....
..... Lubbock
Marshall, W. Carl, 4S ..... Floydada
Marshall, Wilburt, 1A .... Ft. Sumner, N. M.
Martin, Arthur, 2E ..... Lubbock
Martin, Billy, 1E ..... Lubbock
Martin, Charles D., 2A ..... Corsicana
Martin, Dick, 1B ..... Eastland
Martin, F. Johnnie, 1A ..... Westover
Martin, George, 1G ..... Silverton
Martin, Jay, 2S ..... Lubbock
Martin, J. P., 3A ..... Lubbock
Martin, Julia Margaret, 4G .. Grand Prairie
Martin, Margaret, 1H ..... Lometa
Martin, Mozelle, 1B ..... Lubbock
Martin, Ruben Edward, 4G ..... Memphis
Martin, Travis, 1A ..... Lubbock
Martin, Wanda, 1G ..... Balmorhea
Martin, Willard, 2B ..... Lamesa
Marxen, Bob, 2E ..... Houston
Mask, Bownds, 1G ..... Levelland
Mason, Gladys, 4H ..... Crane
Mason, Herman, 2E ..... Rusk
Mason, Jojo, 2G ..... Pawhuska, Okla.
Mason, Marian Lee, 2Ed ..... Post
Masoner, Clifton, 1E ..... Lubbock
Massingill, Zena Mae, 1G ..... Borger
Mast, John Franklin, 1E ..... Lubbock
Masten, Bonnie, 1H ..... Amherst
Masten, Charlene, 1H ..... Sudan
Masten, Edith, 4H ..... Plainview
Masters, Hardy, 5S ..... Lubbock
Masterson, James Emery, 1G .... Estelline
Masterson, R. B., 3B ..... Truscott
Mathews, Bill, 2E ..... Pampa
Matthews, Ersel, 4E ..... Floydada
Matthews, Marjorie, 1S ..... Odessa
Matthews, Richard, 4E ..... Denver City
Matthews, Mrs. Virlea, 2Ed ..... Lubbock
Mauldin, D. B., 1E ..... Breckenridge
Mauzey, W. C., Jr., 1B ..... Blackwell
Maxey, Elizabeth, 1G ..... Ft. Worth
Maxwell, B. A., Jr., 1B ..... Grapeland
May, Aliene, 3S ..... Westbrook
May, Annetta, 4H ..... Sweetwater
May, Carey, 4A ..... Lubbock
May, Florene, 2H ..... Lockney
Mayfield, Pat, 1E ..... Roby
Maynard, Curtis, 1S ..... Amarillo
May, Craig, 1G ..... Kermit
Mays, Page, 2G ..... Santa Anna
Meading, Evelyn, 2H ..... Slaton
Meading, Miriam, 1H ..... Slaton
Meador, Byrdie Mae, 2H ..... Lorenzo
Meadows, Barkley, 1B ..... Ft. Worth
Mears, Wayne, 3A ..... Fluvanna
Mebus, Katherine, 2B ..... Tornillo
Medford, Wade, 1G ..... Wichita Falls
Medlin, Pauline, 2Ed ..... Bula
Medlock, Ruth, 1H ..... Lubbock
Meekma, Florence, 4G ..... Olton
Meinecke, Charles, 1S ..... Lubbock
Meinrath, Dorothy, 1G ..... Beeville
Melanson, Beverly C., 1E ..... Ft. Worth
Mellody, Weldon, 1A ..... Royse City
Melton, Jack, 1E ..... Amherst
Mendell, Herman H., 2E ..... Houston
Meredith, Dan T., 2S ..... Lubbock
Meredith, Jim Tom, 1E ..... Athens
Meredith, Ruby Faye, 4B ..... Lubbock
Meredith, Stanley, 1G ..... Carbon
Merket, Gerald, 2S ..... Cisco
Merrell, Lynette, 2G ..... Shallowater
Messersmith, Frank, 3E ..... Ft. Worth
Messick, Nita, 4B ..... Wellington
Meyers, Juanita, 4H ..... Lubbock
Meyers, Thelma, 4Ed ..... Hobbs, N. M.
Meyers, Zada Bea, 1B ..... Hobbs, N. M.
Michael, H. D., 1E ..... Holliday
Michie, Lee, 4S ..... Lubbock
Mickey, Wendell, 1E ..... Plainview
Middleton, Mary Louise, 5B ..... Lubbock
Midyett, Wilson M., 4E ..... Breckenridge
Mikeska, Emmitt, 1A ..... Paint Rock
Milburn, Carlton, 1A ..... Cresson
Milburn, Wilma, 4H ..... Cresson
Miles, Mark, 1A ..... Dallas
Miller, Annie Faye, 4H ..... Morton
Miller, Harriette, 2E ..... Lubbock
Miller, James, 2E ..... Lubbock
Miller, John O., 4E ..... Meadville, Pa.
Miller, John W., 2S ..... Lubbock
Miller, Johnnie, M., 2H ..... McAdoo
Miller, Kelton, 1S ..... Pampa
Miller, Lawrence, 1G ..... Lubbock
Miller, Marilyn, 1G ..... Lubbock
Miller, Marjorie, 2H ..... Fabens
Miller, Mary Etta, 1G ..... Lubbock
Miller, Mary Lois, 4H ..... Lubbock
Miller, Nancy Ann., 1E ..... Lubbock
Miller, Orba, 3A ..... Floydada
Miller, Richard, 2E ..... Ozona
Miller, Thelbert, 1A ..... Seymour
Miller, Verl L., 2H ..... Floydada
Miller, Welborn, 2A ..... Floydada

Miller, W. H., 3B ..... Snyder
Miller, Wm. Sherwood, 3E ..... Holliday
Millikin, J. Homer, 5Ed ..... Lubbock
Mills, Arthur, 4A ..... Sterling City
Mills, Eddie, 1E ..... Santa Anna
Mills, Eldred, 2E ..... Oakkley, Idaho
Mills, George Lee, 2G ..... Lubbock
Mills, J. V., Jr., 4B ..... Dumas
Millsap, Jack, 1G ..... Lubbock
Milner, Margaret, 1S ..... Cripple Creek
Minor, Doris, 4B ..... Slaton
Minter, Ralph, 1S ..... Como
Mitcham, Mary Ada, 1B ..... Odessa
Mitchell, Bill, 1E ..... Santa Anna
Mitchell, Brownie, 3G ..... Childress
Mitchell, Elizabeth, 1G .... Lovington, N. M.
Mitchell, Frances, 2G ..... Ralls
Mitchell, Frank, 1E ..... Lubbock
Mitchell, Hazel, 4G ..... Lovington, N. M.
Mitchell, J. T., 1E ..... Childress
Mitchell, Orson, 1S ..... Big Spring
Mitchell, Rhea, 1A ..... Lockney
Mitchell, Rosalind, 1G .... Roaring Springs
Mixon, Laverne, 1Ed ..... Whiteface
Mize, Woodrow, 3E ..... Rotan
Moeller, Betty Ruth, 1H ..... Muleshoe
Moffett, Roy, 2A ..... Camp Springs
Monk, Ruth, 1H ..... Lubbock
Monroe, Cary Ann, 1B ..... Sweetwater
Montgomery, Clyde A., 4A ..... Littlefield
Montgomery, Delia, 4G ..... Kress
Montgomery, Lois, 3H ..... Tahoka
Montgomery, Porter, 3G ..... Dalhart
Montgomery, Robert, 1G ..... Longworth
Montgomery, Ross, 1A ..... Darrouzett
Montgomery, William, 1E ..... Longworth
Moody, Bill, 1E ..... Ft. Stockton
Mooney, John P., 3E ..... Ranger
Mooney, Rita, 2G ..... Ranger
Moore, Ann., 1G ..... Shackelford
Moore, Mrs. Bessie H., 3Ed ..... Lubbock
Moore, Dan., 3E ..... Ennis
Moore, Darrell, 1G ..... Lubbock
Moore, Ed., 1E ..... Ft. Worth
Moore, Eleanor, 1B ..... Lubbock
Moore, Elmer, 1B ..... Mineral Wells
Moore, Evelyn, 4G ..... Quitaque
Moore, Gilford, 1G ..... Quitaque
Moore, Hazel, 3H ..... McAdoo
Moore, H. L. P., 4E ..... Bonham
Moore, Howell, 1B ..... Fluvanna
Moore, Jack, 3E ..... Gunnison, Colo.
Moore, Jesse Carl, 3E ..... Dumas
Moore, Lucy, 3H ..... Merkel
Moore, Marjoria, 2H ..... Matador
Moore, Mary Ethel, 3B ..... Lubbock
Moore, Sidney, 3E ..... Ft. Worth
Moore, Syble, 1H ..... Ropesville
Moore, T. J., 1E ..... Lubbock
Moore, Thomas A., 1G ..... Lubbock
Moore, Tom, 4A ..... Roane
Moore, Travis, 2E ..... Lamesa
Moore, Virgil, 1B ..... White Deer
Moore, Zeb., Jr., 2B ..... Memphis
Moorhead, Durward, 3B ..... Meadow
Moorhead, Tom, 2B ..... Brownfield
Moorhouse, Jerry, 1G ..... Benjamin
Mooty, Estha, 3G ..... Earth
Moreau, Grace Ann., 2G ..... Lubbock
Moreman, Ella Norene, 3G ..... Post
Morgan, Aubrey, 4E ..... Athens
Morgan, Evelyn, 1Ed ..... Lubbock
Morgan, Jack, 1E ..... Lubbock
Morgan, J. D., 4E ..... Turnersville
Morgan, J. P., 2A ..... Vernon
Morgan, Lloyd, 3A ..... Lamesa
Morgan, Mary Jane, 2G ..... Hereford
Morgan, Melvin E., 1E ..... Joinerville
Morgan, Ray, 2S ..... Brownwood
Morgensen, Loneta, 1H ..... Lubbock
Morris, Andy, 1G ..... Lubbock
Morris, Clifton, 2G ..... Lubbock
Morris, James C., 3E ..... Ridgeway
Morris, James L., 1E ..... Maypearl
Morris, Joe, 1G ..... Canyon
Morris, John, 1B ..... Rule
Morris, Milton, 5A ..... Canyon
Morris, Nanetta, 3H ..... Clarksville
Morrison, Billy, 1E ..... Lubbock
Morrison, David B., 2E ..... Lubbock
Morrison, Ed, 2S ..... Colorado City
Morrison, Ernest, 1G ..... Van Alstyne
Morrison, Foch, 1B ..... Lubbock
Morrison, Jack, 1G ..... Colorado City
Morrison, L. C., 2G ..... Slaton
Morter, Willis, 1E ..... Plainview
Morton, Stephen Julon, 1G ..... Cleburne
Mosley, Edith, 2H ..... Friona
Moseley, Hubert, 1A ..... Rochelle
Moseley, John, 1A ..... Hermleigh
Moss, Ennis, 1S ..... Lubbock
Moss, H. G., 1G ..... Ft. Worth
Moss, LaVern, 1A ..... Whiteface
Moss, Milton, 1G ..... Lubbock
Moxley, John Robert, 1B ..... Lubbock
Mueller, Clara, 1G ..... Roscoe
Mullins, James, 2B ..... Grapevine
Munice, James, 1E ..... Lubbock
Murdough, James, 1E ..... Lubbock
Murray, Thomas F., 2G ..... Ft. Worth
Murray, Tom, 4A ..... Hobbs, N. M.
Musick, Elizabeth, 2G ..... Lubbock
Musick, George L., Jr., 2G ..... Lubbock
Musick, Marjorie, 1B ..... Tulia
Myers, Harold, 1E ..... Melrose, N. M.
Myers, Jack, 4S ..... San Angelo
Myrick, Walter, 2E ..... Lubbock
Nabers, Mary, 2E ..... Pecos
Nabors, Rafe, 2B ..... Brownfield
Nachlinger, Pete, 4E ..... Hermleigh
Nachlinger, Viola, 4H ..... Hermleigh
Nail, Eugene, 1E ..... Lubbock
Neal, Wanda, 1H ..... Dunn
Nall, Carl, 1A ..... Lockney
Nall, Derwood, 1A ..... Loving
Nance, Lewis, 3A ..... Justiceburg
Nance, Lois, 2G ..... Justiceburg
Nash, Jerry, 1E ..... Lubbock
Neal, Frank M., 4E ..... Amarillo
Neal, Gayle, 2A ..... Amarillo
Neal, Helen, 4Ed ..... Lubbock
Neal, Jack, 1E ..... Honey Grove
Neal, Truman, 3B ..... San Antonio
Neel, Sibley, 1E ..... Coahoma
Neeley, J. E., 1E ..... Lamesa
Neeley, Koy, 4A ..... McAdoo
Neely, Jim, 5A ..... Abilene
Neelley, Dorothy Edwina, 1H ..... Waco
Neely, Lloyd, 1G ..... Littlefield
Neely, Lucille, 3H ..... Brownfield
Nelson, Alan, 1E ..... Lubbock
Nelson, George, 1E ..... Rusk
Nelson, Glen, 1A ..... Dimmitt
Nelson, Gordon, 1A ..... Whitesboro
Nelson, Jack, 4E ..... Lubbock
Nelson, Joe, 1B ..... Lubbock
Nelson, Jones Pratt, 1A .... Hughes Springs
Nelson, Loeta, 1Ed ..... Shallowater
Nelson, Nathaniel, 4A ..... Clifton
Nelson, Ralph, 2A ..... Amarillo
Nelson, Walter, 1G ..... Wellington
Nelson, William, 1S ..... Lubbock
Neves, Douglas, 1B ..... Bell
New, Earl, 3B ..... Skellyton
New, Joe, 1E ..... Skellytown
New, Warren Paul, 2G ..... Skellytown
Newell, Robert, 4E ..... Lubbock
Newell, Virginia, 1G ..... Hereford
Newgent, Dorothy, 3B ..... Littlefield
Newman, W. A. (Bill) 1B ..... Childress
Newman, Wendell, 1G ..... Lockney
Newsom, Lorene, 3H ..... Littlefield
Newsom, Young, 2E ..... Sonora
Newton, Beth, 2G ..... Dougherty
Newton, Ermon, 1G ..... Lubbock
Newton, Fern, 2B ..... Lubbock
Newton, Madison, 1G ..... Anton
Newton, Odell, 1A ..... Baileyboro
Newton, Roxie, 1H ..... Lubbock
Nichols, Erma, 4Ed ..... Vernon
Nichols, Glenn, 1G ..... Abilene
Nichols, James T., 2E ..... Tulia
Nichols, Johnny, 1B ..... Spur
Nichols, Neal, 1S ..... Borger
Nicholson, Gary, 1Ed ..... Ft. Stockton
Nickell, Gene, 1G ..... Lampasas
Nickens, Annie, 3G ..... Santa Anna
Nicks, Jack, 2G ..... Hereford

Nippert, Winston, 4E ..... Clarendon
Nislar, James, 1G ..... Lubbock
Nivin, Billy, 2A ..... Roby
Nix, Bertha Elizabeth, 2G ..... Abernathy
Nix, Frank, 1G ..... Abernathy
Noble, Ray, 2G ..... Wichita Falls
Nobles, Melvin, 4E ..... Hawley
Norman, Ray, 2E ..... Pampa
Norman, Virginia, 1B ..... Lubbock
Norris, John Louis, 2E ..... Idalou
Northen, Thomas J., 4E ..... Lorenzo
Norton, Chas., 1E ..... Olney
Norwood, Jo Ann., 1B ..... Vernon
Nowell, Truman, 4E ..... Athens
Nowlin, D. H., 1A ..... Vernon
Noyes, Wm. E., 3E ..... Midland
Nugent, Mary, 1H ..... Seymour
Nunley, Floyd, 1G ..... Benjamin
Nunnally, Almarine, 4H ..... Gail
Nystel, Archie, 4E ..... Abernathy
Oakley, Carrie Helen, 1H ..... Wink
Oakley, Robert, 2S ..... Ft. Worth
Oats, Elizabeth, 1G ..... Lubbock
Oats, Zane, 2S ..... Lubbock
O'Bryant, Leslie, 4H ..... Lubbock
O'Connor, Robert, 2S ..... Dallas
O'Dell, Irless M., 3A ..... Lubbock
Ogden, Emadel, 1Ed ..... Texanna, Okla.
Ohlenbusch, Louise, 3H ..... Goldthwaite
Oldham, Frances Horn, 1E ..... Crosbyton
Olinger, Bill, 1E ..... Garland
Oliver, Elwanda, 1H ..... Lamesa
Oliver, Sherrill, 2E ..... Winters
O'Neal, Allen James, 1G ..... Gainesville
O'Neal, Emalu, 1G ..... Lubbock
O'Neal, Harold, 4G ..... Panhandle
O'Neal, Virginia Lee, 1G ..... Panhandle
O'Neal, John, 3A ..... Lubbock
Onstead, Billy Jo., 2B ..... Ennis
O'Rear, Jacques, 4S ..... Lorenzo
Ormand, Doris, 1B ..... Sudan
Orr, J. W., 4A ..... Odessa
Orr, Milton, 1E ..... Happy
Orr, Rollin, 5S ..... Hereford
Orr, Woodrow, 2E ..... Happy
Ortiz, James, 3B ..... Lubbock
Osborn, Earl, Jr., 2E ..... Tulia
Oswalt, Maxwell Crayton, 1B ..... Dallas
Overby, Howard, 1E ..... Stamford
Overton, Elbert, 4A ..... Abernathy
Owen, Harold, 3E ..... Jacksonville
Owen, Max, 3S ..... Harris, Okla.
Owen, Nick R., 5A ..... Jacksboro
Owens, Calvin, 1E ..... Wichita Falls
Owens, Marcus, 2E ..... Lubbock
Pace, Clark, 1A ..... Bowie
Paden, Cleo, 1A ..... Lubbock
Padgett, Delilah Gail, 4B ..... Levelland
Page, Mack, 1E ..... Wink
Page, Refa, 1G ..... Shallowater
Palmer, Bob, 1B ..... Ranger
Palmer, Maudie, 1H ..... Floydada
Palmer, Ray, 1A ..... Clarendon
Pardue, G. V., Jr., 4B ..... Lubbock
Parish, Leonard, 2A ..... Iowa Park
Park, William Bryant, 1E ..... Sudan
Parker, James, Jr., 1E ..... Midland
Parker, John Herman, 1B ..... Peacock
Parker, Juanita, 1G ..... Lubbock
Parker, Natalie, 2Ed ..... Garden City
Parker, Rachel, 1Ed ..... Tulia
Parks, Bill, 3B ..... Pampa
Parks, Dorothy, 3G ..... Girard
Parks, Leo N., 2E ..... Lubbock
Parks, Roy Wendal, 1B ..... Big Spring
Parmer, Ernest Joe, 3B ..... Miles
Parnell, Gladys Ruth, 2B ..... Lubbock
Parnell, Martha, 1G ..... Lubbock
Parris, Berniece, 4H ..... Shallowater
Parris, Jane, 1E ..... Amarillo
Parris, Olin, 1A ..... Wilson
Parrish, Clifford Marion, 4E ..... Lubbock
Parrish, Washington D., 1B ..... Carey
Parsons, Raymond, 3B ..... Abernathy
Partin, Elsie Pendleton, 3H ..... Wilson
Partin, J. W., 4G ..... Lubbock
Paschall, Clyde, 1A ..... Lubbock
Pate, Olton, 1A ..... Lakeview
Patterson, Donald, 2B ..... Dallas
Patterson, Ira, 1H ..... Lubbock
Patterson, (John) Leo, 3E ..... Lubbock
Patterson, Murry, 2S ..... Big Spring
Patterson, Rachel, 1H ..... Merkel
Patterson, Rosemary, 2G ..... Lubbock
Patterson, Truett, 4E ..... Merkel
Patton, Howard Brady, 1A ..... Alba
Patton, Jack C., 1E ..... Wichita Falls
Patton, Jack Frank, 1E ..... Lubbock
Patton, (Consuelo)Maurine, 4B .... Lubbock
Patty, Evelyn, 3H ..... Waco
Paulger, Claude, 4S ..... Lubbock
Pavich, Jesse, 1E ..... Lubbock
Paxton, Mary, 1E ..... Sweetwater
Payne, Cliff, 1E ..... Hale Center
Payne, David Person, 1B ..... Whiteface
Payne, Emory, 1S ..... Lubbock
Payne, Glen, 4S ..... Lubbock
Payne, John, 2G ..... Hale Center
Payne, Louise, 4G ..... Slaton
Payne, Lucille, 1H ..... San Augustine
Payne, Lucy Mary, 1H ..... San Augustine
Payne, Mary Jane, 1B ..... Lubbock
Payne, P. L., Jr., 1E ..... Lubbock
Payne, Rilla Catherine, 4B .... Colorado City
Payne, Thelma, 1G ..... Levelland
Peach, Alvin, 1E ..... Bovina
Peach, Charles, 4G ..... Bovina
Pearson, Myrtle Lois, 4H ..... Lorenzo
Pearson, Penrod, 3G ..... Waco
Pearson, Virginia, 3G ..... Weatherford
Peavy, Doris, 3G ..... Slaton
Peays, Buford, 1E ..... Robert Lee
Peays, Tom, 4A ..... Robert Lee
Peckham, Miriam, 1G ..... Amarillo
Peden, Ruth, 4H ..... Lubbock
Pederson, Clyde, 4S ..... Clifton
Pederson, James Henry, 1E ..... Ft. Worth
Pederson, Mart G., 5A ..... Lubbock
Pederson, Sylvan, 4A ..... Clifton
Peek, Argo, 5G ..... Lubbock
Peek, Christeene, 3Ed ..... Lubbock
Peeples, Doris, 2G ..... Lubbock
Pelto, Bruce, 1E ..... Baltimore, Maryland
Pemberton, Delton, 1S ..... Tahoka
Pender, Louie, 1E ..... Jal, N. M.
Pendleton, Mildred, 1B ..... Stratford
Pendleton, Robert, 4B ..... Stratford
Pendleton, Ruby, 1H ..... Wilson
Pendley, Mavis, 2E ..... Lubbock
Penick, Russell, 3A ..... Rule
Penney, Hulen J., 1G ..... Lubbock
Percival, Robert, 3B ..... Lawton, Okla.
Perdue, Theodore, Jr., 1A ..... Haskell
Perez, Rodolfo, 2E ..... Premont
Perkins, Annie Belle, 1H ..... Lubbock
Perkins, Elaine, 1Ed ..... Lubbock
Perkins, Loraine, 2Ed ..... Lubbock
Perkins, Myra Ann, 5G ..... Lubbock
Perkins, Robert G., 1G ..... Eastland
Perkins, Thera, 1H ..... Delwin
Perrin, Thomas Woodrow, 3A ..... Weinert
Perry, Genevra, 1G ..... Lubbock
Perry, Howard, 1B ..... Rule
Perry, Lee, Jr., 4E ..... San Anotnio
Perry, Max, 1A ..... Brownfield
Perry, Susan, 2S ..... Lubbock
Perryman, Bob, 3E ..... Denison
Persons, Tom, 1B ..... Quitaque
Peterson, Derwood, 1G ..... Lamesa
Peterson, Marvin, 1E ..... Lamesa
Peterson, Ulysses, 4E ..... Plainview
Pettit, Homer, 1S .... Grosse Pointe, Mich.
Pettus, Winston, 4A ..... Graham
Petty, Virginia, 1H ..... Hollis, Okla.
Pfennig, Walter F., 3S ..... Austin
Pharr, Cecile, 1H ..... Abernathy
Pharr, Vernon, 2A ..... Brownfield
Phelps, Richard, Jr., 1E .... Trinidad, Colo.
Phillips, Ben, 1A ..... Levelland
Phillips, Billy, 1E ..... Lubbock
Phillips, Carthon, 2A ..... Farwell
Phillips, Claude, 1E ..... Sudan
Phillips, H. D., Jr., 2S ..... Lubbock
Phillips, Helen, 1B ..... Abernathy
Phillips, John L., 2B ..... Dallas
Phillips, Philip, 2S ..... Borger
Phillips, Raymond, 5B ..... Lubbock
Phillips, Samuel, 1E ..... Abilene

Phipps, Foch, 1A ..... Littlefield
Pickens, Evelyn, 3Ed ..... Spur
Pickens, Troy, 4B ..... Slaton
Pickett, Edgar, 2G ..... Lubbock
Pieper, Delmon, 1A ..... Loraine
Pieratt, Helen, 4B ..... Crosbyton
Pierce, Carter, 2G ..... Lubbock
Pierce, Dorwin, 1A ..... Littlefield
Pierce, Homer, 1E ..... Ashland, Ky.
Pierce, Joe E., 2G ..... Lubbock
Pierce, Milton, 2A ..... Plainview
Pigman, Bill, 1E ..... Hermleigh
Pike, John, 3S ..... San Angelo
Piner, Winifred, 2G ..... Big Spring
Pinkerton, Cecil, 3S ..... Plainview
Pinkerton, Helen, 2H ..... Plainview
Pinkerton, Thurman, 2E ..... Lefors
Pinkstaff, Bill, 2G ..... Yale, Okla.
Pinkston, Herbert, 4E ..... Wichita Falls
Pipes. Wayne, 1G ..... Lubbock
Pipes, Wendel, 1B ..... Lubbock
Pipkin, Mary Emma, 1G ..... McAdoo
Pirtle, Sibyl Anne, 4Ed ..... Tahoka
Pitts, Billie Joe Chastain, 1H .... McCamey
Pitts, Carl Elton, 3E ..... Crane
Pitts, Frances Ray, 2H ..... Amarillo
Pitts, Jack, 2A ..... Amarillo
Pitts, James C., 4E ..... Amarillo
Pittson, Charles, 1G ..... Lubbock
Plants, Martha Frank, 1B ..... Seymour
Platt, Mary Ellen, 2H ..... Oxford, La.
Plummer, Evelyn, 4H ..... Hereford
Poff, Clarence, 2E ..... Post
Poff, Doyle, 1E ..... Post
Poizner, Erwin, 4E ..... Lubbock
Polk, Louise, 1H ..... Littlefield
Pollard, Dorothy, 1G ..... Concho
Pool, Edward, 1E ..... Dallas
Pool, Maurice, 3G ..... Kermit
Poole, Charles, 1E ..... Plainview
Poole, Claudine, 1H ..... Lubbock
Pope, Billy 2E ..... Henrietta
Portele, John R., 4B ..... Marlin
Porter, William, 3E ..... Lubbock
Porterfield, Dorothea, 3E ..... Amarillo
Porterfield, Jack, 1E ..... Slaton
Porterfield, Scott, 1E ..... Wichita Falls
Poteet, Clovis, 1A ..... Olton
Poteet, Leora, 1H ..... Anton
Poteet, R. B., 1A ..... Olton
Poteet, Sybil, 5G ..... Ralls
Potter, Ruth Erskine, 5H ..... Temple
Potts, Bill, 3B ..... Lubbock
Pounds, Guinn, 1E ..... McCamey
Pounds, Robert, 2E ..... Booker
Powell, Blanche, 3E ..... Iowa Park
Powell, C. A., 3S ..... Memphis
Powell, Elizabeth, 1G ..... Spur
Powell, Imogene, 1Ed ..... Lubbock
Powell, J. Otis, 3E ..... Nogales, Mexico
Powell, Martha Lucille, 1H ..... Lubbock
Powell, Sherrill, 1S ..... Lubbock
Powell, Wesley, 3E ..... Clarendon
Power, Analara Greer, 4 G..... Lubbock
Power, Bill, 2E ..... Lubbock
Power, Mary H., 1G ..... Lubbock
Powers, Georgia Lee, 1G ..... Sudan
Powers, Leon, 1S ..... Slaton
Powers, Ted, 1A ..... Barksdale
Powers, Woodrow, 4S ....Lubbock
Prange, Edna, 1G ..... Cisco
Pratas, Chris, 2E ..... Lubbock
Prather, Jack, 2E ..... Lubbock
Prather, Nash, 1A ..... Greenville
Pratt, Mildred, 4H ..... Willis
Precure, DeWitt, 1S ..... Muleshoe
Prestridge, Barney, 2S ..... Lubbock
Price, Howard, 4B ..... Lubbock
Price, James, 1A ..... Tahoka
Price, Lewis, 1A ..... Roby
Price, Martha, 2H ..... Pampa
Price, Mary, 3H ..... Pampa
Price, Norma, 2S ..... Lubbock
Price, Polly, 1G ..... Childress
Price, Ruth, 2G ..... Morton
Price, Winona, 2H ..... Estelline
Prickett, Jane, 2B ..... Lubbock
Prickett, Tom, 2E ..... Mexia
Priddy, John, 1G ..... Houston
Prideaux, Tom, 2S ..... Lubbock
Priebe, Frances, 2G ..... Wink
Priebe, Helen, 4H ..... Wink
Pritchett, James, 1B ..... Lubbock
Pritchett, Joe, 1B ..... Lubbock
Pritchett, Louise, 1Ed ..... Colarado City
Progress, Rowland, 1E ..... Houston
Pruit, Burl, 1E ..... Blackwell
Pruitt, Katherine, 2G ..... Sparenberg
Puckett, Brode, 4G ..... Post
Pulley, Elsie, 4H ..... Cisco
Pumphrey, Ruth, 1B ..... Littlefield
Pursley, W. D., 1G ..... Miami
Putty, Ross, 2A ..... Lubbock
Qualia, Jeanne, 1H ..... Lubbock
Qualls, Jack, 2G ..... Benjamin
Quest, Ralph, 1B ..... Lubbock
Ragle, Burney, 2A ..... Olton
Ragsdale, Jimmy, 1B ..... Childress
Rahlfs, O. H., Jr., 1A ..... Happy
Rainey, Elvin W., 1E ..... Dalhart
Rains, Bernice Maurine, 1H ..... Lubbock
Rainwater, Eugene, 4G ..... Vernon
Rail, Marvin C., 3S ..... Ft. Worth
Ramey, Robert, 1A ..... Dimmitt
Ramsey, Gerald, 4Ed ..... Lockney
Ramsey, Leonard, 1A ..... Honey Grove
Ramsey, Ray, 1B ..... Floydada
Ramsey, Woodrow, 3G ..... Chillicothe
Randolph, Wallace, 2A ..... Lubbock
Range, Byron, 2A ..... Dallas
Rankin, Murvel, 5G ..... Lubbock
Rankin, Robert, 3E ..... Midland
Rankin, Walter, 2G ..... Colorado City
Rannefeld, Clarence, 5E ..... Roscoe
Ranson, Van, 1E ..... Wilson
Rapstine, Frank, 2A ..... White Deer
Rasberry, Dayle, 2B ..... Ackerly
Rash, Glenn, 1A ..... Terrell
Rash, Wayne, 4E ..... Holdenville, Okla.
Rasi, Sonia, 2E ..... Pampa
Rasmussen, Paul, 1S ..... Seagraves
Ratliff, L. V., Jr., 1G ..... Levelland
Rawlins, Addison, 2E ..... Galveston
Ray, James, 4E ..... Lubbock
Ray, Jeff, 4B ..... Belton
Ray, Jess, 3S ..... Bivins
Raynolds, David, 2A ..... Sulphur Springs
Rea, Frank, 2B ..... Longview
Rea, Ila Davis, 1G ..... Jal, N. M.
Read, Barbara Ann, 1G ..... Lubbock
Read, Marian Hope, 2Ed ..... Lubbock
Read, Ruby Lea, 1H ..... Lamesa
Reast, Kenneth, 3A ..... Whitesboro
Rector, Kenneth, 1A ..... Hermleigh
Red, Franklin S., 1E ..... Wortham
Reddell, Anita, 3Ed ..... Tahoka
Reddell, D. F., 1E ..... Tahoka
Redding, Paul, 2E .... Punxsut..awney, Pa.
Redford, Mrs. Imogene, 1Ed .... Brownfield
Redford, Logan, 4S ..... Brownfield
Reding, Oneida, 3H ..... Whitharral
Redline, Leland, 1E ..... Lubbock
Reece, Geraldine, 4B ..... Lorenzo
Reed, Cora Lee, 1B ..... Lubbock
Reed, J. Russell, 4A ..... San Angelo
Reed, Mrs. Lottie, 3H ..... Lubbock
Reed, Marguerite, 2G ..... Big Spring
Reed, Sumner, 2G ..... Lubbock
Reed, Mrs. Virginia, 2G ..... Plainview
Reed, Wallace, 1B ..... Wickett
Reed, Zenoba, 1H ..... Cone
Reese, Sylvester, 5B ..... Tahoka
Reeser, Wayne (Mrs.) 1H ..... Lubbock
Reeves, Randall, 4A ..... Welch
Regal, Ed., 1E ..... Amarillo
Reid, Ernest Lee, 1G ..... Lubbock
Reid, Jack, 1E ..... Midland
Reid, Kenneth Eugene, 2B ..... Plainview
Reid, Raymond, 3S ..... Levelland
Reinhart, Arthur S., 4E ..... Del Rio
Reinhold, Claudia, 2H ..... Lubbock
Reinhold, Shirley, 2H ..... Lubbock
Renfroe, Charles Albert, 1S ..... Amarillo
Renfrow, Rosa Lee, 2B ..... Muleshoe
Rettig, Charles Edward, 1E .... Henderson
Revier, Frank, Jr., 1B ..... Lubbock
Revier, Mary Louise, 1E ..... Lubbock
Reynolds, Helenoire, 4H ..... Lubbock

Reynolds, Mary Katherine, 2H ..... Quanah
Reynolds, Paul, 2B ..... Petersburg
Reynolds, Rolan Hugh, 1G ..... Shamrock
Reynolds, Weldon, 1A ..... McCaulley
Rhea, Earl W., 2S ..... Woodlake
Rhodes, Letha Evelyn, 1G ..... Houston
Rhodes, Reuby Tom, 1H ..... Lubbock
Rice, William Glen, 1B ..... Lipscomb
Rice, Mary Katherine, 3Ed ..... Lubbock
Rice, Otto Pete, 1B ..... Pampa
Rice, Sarah Elizabeth, 2G ..... Ropesville
Richards, Hubert, 1A ..... Estelline
Richards, William B., 2S ..... Lubbock
Richardson, Irma, 1G .. Albuquerque, N. M.
Richardson, Orville, 4A ..... Slaton
Richardson, Wayne, 1A ..... Slaton
Richerson, Hazle, 3H ..... Hamilton
Richeson, Walter W., 1E ..... Lubbock
Richey, Howard, 2E ..... Afton
Richey, Murl, 1H ..... Afton
Richter, Billie Mae, 1G ..... Abernathy
Richter, Gertrude, 3B ..... Abernathy
Richter, Hugo Ernst, 4E ..... Abernathy
Riek, Irene, 1B ..... Lubbock
Riek, Melba Emily, 2B ..... Eastland
Riggs, Marilyn, 2G ..... Lubbock
Riley, Denny, 1A ..... Millersview
Riley, Martin, 3A ..... Millersview
Ripley, Merlin, 1B ..... Gordon
Risinger, Wallace, 1G ..... Roscoe
Risinger, William, 3B ..... Altus, Okla.
Ritchie, Mrs. Mary F., 3B ..... Lubbock
Ritter, Inez, 2B ..... Sweetwater
Ritter, L. A., Jr., 2B ..... Sweetwater
Rives, Joe, 2E ..... Borger
Rives, Johnson Bill, 1B ..... Borger
Roach, Clayton, 3A ..... Lockney
Roach, Neal, 1E ..... Anton
Robb, David, 1G ..... Gainesville
Robbins, Jeff, 1A ..... Ft. Worth
Robbins, Kenneth, 1E ..... Dallas
Roberson, Gladys, 3G ..... Spur
Roberson, Ireta, 1E ..... Lockney
Roberts, Arthur, 1A ..... Levelland
Roberts, Bill, 2S ..... Farwell
Roberts, Charles, 2G ..... Andrews
Roberts, Dick, 3S ..... Hollywood, Calif.
Roberts, Essa Lee, 4Ed ..... Rotan
Roberts, Evan, 1G ..... Memphis
Roberts, J. A., 1G ..... Skellytown
Roberts, Margaret Jane, 2E ..... Amarillo
Roberts, Sycily J., 2G ..... Lubbock
Roberts, William John, 3A ..... Memphis
Robertson, Beryl, 3H ..... Tahoka
Robertson, C. Ernest, 2E ..... Lubbock
Robertson, Edith, 2B ..... Tahoka
Robertson, James, 2E ..... Aspermont
Robertson, Joe W., 1E ..... Colorado City
Robertson, Melvin, 1E ..... Lubbock
Robertson, Winston, 2B ..... Lorenzo
Robinson, Edith Lucile, 5B ..... Lubbock
Robinson, Geraldine, 1G ..... Littlefield
Robinson, Helen, 1B ..... Lubbock
Robinson, Jack, 2E ..... Capitan, N. M.
Robinson, Jack, Jr., 1E ..... Paducah
Robinson, J. C., 1S ..... Kosse
Robinson, John, 1A ..... Seymour
Robinson, L. E., 1B ..... O'Donnell
Robinson, Lometa, 1B ..... O'Donnell
Robinson, M. H., 1E ..... McAllen
Rochelle, Letia, 1S ..... Alamogordo
Rochelle, Winton, 5E ..... Amherst
Roddy, Wesley M., 3A ..... Denison
Rodgers, Earl, 1E ..... Wichita Falls
Rodgers, J. T., 2A ..... Lubbock
Rodgers, Rose Jean, 4G ..... Post
Rodgers, Sidney, 1E ..... Plainview
Rodgers, William Davis, 1E ..... Winters
Rodgers, Wilma, 2H ..... Lubbock
Roebuck, Owen, 3E ..... Olton
Rogers, D. Jane, 1Ed ..... Lubbock
Rogers, Lometa Faye, 4H ..... Arlington
Rogers, Marion, 4B ..... Lubbock
Rogers, Melbourne Arol, 1E .... Breckenridge
Rogers, Pauline, 3H ..... Idalou
Rogers, R. K., 4A ..... Lubbock
Rogers, Ray, 2B ..... Allison
Rogers, Roy, 1A ..... Tulia
Rogers, Ruth, 2S ..... Plainview
Rogers, Sidney, 3A ..... Lubbock
Rogers, Thomas Edwin, 3B ..... Lubbock
Rogers, Thomas Edmund, 1B .. Hobbs, N. M.
Rogers, Vesta Grace, 2H ..... Lubbock
Rolley, Hal, 1E ..... Joinerville
Rollins, Grace, 3Ed ..... Littlefield
Romans, Tom, 3E ..... Lampasas
Romine, John W., 2E ..... Valley Mills
Roney, Robert, 4S ..... Amarillo
Roper, Bauman, 4G ..... Bullard
Rorex, Alice, 4H ..... Panhandle
Rose, Bernice, 4G ..... Ropesville
Rose, Glenn, 4E ..... Roaring Springs
Rose, Juanita, 2H ..... McAdoo
Rose, Nuge, 2A ..... McAdoo
Rose, Rex, 2B ..... Pampa
Rosenquest, Helen, 2G ..... Eastland
Ross, Floyd, 1E ..... Hereford
Ross, Harold, 1G ..... Rusk
Ross, Juanita, 2B ..... Lubbock
Ross, Olen, 3S, ... Littlefield
Rosson, Renal, 2B ..... Snyder
Rountree, John B., 4S ..... Lubbock
Rountree, Lola Frances, 1B .... Hale Center
Rowland, Dorthe, 1B ..... Sweetwater
Rowland, Hugh, 1E ..... Lubbock
Rowley, Agnes, 3G ..... Pratt, Kansas
Ruble, Mary Elizabeth, 4G ..... Lott
Rucker, Alice, 4H ..... Abilene
Rumple, Lady Jo, 1G ..... Bremond
Rupprecht, Margaret, 4H ..... Perryton
Rush, Naomi, 2H ..... Booker
Rushing, Bonna Lee, 1B ..... Lubbock
Rushing, Eric, 4B ..... Lubbock
Rushing, Norman, 1S ..... Lubbock
Rushing, Roberta, 2H ..... Lubbock
Rushing, Ruth, 3H ..... Lubbock
Russell, Billie Christine, 1H ..... Turkey
Russell, Rendall, 4G ..... Robstown
Russell, W. L. (Bill) 1B ..... Spearman
Rutherford, Jack, 1A ..... Anton
Rutherford, Vivian, 1Ed ..... Anton
Rutledge, Max, 1B ..... Lubbock
Rutledge, Oscar P., 1E ..... Floydada
Rutledge, Paulyne, 1G ..... Childress
Rutledge, Thomas, 3G ..... Childress
Ryan, Moffett, 3A ..... Lubbock
Ryan, Rufus, 4E ..... Dallas
Saffell, Leon, 2A ..... Lubbock
Sain, Dorothy, 1E ..... Big Spring
Salazar, Raymond, 2E ..... Anton
Saliba, Eddie, 2G ..... Blytheville
Sams, Gertrude, 2Ed ..... Benjamin
Sams, Robert L., 3E ..... Benjamin
Samson, Armond, 1E ..... Lubbock
Sander, Lorene, 1G ..... Slaton
Sanders, Irvin W., 4E ..... Amarillo
Sanders, Loyd, 1B ..... Lubbock
Sanders, Louie, 1S ..... Slaton
Sanders, Roy W., Jr., 3S ..... McCamey
Sanders, Vance, 1E ..... Lubbock
Sanderson, Glen, 2A ..... Lubbock
Sanderson, Ouida, 3B ..... Eastland
Sanderson, V. C., 3B ..... Lubbock
Sandidge, G. T., 1G ..... Tarpley
Sandlin, Herman, 1A ..... Swearingen
Sanford, Betty, 2G ..... Lubbock
Sarchet, Edith, 1S ..... Tulia
Sartwelle, Mary, 1B ..... Del Rio
Sasser, Mrs. Rosalyn, 4E ..... Lubbock
Sasser, Wallace, 3E ..... Bonham
Satterwhite, Ned, 1B ..... Texon
Saul, James, 3A ..... Miami
Savage, Betty, 3H ..... Lubbock
Savell, Lucille, 2B ..... Slaton
Scarborough, Pearl, 4H ..... Petersburg
Schilling, Oscar, 2E ..... Amarillo
Schlinkman, George, 4E ..... Dumas
Schulter, Ellene, 2B ..... Roby
Schmid, Robert, 4E ..... Lowell, Ariz.
Schmidt, Gustav Durward, 1A ..... Lamesa
Schneemann, Helen, 1G ..... San Angelo
Schneemann, Phil, 1B ..... Ozona
Schoolcraft, Gertrude, 1Ed ..... Lubbock
Schulkey, Alberteen, 1G ..... Pampa
Schulze, Louise, 1H ..... Panhandle
Schwantz, Dorothy Rose, 1G ..... Lubbock
Schweitzer, Houston, 1E ..... Matador
Sciance, Jeanne, 1B ..... Lubbock

Scoggins, Harper, Jr., 3S .... South Plains
Scoggins, Paul Ben, 2A ..... South Plains
Scott, Billie, 1E ..... Dickens
Scott, Cecil, 1E ..... Whiteface
Scott, Frank M., 2S ..... Lubbock
Scott, Grace, 1G ..... Buckeye, N. M.
Scott, Iley, Jr., 1S ..... Hart
Scott, Lee, 2G ..... Olney
Scott, Lula Alice, 1H ..... Lipscomb
Scott, Prince, 2G ..... Grapevine
Scott, Robert, 2A ..... Sylvester
Scott, Weldon, 2Ed ..... Lamesa
Scribner, Irvine, 3G ..... Mobeetie
Seal, Lawrence, 1A ..... CeeVee
Seale, Eugene, 4S ..... Lubbock
Seale, Georgia, 4G ..... Lubbock
Seale, Carolyn, 3G ..... Lubbock
Searls, Bob, 1G ..... Eastland
Sears, A. C., 4A ..... Merkel
Sears, Clyde, 1A ..... Merkel
Sears, Elizabeth, 2H ..... Amarillo
Selby, William R., 3E ..... Dallas
Self, Lottie, 2B ..... Lamesa
Self, Ruth, 3E ..... Lamesa
Seljos, Rudolph, 3E ..... Clifton
Sellers, Merle, 3H ..... Rising Star
Selman, J. V., 1A ..... Hobbs, N. M.
Selmon, Tony, 1S ..... Stamford
Sentell, Juanita, 4G ..... Snyder
Serrurier, Theodore, 1E .... Eau Claire, Wis.
Settle, Hubert C., 1E ..... Abernathy
Settle, Mary Lucy, 2B ..... Abernathy
Settle, W. T., 1E ..... Abernathy
Sewell, Stewart, 4A ..... Jacksboro
Shackelford, Gordon, 3E ..... Friona
Shackelford, Richard, 3E ..... Bowie
Shaddix, D. Ryland, 1B ..... Shamrock
Shaffer, Garmer, 1G, ... Lubbock
Shaffer, Valoris, 4H ..... Friona
Shahan, Lina Lee, 1H ..... Lipscomb
Shaikewitz, Ted, 1E ..... Eunice, N. M.
Shanks, Jack, 3S ..... Big Spring
Shannon, Perry, 1G ..... Levelland
Sharp, Anna Mayo, 1B ..... Lubbock
Sharp, Frank, 3E ..... Tulia
Sharp, James P., Jr., 2A ..... Tulia
Sharp, L. G., 5S ..... Artesia, N. M.
Sharp, Winnolee, 4H ..... Vernon
Sharpe, Hugh, 3B ..... Detroit
Shattuck, William, 1G ..... Wink
Shaw, Harry, Jr., 2A ..... Lubbock
Sheehan, John W., 5E ..... Hermleigh
Sheehan, Lois, 4H ..... Friona
Sheehan, Richard, 1S ..... Hermleigh
Sheldon, Wichita, 5S ..... Electra
Shellberg, Bob, 2E ..... Ft. Worth
Shelton, Dorma Lee, 1H ..... Merkel
Shelton, Reuann, 1G ..... Hobart
Shelton, Travis, 1B ..... Tahoka
Shelton, Truman, 1G ..... Slaton
Shepard, Juanita, 3H ..... Childress
Shepherd, Bruce, 1A ..... Post
Shepherd, Don, 1E ..... Goose Creek
Sherman, Norma, 1H ..... Mineola
Sherrill, Allyne, 1H ..... Seagraves
Sherrod, Herman, 1B ..... Post
Sherrod, LaWanda, 2H ..... Lubbock
Sherrod, Neoma, 1B ..... Lubbock
Sherwood, Charles, 1E .... Roaring Springs
Sherwood, John, 1B ..... Roaring Springs
Shimotsu, Dorothy, 4H ..... Rangerville
Shipman, Lawrence D., 5A ..... Amarillo
Shipp, Hazel, 2H ..... Lubbock
Shipp, Frances Jess, 2B .... Lovington, N. M.
Shipp, Robert, 2B ..... Ackerly
Shirey, Gerald, 3E ..... Mineola
Shive, Billie Bess, 1G ..... Big Spring
Shoemaker, Freelin, 1B ..... Abilene
Shoemaker, Hart, 3B ..... Abilene
Shofner, Cleabern, 2B ..... Lamesa
Shofner, Nuell, 1E ..... Lamesa
Shofner, Orville, 2G ..... Levelland
Shook, Hope, 4H ..... O'Donnell
Shook, Marie, 4H ..... Sweetwater
Short, Sterling, 2E ....Lubbock
Shortt, James, 2E ..... Shamrock
Shottenberg, Marjorie, 1G ..... Shamrock
Shotwell, James Ed, 2S ..... Littlefield
Shoup, Noel, 3A ..... Dublin
Showalter, B. W., 2A ..... Lubbock
Shows, Lewis, 3E ..... Donna
Shryrock, Betty, 2G ..... Pampa
Shuler, H. C., 2A ..... Snyder
Shytles, Betsy Reeves, 3G ..... Lubbock
Shytles, Grady, 4S ..... Snyder
Shytles, Powell, 1B ..... Snyder
Sides, Geraldine, 3H ..... Lubbock
Sigman, Carroll, 1G ..... Lubbock
Sigman, Stanley, 1G ..... Earth
Simmons, Elaine, 1H ..... Waco
Simmons, Margaret, 2G ..... Pecos
Simmons, Ruth, 1B ..... Quitaque
Simpson, Clem, 1G ..... Graham
Simpson, Curtis, 1A ..... Graham
Simpson, Cymbolene, 1H ..... Whiteface
Simpson, Frankie, 1Ed ..... Graham
Simpson, George L., 2B ..... Amarillo
Simpson, Jack, 1B ..... Abilene
Simpson, Weldon, 2E ..... Waialua, Hawaii
Sims, Dunlap, 1E ..... Paint Rock
Sims, James, 1A ..... Lubbock
Sisson, James, 1B ..... Lubbock
Sitton, Frank, 1A ..... Petersburg
Sitton, Emily V., 1G ..... Petersburg
Sivells, Jean, 1E ..... Durant, Okla.
Skeen, Kelly, 2B ..... Carlsbad, N. M.
Skeen, Lena Marie, 4Ed ..... Lubbock
Skinner, Volney, 1E ..... Perryton
Slater, Cloyd, 1S ..... Sweetwater
Slaughter, Si., 3E ..... Glorieta, N. M.
Slavin, Pat, 1A ..... Clarendon
Slay, Elaine, 3H ..... Albany
Slay, Janie, 1E ..... Albany
Sleeper, J. Lockert, Jr., 5S ..... Waco
Sloan, J. C., 1E ..... Plains
Smallin, L. D., 1G ..... Lubbock
Smallwood, Virginia, 2G ..... Lubbock
Smart, V. C., 1E ..... Spur
Smiley, Olive, 1H ..... Roaring Springs
Smith, Allen, 2S ..... Cumby
Smith, Bernice, 1Ed ..... Lubbock
Smith, Beverly Sue, 2G ..... Ft. Worth
Smith, Billy Jack, 1E ..... Cleburne
Smith, Bryan, 4S ..... Baileyboro
Smith, Civola, 1Ed ..... Dike
Smith, Dallas, 1A ..... Ralls
Smith, Drucilla, 1H ..... Lubbock
Smith, Edna Mae, 1H ..... Floydada
Smith, Elmore, 1Ed ..... Floydada
Smith, Elton C., 1S ..... Skellytown
Smith, Ernest, 1B ..... Colorado City
Smith, Ethel, 4Ed ..... Baileyboro
Smith, Mrs. Evelyn H., 4G ..... Lubbock
Smith, Fern, 4H ..... Big Spring
Smith, Florene, 3G ..... Lubbock
Smith, Geneva, 2G ..... Rising Star
Smith, H. M., Jr., 1E ..... Andrews
Smith, H. Wayne, 3B ..... Springtown
Smith, Ham, 1G ..... Floydada
Smith, Irma, 1B ..... Brownfield
Smith, James, 1G ..... Hedley
Smith, Jerome, 2E ..... Big Spring
Smith, Joe, 1G ..... Dalhart
Smith, Joe Clinton, 1E ..... Holliday
Smith, Joe T., 1A ..... Floydada
Smith, John, 1A ..... Lubbock
Smith, John Everett, 2E ..... Amherst
Smith, John Phillip, 5A ..... Panhandle
Smith, Juanice, 2E ..... Lubbock
Smith, Lola Jean, 3H ..... Lubbock
Smith, Lolie Glynn, 3Ed ..... Groesbeck
Smith, Madlyn, 1H ..... Littlefield
Smith, Margaret, 1Ed ..... Justiceburg
Smith, Marguerite, 1G ..... Skellytown
Smith, Marion, 1B ..... Magic City
Smith, Marjorie, 4B ..... Post
Smith, Naomi, 3H ..... Muleshoe
Smith, Norman, 1A ..... Lubbock
Smith, Orville, 2E ..... Hillsboro
Smith, Raymond, 3E ..... Brady
Smith, W. Raymond, 1G ..... Magic City
Smith, Robert A., Jr., 4E ..... Sherman
Smith, Robert Lee, 3A ..... Lockney
Smith, Roger, 1G ..... Rising Star
Smith, Ruby Nell, 4G ..... Brownfield
Smith, Sybil, 2H ..... Brownfield
Smith, Uda Margaret, 2H ..... Rule
Smith, Velma, 2G ....Plainview

Smith, Vernon, 1B ..... Ralls
Smith, Vinson, 1G ..... Silverton
Smith, Wallace, 1B ..... Snyder
Smith, Wayne W., 3B ..... Levelland
Smith, Wendell, 2E ..... Brownfield
Smith, Wilford, 3G ..... Lubbock
Smith, Mrs. Zelda P., 1H ..... Brownfield
Smithee, Betty Nell, 1G ..... Ropesville
Smoots, Dan, 3S ..... Fritch
Sneed, Doris, 2G ..... Lubbock
Snider, J. D., 4S ..... Lubbock
Snipes, Carmen, 1G ..... Andrews
Snow, Jack, 4S ..... Lubbock
Snow, Russell, 1E ..... Pampa
Snyder, James, 3G ..... Moran
Snyder, Robert, 3B ..... Lubbock
Solomon, Garland, 1A ..... Memphis
Sonntag, Robert, 1E ..... Dallas
SoRelle, Emily, 4E ..... Amarillo
SoRelle, Florence, 1E ..... Amarillo
Southard, Byron, Jr., 1E ..... Lamesa
Sowell, Maurice, 2E, ... Sacramento, N. M.
Spann, Doris, 4H ..... Plainview
Sparkman, John Robert, 2G ..... Baird
Sparkman, Paul, 4B ..... Ralls
Sparks, Bill, 1E ..... Dumas
Sparks, Mary R., 1S ..... Lubbock
Sparks, Nancy Lee, 1H ..... Panhandle
Sparks, R. W., 3E ..... Lubbock
Spear, Sid, 3G ..... Childress
Spear, Velma, 2H ..... Childress
Spears, W. S., Jr., 1A ..... Ft. Worth
Speer, Anibel, 4H ..... Dickens
Speer, Frances Lee, 1G ..... Dickens
Speer, Melva Jo, 2B ..... Flomot
Spence, Chas. Orvel, 5A ..... Floydada
Spence, Jack, 5A ..... Lockney
Spencer, Catherine, 2H ..... Dumas
Spencer, Jean, 2H ..... Ralls
Spencer, Robert A., 2A ..... Lubbock
Spencer, Sara, 1H ..... Lubbock
Spikes, Billy, 4B ..... Lubbock
Spikes, Robert, 1E ..... Tahoka
Spitler, Frank, 3B ..... Lufkin
Spitler, Mary Jane, 1G ..... Lufkin
Spotts, Jeraline, 1H ..... Lynn, Ark.
Spring, Lee, 3B ..... Friona
Spring, Paul, 3S ..... Friona
Springer, Berl, 2E ..... Memphis
Springer, Mary, 4G ..... Ropesville
Springer, Richard, 3S ..... Ft. Worth
Sprouls, James C., 3G ..... Jayton
Spruill, Ruth Elna, 4G ..... Lamesa
Spykes, Alta Jane, 2G ..... Hermleigh
Squires, Joyce, 1B ..... Carlsbad, N. M.
Squires, Margie, 2Ed ..... Shallowater
Stafford, Pauline, 5G ..... Lubbock
Stalcup, Barbara, 1B ..... Lubbock
Stalcup, Emily, 2G ..... Big Spring
Stalcup, Evelyn, 1H ..... Lockney
Staley, Alice, 2G ..... Hobbs, N. M.
Staley, Annie Belle, 3Ed ..... Ringgold
Staley, L. M., Jr., 2A ..... Ringgold
Stallings, Edith, 1G ..... Tulia
Stalnaker, Earl, 5B ..... Lubbock
Stamps, Floyd, 1B ..... Sweetwater
Standefer, Prather, 1A ..... Clifton
Stanford, Betty Rue, 2G ..... Slaton
Stanford, Joy, 1B ..... Lubbock
Stanley, Wilma, 1H ..... Levelland
Stansell, Jack, 4A ..... Floydada
Stanton, Martha, 3Ed ..... Bogata
Stapleton, Doris, 3G ..... Midland
Stark, Galen Page, 2B ..... Lubbock
Stark, Wallace, 2A ..... Haskell
Starkey, Johnie, 2A ..... Muleshoe
Starkey, Robert, 1E ..... Muleshoe
Starnes, Sarah, 1H ..... Lubbock
Statham, Louise, 4E ..... Cisco
St. Clair, Frances, 3G ..... Seymour
St. Clair, John, 1B ..... Seymour
Steadman, Kirby, 1B ..... Trent
Steed, Chas., 1E ..... Clovis, N. M.
Steed, T. M., Jr., 2S ..... Lubbock
Steele, Joe, 2B ..... Briscoe
Steen, Daniel, 2A ..... Becton
Stengel, Paul, 2S ..... Munday
Stennis, Hampton, 1G ..... Pampa
Stephens, Clarence, 3G ..... Ropesville
Stephens, Dorothy, 1B ..... Lubbock
Stephens, Tom, Jr., 1S ..... Lubbock
Stephens, Truman, 1G ..... Lubbock
Stephenson, Anita, 1G ..... Ropesville
Stephenson, Charles, 2A ..... Lubbock
Stephenson, Richard, 2E ..... Lubbock
Sterrett, Elizabeth, 4H ..... Abernathy
Stevens, Doris, 1G ..... Houston
Stevens, Dow, 1B ..... Phillips
Stevens, Gwendolyn, 1B ..... Lubbock
Stevens, James, 3G ..... Jacksboro
Stevenson, L. M., 2B ..... Ft. Worth
Stewart, Chas. A., 1E ..... Aspermont
Stewart, Eugene, 1B ..... McLean
Stewart, Lee Roy, 1G ..... Sunray
Stewart, J. D., 3E ..... Brashear
Stewart, Mary, 4Ed ..... Lubbock
Stewart, Melvina, 2B ..... Hereford
Stewart, Neil, 4E ..... Dallas
Stewart, Rachel, 1H ..... Lubbock
Stewart, Reveau, 1G ..... Lewisville
Stewart, Roy, 1A ..... Olney
Stewart, Wilbur, 3E .... Las Vegas, N. M.
Stiles, Aubrey A., 4E ..... Lubbock
Stiles, Jimmie, 1Ed ..... Clarksville
Stiles, Mrs. Marguerite, 5G ..... Lubbock
Still, Augusta, 4H ..... Ropesville
Stipes, Clarence, 1A ..... Levelland
Stipp, George, 1E ..... Lubbock
Stobaugh, Mary Lou, 1H ..... Lubbock
Stockton, Durward B., 1G ..... Lubbock
Stokes, Charles, 2E ..... Bonham
Stokes, Garland, 1A ..... Lubbock
Stone, Florence, 2H ..... Muleshoe
Stone, Janeeva, 3H ..... Wolfforth
Stone, Joyce, 3G ..... Sudan
Stoneham, Doris, 1S ..... Lubbock
Storey, David C., 1S ..... Littlefield
Storrs, C. L., 3B ..... Lubbock
Story, Ernestine, 3H ..... Tahoka
Story, T. J., Jr., 2B ..... Vernon
Stotts, Carlon, 1B ..... Slaton
Stout, Fred A., 4E ..... Midland
Stout, LaVerle, 1E ..... Lubbock
Stovall, Bob, 1E ..... Dallas
Stovall, Dorothy D., 1H ..... Floydada
Stovall, Glenwood, 1A ..... Lamesa
Stovall, J. T., 1E ..... Floydada
Stovall, Viola, 3H ..... Lamesa
Strawn, Douglas, 2E ..... Lubbock
Strawn, Howard, 3A ..... Clarendon
Strawn, Hurshel, 1G ..... Lubbock
Street, Alice Lynn, 2G ..... Littlefield
Street, Donald, 3A ..... O'Donnell
Street, Marie, 1H ..... Henrietta
Street, Weldon, 2B ..... O'Donnell
Streetman, Victor, 2B ..... Grapeland
Strickland, Fred Earl, 1E ..... Lubbock
Strickland, Netha, 1S ..... Enochs
Strickland, Reid, 1B ..... Floydada
Strother, Ann Jack, 2H ..... Anna
Stuart, Isabel, 4H ..... Mingus
Stuart, Lee, 1S ..... Ft. Worth
Stuart, Robert, 3A ..... Ft. Worth
Stubblefield, Berna Dene, 1S ..... Woodson
Studhalter, Walter R., 2E ..... Lubbock
Sturdivant, Ford, 2B ..... Big Spring
Sturgeon, Erva, 2G ..... Lubbock
Sturgeon, Jack, 1A ..... El Paso
Sudduth, Dexy, 2G ..... Eden
Sublett, Jack, 3E ..... Merkel
Sugarek, Richard, 1A ..... Beeville
Suiter, Melba, 2G ..... Lubbock
Sullivan, Margaret L., 2H ..... Lubbock
Sullivan, Margie, 1G ..... Morton
Sullivan, Murt, 1A ..... Muleshoe
Summers, John O., 1G ..... Rusk
Sumner, O. W., 2A ..... Andrews
Sumrow, James, 1B ..... Teague
Surratt, Robert, 3S ..... Pampa
Sursa, Lloyd, 1B ..... Childress
Suttle, Glyn, 2G ..... Prairie Hill
Sutton, William, 4A ..... Lubbock
Svetlik, Frank, 3E ..... Bay City
Swaim, Billy, 2E ..... Sweetwater
Swann, Howard, 1G ..... Rotan
Swearingen, John E., 2E ..... Lubbock
Sweatman, Ann., 4G ..... Pampa

Sweatman, Tom W., 4E ..... Pampa
Sweatt, Wardell, 1S ..... Munday
Swetman, Robert H., 2A ..... Lorenzo
Symes, Clarence, Jr., 4E ..... Abilene
Tabor, Alvis, 3A ..... Morton
Tabor, Warren, 1S ..... Slaton
Tadlock, Frances E., 4B ..... Wilson
Taley, Norman, 3E ..... Lubbock
Tankersley, Beatrice, 1G ..... Lubbock
Tannahill, Clifton, 1E ..... Ft. Worth
Tanner, Julia, 4Ed ..... Childress
Tanner, Mabel George, 4H ..... Rule
Tarlton, Frances, 4G ..... Lubbock
Tarlton, Jean, 1E ..... Albany
Tarter, Lillian, 2B ..... Friona
Tate, Ernest, 4A ..... Snyder
Tate, George, 1B ..... Lubbock
Taylor, Ann, 1H ..... Eastland
Taylor, Betty Anne, 1Ed ..... Lubbock
Taylor, Douglas E., 2E ..... Loraine
Taylor, Dwayne, 1E ..... Lubbock
Taylor, Evelyn, 1G ..... Roaring Springs
Taylor, Frances, 1H ..... Ft. Worth
Taylor, Frank, 1S ..... Crockett
Taylor, Howard, 1B ..... Dermott
Taylor, Marian, 1B ..... Morton
Taylor, Melvin, 1E ..... Ft. Worth
Taylor, Nannie B., 5G ..... Weatherford
Taylor, Sherman, 3A ..... Lubbock
Taylor, Stewart, 2E ..... Dallas
Taylor, Velma, 4Ed ..... Ballinger
Taylor, W. M., 1A ..... Plains
Teague, Abner, 3E ..... Gainesville
Teague, Frankie Lou, 1B ..... Anton
Teague, John L., 4A ..... Howe
Teddle, Ted, 1B ..... Wickett
Teegarden, Audrey J., 1G .... Yamhill, Ore.
Telford, Lindsay, 5B ..... Lubbock
Temple, Kathryne, 2G ..... Lubbock
Temple, Mickye, 3G ..... Seymour
Temple, Winnie, 4H ..... Lubbock
Templeton, Johnnie Faye, 1H .... Shamrock
Terrell, Carlene Ashmore, 3G ..... Coleman
Terrell, Deveral, 2S ..... Rotan
Terrell, Glenn, 2E ..... Vernon
Terrell, Lewis, 1G ..... Lubbock
Terry, Floyd, 1E ..... Lubbock
Terry, H. M., 1G ..... Dallas
Terry, Stuart, 1E ..... Longworth
Teters, T. J., 2G ..... Snyder
Teuton, Bill, 1E ..... Lockney
Thacker, Elizabeth, 3Ed ..... Lubbock
Thames, Barney, Jr., 1S ..... Plainviwe
Tholen, William, 3B ..... Lubbock
Thomas, Carolyn, 4B ..... Post
Thomas, Garth B., 4G ..... Post
Thomas, George T., 4S ..... Lubbock
Thomas, Helen, 2S ..... Lubbock
Thomas, Hugh, 2B ..... Lubbock
Thomas, Jack, 1E ..... Pampa
Thomas, Reble, 1B ..... Post
Thomason, Roland, 1E ..... Abilene
Thompson, Asher J., 4B ..... Lubbock
Thompson, Clay, 5G ..... Lubbock
Thompson, D. A., 2E ..... Brownfield
Thompson, Elbridge, 1E ..... Wink
Thompson, Fay, 4H ..... Farwell
Thompson, Fred, 2E ..... Abernathy
Thompson, Harold, 2E ..... Denver, Colo.
Thompson, Harry J., 4E ..... Wichita Falls
Thompson, James, 3A ..... Bovina
Thompson, Janice, 4Ed ..... Plainview
Thompson, LaVere, 1E ..... Iowa Park
Thompson, Lewis, 2E ..... Vernon
Thompson, Dayle, 1E ..... Memphis
Thompson, Ray, 2E ..... Big Spring
Thompson, Robert, 3B ..... Hubbard
Thompson, Vernon, 5B ..... Lubbock
Thompson, Walter, 4A ..... Farwell
Thompson, Wm. Carey, 2E .. Artesia, N. M.
Thormann, Vera, 1H ..... Loraine
Thornberry, Dan, 1G ..... Goodnight
Thornton, Dorothy, 4B ..... Farwell
Thornton, Louise, 3E ..... Littlefield
Tibbets, Cullen, 5G ..... Plainview
Tibbetts, Richard, 1B ..... Quitaque
Ticer, Tolbert, 2A ..... Mt. Pleasant
Tilger, Smith, 1A ..... Meadow
Tiller, Pauline, 1B ..... Muleshoe
Tillery, Clarence, 1Ed ..... Grapevine
Tillinghast, Ross, 1A ..... Lubbock
Tinkler, Mary Louise, 3G ..... Lamesa
Tinkler, Ruth, 1G ..... Lamesa
Tinney, T. J., 1A ..... Alvord
Tinney, Wilma, 2H ..... Twitty
Tippet, Doris Nell, 1H ..... Lubbock
Tipton, Dorothy Lee, 3Ed ..... Plainview
Tipton, George, 1E ..... Lubbock
Tipton, Margaret, 1H ..... Plainview
Titus, Elizabeth, 4G ..... Pecos
Todd, David, 1E ..... Slaton
Tomlinson, Howard, 1G ..... Port Arthur
Tomlinson, Mary Beth, 4G ..... Slaton
Tomlinson, Vada Belle, 3B .... Mineral Wells
Toombs, Fern, 2Ed ..... Meadow
Tosh, Gwendolyn, 4G ..... Lubbock
Townes, Lottie Jo, 3B ..... Tahoka
Townes, William, 1E ..... Amarillo
Townley, Wanza Lou, 2H ..... Paducah
Townsend, J. E., 1B ..... Rule
Travis, Pauline, 4G ..... Lubbock
Treadwell, Howard, 1A ..... Shallowater
Tressel, James, 2B ..... Cheyenne, Wyo.
Trice, W. H., Jr., 1E ..... Lubbock
Trimble, John Eden, 1E ..... Carbon
Triplett, Joe Will, 2G ..... Lubbock
Triplett, Myrick, 1S ..... George West
Trott, Jessie Lou, 1B ..... Eastland
True, Juanita, 1H ..... Lubbock
Tubbs, Richard, 2E ..... Floydada
Tucker, Dorris, 1B ..... Perryton
Tucker, Ferrelline, 4G ..... Lubbock
Tucker, Jeff, 1E ..... Childress
Tucker, Johnnie, 1A ..... Muleshoe
Tucker, Linton, 1A ..... Athens
Tucker, Peyton, 3A ..... Lubbock
Tucker, Ralph, 1S ..... Leonard
Tucker, Travis, 1A ..... Rockwood
Tucker, Winfred, 1A ..... Meadow
Tudor, Mary Neta, 3H ..... Lubbock
Tudor, Rebecca, 1H ..... Slaton
Tunnell, Ben F., 1B ..... Matador
Tunnell, Mary Margaret, 2G ..... Tahoka
Turnbough, Vanoy, 1A ..... Meadow
Turnbow, James W., 4E ..... Slaton
Turner, Agatha, 4E ..... Lubbock
Turner, Bill, 1B ..... Ranger
Turner, Bismarch, 3A ..... Lubbock
Turner, Ervin L., 3E ..... Floydada
Turner, Jack, 2B ..... Lubbock
Turner, John F., 3E ..... Santa Anna
Turner, J. R., 2S ..... Brownfield
Turner, K. Lanse, 3E ..... Brownfield
Turner, Leland, 1A ..... Lockney
Turner, Marion, 2H ..... Lubbock
Turner, Verda Frances, 1H .... Floydada
Turner, Woodrow, 1E ..... Plains
Turnipseed, Estelle, 1B ..... Meadow
Twiss, Freeman C., 4E ..... El Paso
Tye, Keith, 1S ..... Floydada
Tyler, Harry, 1G ..... Memphis
Tynes, Nina, 3H ..... Lubbock
Tynes, Rex, 4E ..... Lubbock
Ulit, Dorothy, 1H ..... Austin
Underwood, Roy Jim, 1G ..... Belton
Unfred, Durward, 2G ..... Tahoka
Upton, Othello, 1E ..... Lubbock
Usrey, Ed, 1A ..... Hedley
Vallance, Doris Jo, 1G ..... Memphis
Vance, Earlene, 1G ..... Panhandle
Vanderburg, Elizey D., 4A ..... Pampa
Vardeman, Bill, 1A ..... Slaton
Vardeman, Joanna, 1H .... Richland Springs
Vaughan, Audine, 2B ..... Hamlin
Vaughan, Milton, 2A ..... Lubbock
Vaughan, Amy E., 2Ed ..... Lubbock
Vaughn, Donald, 2S ..... Sherman
Vaughn, Margie Ree, 1Ed ..... Vernon
Veach, Marie, 1B ..... Wilson
Veach, Reva, 3H ..... Wilson
Verner, Jean, 1G ..... Spur
Verner, Jerrene, 2B ..... Rule
Verner, W. Harold, 1E ..... Carthage
Vernon, Gertrude, 1G ..... Lubbock
Vernon, Jack, 1A ..... Amarillo
Vernon, Mary Etta, 3H ..... Roscoe
Vestal, Mary Helen, 1G ..... Ft. Worth
Viaille, Cleston, 1E ..... Levelland

Vickers, James J., 3G ..... Lubbock
Viertel, Curtis, 1E ..... Aspermont
Vinson, Furman, 2B ..... Lubbock
Vinson, Teddy, 1A ..... Ackerly
Vinyard, Paul, 4S ..... Turkey
Vinyard, Wren, 1A ..... Turkey
Virden, Charles B., 1A ..... Lubbock
Vise, Bennie, 1G ..... Muleshoe
Wacker, John, 2E ..... Bartlett
Waddell, Vindex, 3E ..... Athens
Waddle, Jimmie, 3A ..... Greenville
Wade, Beverley, 1G ..... Ft. Worth
Wade, Ruth, 3G ..... Hagerman, N. M.
Wade, William Jno. 1A ..... Wellman
Wages, Orland, 3G ..... Canton
Waggoner, Noel, 2E ..... Claude
Wagner, Betty Jo, 1B ..... Mertzon
Wagner, Mildred, 5H ..... Amherst
Wagnon, Howard, 1B ..... Balmorhea
Wagnon, Myron, 2E ..... Sweetwater
Waidhofer, Joe, 5S ..... Arcadia
Wakeland, Mancel, 1A ..... Milford
Walden, Clifford, 1E ..... Enochs
Waldrep, Holt, 4Ed ..... Slaton
Waldrep, Sandy, 1Ed ..... Slaton
Waldrep, Wanda, 1B ..... Slaton
Walk, Wayne W., 1S ..... Post
Wales, Blanche, 2H ..... Littlefield
Walker, Dale, 2B ..... Lubbock
Walker, F. V., 1S ..... Sweetwater
Walker, Helen, 1H ..... Olton
Walker, Jack, 1B ..... Memphis
Walker, Joe O., 2E ..... Levelland
Walker, Joe S., 1E ..... Slaton
Walker, Joyce, 2E ..... Levelland
Walker, Mary Louise, 3Ed ..... Ft. Worth
Walker, Neill, 2G ..... Lubbock
Walker, R. Chas., 4A ..... Plainview
Wall, Elmer, Jr., 2S ..... Knox City
Wallace, Bilby, 1A ..... Clairmont
Wallace, Don, 4S ..... Colorado
Wallace, Fred, 2E ..... Waco
Waller, Bill, 1B ..... Tucumcari, N. M.
Waller, Gertrude, 1H ..... Morgan
Walling, J. C., 4A ..... Munday
Wallis, William, 3S ..... Clovis, N. M.
Waln, Mary Alice, 1H ..... Lubbock
Walraven, Louella, 3G ..... Dallas
Walter, Mary June, 1G ..... Lubbock
Walters, Ed, 3E ..... Eagle Pass
Walthall, Marye Ola, 2E ..... Anton
Walton, Charlie, 1G ..... Muleshoe
Walton, James K., 4S ..... Muleshoe
Waltz, Kathryn, 3G ..... Denison
Wand, Jack, 3E ..... Lubbock
Ward, Betty Jane, 1B ..... Lubbock
Ward, Elsie Mae, 1G ..... Raton, N. M.
Warden, Ellen June, 2B ..... Wichita Falls
Wardlaw, Mary Etta, 1H ..... Hale Center
Ware, Mary, 5Ed ..... Lubbock
Ware, Ronald, 4G ..... Seagraves
Warman, James V., 2A .... Portsmouth, Ohio
Warner, Elna, 2G ..... Vernon
Warner, Rhea, 1B ..... Vernon
Warren, Alice Burney, 4Ed .... Shallowater
Warren, Cecil, 1S ..... Lubbock
Warren, Don, 1S ..... Merkel
Warren, LaVerne, 3G ..... Lubbock
Warren, Leo J., 2Ed ..... Santo
Warren, Mrs. Lutie, 4H ..... Santo
Warren, Wanda M., 2Ed ..... Big Spring
Waters, Essie B., 4G ..... Abernathy
Waters, Granville, 2E ..... Crowell
Watkins, Allen, 1G ..... Meadow
Watkins, Burgin, 1E ..... Panhandle
Watkins, Joe, 1A ..... Paint Rock
Watkins, John H., 1A ..... Seagoville
Watkins, Marguerite, 2G ..... Seagraves
Watkins, Mary, 3G ..... Slaton
Watkins, Nell, 2G ..... Wellington
Watkins, O. R., 5G ..... Meadow
Watkins, Roberta, 2Ed ..... Kirkkland
Watson, Betty Jo, 4B ..... Ralls
Watson, Cora Jean, 1G ..... Lubbock
Watson, Elizabeth, 1G ..... Lubbock
Watson, H. A., Jr., 4B ..... Lubbock
Watson, Joanna, 1H ..... Mansfield
Watson, Maxine, 4G ..... Hale Center
Watson, Olin, 1B ..... Floydada
Watson, Opal, 2B ..... Silverton
Watson, Tom E., 1A ..... Claude
Watson, T. J., 2E ..... Lubbock
Watson, T. L., 1E ..... Lubbock
Watson, Winston, 1E ..... Lubbock
Watt, LaFolia, 1S ..... Pampa
Weakley, Jane, 3H ..... Roby
Weatherby, Lee, 2E ..... Pecos
Weatherly, Mary Neal, 1B ..... Littlefield
Weaver, Aubrey, 4G ..... Big Spring
Weaver, Ewing, 4A ..... Jonesboro
Weaver, J. E., 1G ..... Childress
Weaver, Margaret May, 1H ..... Spur
Webb, Allan, 3A ..... Hart
Webb, J. D., 2B ..... Abernathy
Webb, Gorman T., 4B ..... Abernathy
Webb, Ila Fae, 2H ..... Flomot
Webb, Kathleen, 3G ..... Lamesa
Webb, Nina Rose, 3H ..... Big Spring
Webb, Wade H., 1E ..... Itasca
Webb, Wilma, 1H ..... Pampa
Weber, Arthur, 2G ..... Sherman
Webster, George, Jr., 1B ..... Sherman
Webster, Imogene, 4G ..... Lubbock
Webster, J. D., 3B ..... Memphis
Webster, Walter, 1G ..... Lubbock
Weddle, Frances, 4H ..... Bonham
Wedel, Jimmy, 1B ..... Littlefield
Weeth, Lucy Katheryn, 1S ..... Vernon
Weil, Louise, 4H ..... Hale Center
Weiss, George, 1B ..... Lubbock
Welch, James, 1A ..... Crowell
Welch, Roy, 1G ..... Paris
Wells, Jack M., 3S ..... Lubbock
Wells, Jack S., 3S ..... Lubbock
Wells, Leta Fern, 4Ed ..... Wellington
Welmaker, Josephine, 4E ..... Lubbock
Werner, Crowell, 2E ..... Breckenridge
West, Angeline, 2G ..... Lubbock
West, Loren, 4A ..... Farwell
West, W. T., 1B ..... Rule
West, Zona, 1H ..... Lubbock
Westbrook, Verna Emma, 2H ..... Lubbock
Wester, J. K., 2G ..... Lubbock
Wetsel, W. B., Jr., 1B ..... Sweetwater
Whaley, Clara Jane, 2S ..... Odessa
Wharton, Ansel, 1E ..... Lubbock
Wharton, Doris, 4Ed ..... Lubbock
Wharton, Georgie Sue, 1B ..... Ft. Worth
Wharton, Jerriene, 4G ..... Lubbock
Wharton, Joe, 1E ..... Lubbock
Wharton, Patsy, 2G ..... Ft. Worth
Wharton, Vivian, 2G ..... Ft. Worth
Whatley, H. J., Jr., 1B ..... Jayton
Wheat, Joe Ben, 5G ..... Van Horn
Wheatley, Maxine, 3G ..... Pampa
Wheeler, Ila Marie, 1H ..... Nazareth
Wheeler, Joel B., 1G ..... DeKalb
Wheeler, John Bill, 1A ..... Eola
Wheeler, Marcia, 3H ..... Lorenzo
Wheelis, Jack, 3A ..... Mart
Wheelock, Joyce, 2H ..... Lubbock
Whipple, Donald, 1B ..... Waxahachie
White, Dixie, 2G ..... Lubbock
White, Dorothy Zoe, 1H ..... Loraine
White, Edward, 4A ..... Springlake
White, Estelle, 1B ..... Lamesa
White, Gene, 1G ..... White Deer
White, Isaac, 2A ..... Lubbock
White, J. B., 2B ..... Vernon
White, Jessie Burk, 2E ..... Lubbock
White, Leo, 4A ..... Springlake
White, Margaret, 1B ..... Hamilton
White, Mary, 3G ..... Tahoka
White, Ray, 1E ..... Whiteface
White, Richard, 2B ..... Vernon
White, Willard, 2E ..... Lubbock
Whited, George Wayne, 1E ..... Southland
Whiteley, L. D., 3G ..... Wheeler
Whiteside, Dan, 3G ..... Littlefield
Whitfill, Billy Ed, 2S ..... Lockney
Whiting, Howard, 3E ..... Becton
Whitman, Bessie, 2H ..... Thalia
Whitmire, Beatrice, 2H ..... Lamesa
Whitt, Eugene, 3G ..... Terrell
Whittington, Hillman, 1E ..... Roscoe
Whitworth, Dick, 1B ..... Waco

Wicker, Mildred, 1H ..... Slaton
Wicks, Clark, 4B ..... Clovis, N. M.
Wigton, Henry, 1E ..... Pueblo, Colo.
Wilbanks, Floy Farrar, 5G ..... Lubbock
Wilbanks, Julia, 2G ..... Spearman
Wilborn, Truett, 1A ..... Alvord
Wilder, Bernard, 1E ..... Hereford
Wilder, Robert, 3E ..... Wellington
Wiley, Nell Marie, 4G ..... Lubbock
Wiley, Norman, 1S ..... Lubbock
Wilhelm, Amy Gladys, 2Ed ..... Lubbock
Wilhite, James, 2E ..... Slaton
Wilkes, Roy, 3A ..... Floydada
Wilkins, Edward, 1B ..... Sweetwater
Wilkins, Glen, 2A ..... Lubbock
Wilkins, Wiley, 1A ..... Roscoe
Wilkinson, Camelia, 3G ..... Whiteflat
Wilkinson, Leon, 1S ..... Ft. Worth
Wilkowske, Howard, 4A ..... Denison
Willard, Aubrey L., 3E ..... Wellington
Willett, Dorothy Harris, 4B ..... Matador
Willett, John R., 1E ..... Lamesa
Willett, Virginia, 1G ..... Whiteface
Willhoit, Lucile, 2H .... Humble City, N. M.
Wilhoit, Pete, 1G ..... Spur
Williams, Ben, 1B ..... Ft. Worth
Williams, Billy Dunk, 1A ..... Haskell
Williams, Bryan, 4G ..... Post
Williams, Mrs. Bryan J., 4B ..... Slaton
Williams, Charles W., 3E ..... Mexia
Williams, Coleman, 4E ..... Cisco
Williams, Edwin, 4A ..... Dallas
Williams, Flora Lee, 1G ..... Farwell
Williams, Floyd B., 1A ..... Troup
Williams, Floyd, Jr., 2E ..... Lubbock
Williams, Floyd L., 4E ..... Lubbock
Williams, F. V., 1B ..... Lubbock
Williams, Hansford, 1B ..... Sweetwater
Williams, Imogene Buster, 4H .... Lubbock
Williams, Jack, 1G ..... Dalhart
Williams, Jack Weldon, 1E ..... Lubbock
Williams, James D., 1S ..... Borger
Williams, James W., 1G ..... Marlin
Williams, Jean, 1S ..... Lubbock
Williams, Joe, 1E ..... Ozona
Williams, John, 3B ..... White Deer
Williams, Johnny, 1S ..... Borger
Williams, J. Stanley, 4E ..... Amarillo
Williams, Juanita, 2B ..... Slaton
Williams, Ladena, 1G ..... Clovis, N. M.
Williams, Leon, 1E ..... Cleburne
Williams, Mary Louise, 1H ..... Ralls
Williams, Max, 1E ..... Ralls
Williams, Murray, 1G ..... Levelland
Williams, Nan Isca, 3H ..... Lubbock
Williams, Percy, 4B ..... Lubbock
Williams, Raymond L., 1A .... Big Spring
Williams, Rex, 4B ..... Bells
Williams, R. L., 3E ..... Carbon
Williams, Wanda J., 3G ..... Munday
Williams, Wayne, 1A ..... Sadler
Williamson, J. T., 1G ..... Colorado City
Williamson, Ocie Hugh, 2E ....Lubbock
Williamson, Ralph, 1S ..... Wolfforth
Williamson, Winnie, 1S ..... Wolfforth
Williford, Harriet, 2H ..... Fairfield
Willingham, Afton, 3B ..... Paducah
Willingham, Roberta, 5S ..... Lubbock
Willis, Mrs. Era Miller, 2G ..... Lubbock
Willis, Lucille, 2B ..... Olton
Willis, Roysten, 5G ..... Muleshoe
Willman, Jean, 4G ..... Muleshoe
Wills, Helen Estelle, 3H ..... Abilene
Wills, H. J., 4A ..... Eola
Wills, Hood G., 5A ..... Miami
Wilson, Albert, 1B ..... Dalhart
Wilson, Amos, 1G ..... Shamrock
Wilson, Ben, 2G ..... Memphis
Wilson, Cephus, 4E ..... Ft. Davis
Wilson, Elaine, 4B ..... Tulia
Wilson, George, 4A ..... Princeton
Wilson, Hazel Ann., 3H ..... Lubbock
Wilson, Ina Frances, 4G ....Lubbock
Wilson, James, 1G ..... Bovina
Wilson, Jane, 4G ..... Lubbock
Wilson, J. D., 5Ed ..... Paducah
Wilson, Jimmie L., 2G ..... Lubbock
Wilson, John W., 4G ..... Wink
Wilson, Mrs. Laurette Ayers, 4H .... Lubbock
Wilson, Lynn, 1G ..... Lubbock
Wilson, Marion, 2E ..... Granite City, Ill.
Wilson, Mary, 5G ..... Lubbock
Wilson, Robert, 1A ..... Bovina
Wiman, Ruth, 4H ..... Roscoe
Windham, J. Robert, 1S ..... Odessa
Winford, Peggy, 2G ..... Dallas
Wingo, Maurice, 3S ..... Plainview
Winston, Dorothy, 1B ..... Snyder
Winter, Elmer, 2E ..... Amherst
Winter, Ernest, 1S ..... Los Angeles, Calif.
Winter, James, 1E ..... Sterrett
Wise, Harold, 1E ..... Toyah
Wiseman, Helen, 1H ..... Littlefield
Witten, Claude, 3A ..... Plainview
Wolfram, Bert, 2E ..... Galveston
Wolfskill, Mrs. Eula Tince, 3H .... Lubbock
Woltmon, Jack, 1A ..... Muleshoe
Womack, J. C., 1A ..... Tahoka
Womble, L. M., 1B ..... Spearman
Wood, Annabel, 2G ..... Littlefield
Wood, Barbara Jean, 1H ..... Brownfield
Wood, Bill, 1G ..... Lubbock
Wood, Billy, 1E ..... Post
Wood, D. B., Jr., 3E ..... Olney
Wood, Dortha, 1Ed ..... Idalou
Wood, Eleanor Marie, 1H ..... Snyder
Wood, Emmett, 1B ..... Shallowater
Wood, Jean, 1S ..... Lubbock
Wood, J. Jeff, 1E ..... Pecos
Wood, Joe, 2S ..... Galveston
Wood, Nancy Vyola, 3G .. Ft. Sumner, N. M.
Wood, Thelma, 1H ..... Lubbock
Woodall, Milton, 3E ..... Duncanville
Woodfin, Howel, 1E ..... Mexia
Woodfin, Virgil, 2A ..... Mexia
Woodley, Robert Floyd, 3E ..... Marshall
Woods, Delmar M., 1E ..... Olney
Woods, Jack, 1E ..... Roaring Springs
Woods, James, 1B ..... Lubbock
Woods, Kenneth, 4E ..... Holland
Woods, Mary Beth, 2G ..... Morton
Woods, Roy, 1B ..... Lubbock
Woods, Truman, 1A ..... Lorenzo
Woods, Winifred, 1G ..... Lubbock
Woodside, Gilbert, 3E .. Three Rivers, N. M.
Woodward, Albert, 4E ..... Borger
Woodward, Ann, 1G ..... Lamesa
Woodward, Mary Lela, 3B ..... Santa Anna
Woody, Harry, 1G ..... Anton
Word, Walter, 1B ..... Amarillo
Worley, Evelyn, 4H ..... Snyder
Worley, Freddie Marie, 3G ..... Canadian
Worsham, Sarah, 3E ..... Sulphur Springs
Wossum, Luther Earl, 3E ..... Levelland
Wossum, Mary, 2H ..... Meadow
Wozencraft, W. T., 1A ..... Olton
Wray, Virginia, 1G ..... Pecos
Wren, Wilma June, 2Ed ..... Littlefield
Wright, Allen, 1A ..... Hale Center
Wright, Ann, 3H ..... Lubbock
Wright, Chester Welty, 5G ..... Shallowater
Wright, Cope, 1E ..... Lubbock
Wright, James Ray, 1E ..... Lamesa
Wright, Dorothy Jane, 1G .... Cement, Okla
Wright, Janet, 1B ..... Liberal, Kansas
Wright, Jess, Jr., 3S ..... Anton
Wright, John Amos, 4A ..... Breckenridge
Wright, John F., 3B ..... Cleburne
Wright, John Kendrick, 2E ..... Vernon
Wright, Kenneth, 2A ..... Post
Wright, Lucille, 4H ..... Tahoka
Wright, Nina, 2H ..... Shallowater
Wright, Quentin, 4B ..... Paris
Wright, Rena, 3G ..... Lubbock
Wright, Robert Lyons, 4E ..... Lubbock
Wright, Stanley, 1S ..... San Antonio
Wright, W. H., 2E ..... Graham
Wyly, Robert, 1E ..... Summerfield
Yarbrough, Evelyn, 1B ..... Littlefield
Yarbrough, Sara Marie, 3H ..... Temple
Yates, Hattie, 4Ed ..... Lamesa
Yeager, Mary Burk, 2H ..... Lubbock
Yeakley, Vernon J., 4E ..... Gainesville
Yelton, Fred, 4E ..... Alamogordo
Yelton, Jack, 1G ..... Lubbock
Yoakum, Joe, 1E ..... Sweetwater
York, Homer, 2G ..... Snyder

York, J. T., 2E ..... Dallas
York, Mae Dell, 1G ..... Lubbock
Young, Elizabeth, 2G ..... Westbrook
Young, James T., 4E ..... Arlington
Young, Jayson, 3E ..... Lubbock
Young, Joe, 1G ..... Girard
Young, Mrs. Mignon Hughes, 5G .... Lubbock
Young, Ozora, 4G ..... Levelland
Young, Stanley, 1S ..... Lubbock
Young, Wm. Lee, 5A ..... Dumas
Youngblood, Geraldine, 3G ..... Blackwell
Zachary, Rogstad, 2B ..... Lubbock
Zachary, Mrs. Wilma, 5G ..... Lubbock
Zeleny, Norma Jane, 2B ..... Plainview
Zellner, Julian, 1S ..... Lubbock
Zorns, Jim, 1A ..... Meadow

SUMMER SESSION, 1939

ABBREVIATIONS

A—Agriculture
B—Business Administration
E—Engineering
Ed—Education
G—General
HE—Home Economics
S—Science
5—Graduate

Aaron, Abner, E .....Rotan
Abbott, Ralph E., 5S.....Lubbock
Acker, Mrs. J. G., Ed.....Truscott
Adams, Glendora, G .....Lakeview
Adamson, Daurene, B .....Post
Adcock, Ruby, 5S .....Gustine
Adkins, Douglas, G .....Thalia
Ady, Allie, 5Ed .....Weatherford
Agee, Parri Dee, HE .....Stamford
Agnew, Ewell, Ed .....Ralls
Agnew, Mrs. Ewell S., G.....Ralls
Aikman, Ela M., Ed .....Hereford
Akarman, Edith, HE .....Lubbock
Aken, Harold, A .....Rotan
Alexander, Carlos, B .....Lamesa
Alexander, Florence, B ..Albuquerque, N. M.
Alexander, Jack W., S .....Lamesa
Alexander, Lewis, B .....Albuquerque, N. M.
Alford, Ruth, Ed .....Enochs
Allbright, Wilburn, G .....Loraine
Allen, Dorothy, B .....Lubbock
Allen, E. D., A .....Blum
Allen, Elwanda, G .....Snyder
Allen, Loreta, HE .....Dublin
Allen, Muriel, B .....Bellview, N. M.
Allen, Prentiss, A .....Lubbock
Allensworth, John C., S .....Lubbock
Allison, Glenn, 5Ed .....Hereford
Allred, Lila, 5HE .....Chillicothe
Altman, Robert, E .....Lubbock
Alverson, Allene, 5G .....Whitewright
Ammons, Dorothy Lee, Ed .....Roby
Ammons, Johnnie, G .....Roby
Ammons, Peyton Alvis, 5G .....Lubbock
Anderson, Glynn, E.....Plainview
Anderson, Jack,, E .....Shallowater
Anderson, Mattie Lora, Ed .....Hermleigh
Anderson, Nancy, Ed .....Longview
Anderson, Ralph W., 5G .....Wichita Falls
Angel, J. C., E .....Loraine
Armes, Irene, 5G .....Slaton
Armstrong, Ruth, Ed .....Howland
Assiter, L. V., E .....Floydada
Atcheson, Ben, E .....Lubbock
Atcheson, Lucille Heggen, G .....Lubbock
Atkinson, George N. Jr., 5S .....Shamrock
Atwell, Kathryn, Ed .....Ballinger
Austin, Julia, E .....Lubbock
Axline, Keith, G .....Lubbock
Ayers, Manuel W., 5A .....Afton
Bailey, Carl M., 5Ed .....Estelline
Bailey, Eleanor, G .....Lubbock
Bailey, Kathryn, HE .....Lubbock
Bailey, Pauline, G .....Altus, Okla.
Bailey, Walker G., Ed .....Big Spring
Bain, Ethel M., 5Ed .....Lubbock
Bain, George P., S .....Plainview
Bain, Vada, 5G .....Lubbock
Bain, Viola, HE .....Bula
Baker, A. Garnell, E .....Cleburne
Baker, E. F., 5Ed .....Plainview
Baker, Marjorie Frizzell, 5Ed ....Knox City
Baker, Mary Alice, G .....Lubbock
Baker, Neville, B .....Borger
Baker, Wincer, B .....Pampa
Ball, Frank, E .....Lubbock
Ball, Glenn, G .....Wagon Mound, N. M.
Ballentine, Christine, 5S .....Granbury
Ballew, Hardy, E .....Lubbock
Ballow, Charlotte, HE .....Levelland
Bando, Frank, B .....Jacksonville
Bandy, Marion Orlena, 5G .....Joshua
Banes, Wava A., G .....Wink
Bankhead, C. L., A .....Lamesa
Bardwell, Irene, Ed .....Goree
Barks, Frances, 5Ed .....Tulia
Barnett, Alberta, S .....Lubbock
Barnett, Edith, B .....Higgins
Barnett, Mary Clare, Ed .....Lubbock
Barrier, Larue, HE .....Brownfield
Barrier, Olivia, HE .....Brownfield
Barrier, Pauline, G .....Lubbock
Barry, James C., E .....Slaton
Bartel, Albert, E .....Dallas
Bartlett, Mrs. B. F., 5HE .....Plains
Bartlett, Ila, HE .....Lamesa
Bartlett, Vivian, G .....Post
Bartley, Mrs. Ruby, G .....Dilley
Barton, Frances, HE .....Littlefield
Baskin, Billy, B .....Lubbock
Bateman, Mrs. J. C., 5HE .....Tulia
Bates, Martha, HE .....Friona
Bates, Mary Glen, HE .....Roby
Bates, Robert L., B .....Bovina
Batton, Mrs. Gertrude, 5Ed .....Spearman
Batton, L. H., A .....Comanche
Batton, Nola Marie, G .....Comanche
Bauers, Mary, 5B .....Lubbock
Bavousett, Oma, HE .....Snyder
Beal, Charles, Ed .....Lubbock
Beard, Bruce, S .....Lubbock
Beard, Brunette, G .....Lubbock
Beard, Katheryn, G .....Wharton
Beard, Stella, 5HE .....Lubbock
Bearden, Naomi, G .....Brownfield
Bearden, Mrs. Ruth, 5G .....Earth
Beasley, Marihelen, S .....Lubbock
Beck, Mrs. Imogene, Ed .....Lubbock
Becton, Hazel, Ed .....Becton
Bell, B. C.,G.....Big Spring
Bell, Frankie Maida, Ed .....Prairie Hill
Bell, Howard F., E .....Rankin
Bell, Mrs. Una Mabel, Ed .....Crosbyton
Benger, Ira, A .....Friona
Benham, Marion, A .....Crowell
Bennett, J. Weldon, S .....Stamford
Bennett, Nola Mae, Ed .....Hobbs, N. M.
Bennett, Talbert, B .....Lubbock
Bennett, Vernon, E .....Portales, N. M.
Benson, Bennett C., HE .....Seminole
Benson, Charles, G .....Hale Center
Bentley, Homer D. 5Ed .....Lubbock
Bergan, Allard, E .....Portales, N. M.
Berry, Oma, B .....Seymour
Bertrand, J. R., A .....White Deer
Betts, Flora May, S .....Waxahachie
Biggers, W. D., 5Ed .....Sudan
Billings, Noami L., G .....Ft. Stockton
Bingham, Francis, B .....Spur
Birdsong, Junior L., E .....Pittsburg
Birdwell, Christine, G .....Ralls
Birdwell, Ouida, HE .....Snyder
Bishop, Carrie Lee, HE .....Sudan
Black, Charlie, A .....Barstow
Black, Joyce, HE .....Lubbock
Black, Kathryn, E .....Lubbock
Black, Keith, A .....Lubbock
Black, Ruth, 5G .....Lubbock
Black, Winfred, S .....Comanche
Blackstock, Lyman, 5G .....Brownfield

Blackwelder, Carl B., 5G ....Concord, N. C.
Blair, Sibil, HE .....Lubbock
Blanchard, Oby, A .....Amherst
Blatherwick, Janette, G .....Coleman
Bledsoe, Belva, G .....Westbrook
Bledsoe, Mrs. W. H., G .....Lubbock
Bledsoe, Willis, G .....Lubbock
Bley, Olga, Ed .....Olton
Blount, C. E., 5Ed .....Lockney
Boaz, Roy C., G .....Stinnett
Bobbitt, William N., 5Ed .....Sudan
Boitnott, Boyd, S .....Beaumont
Booker, Fayrene, HE .....Lubbock
Boone, Harriet, S .....Seymour
Boone, Jack Warren, S .....Lubbock
Boone, Margaret, B .....Seymour
Bostick, Elizabeth, G .....Slaton
Boswell, George Jr., Ed .....Coahoma
Boswell, J. Warden, B .....Sweetwater
Bottlinger, Marvin, E .....Ireland
Boucher, Mayo, G .....McAdoo
Bounds, Bland, E .....Baird
Bowen, Pickens, G .....Dallas
Bowers, Frances R., Ed .....Miami
Bowers, Marcillee, HE .....Lehman
Bowman, Mrs. Stella, Ed .....Lorenzo
Boyd, Arbie, 5Ed .....Ralls
Boyd, Durward, G .....Cisco
Boyd, Mrs. Mabel V., Ed .....Ralls
Boynton, Burline, E .....Lubbock
Bradford, William Robert, 5Ed ....Iowa Park
Bradley, Ned, B .....Lubbock
Bradley, Nellie Faye, Ed .....Fife
Bramlett, Ernest Carl, A .....Stephenville
Bramlett, Mrs. E. C., Ed .....Stephenville
Branscum, Arvel, 5Ed.....Muleshoe
Brasher, Nugent, S .....Iraan
Brassell, Billy, E .....Mineral Wells
Braswell, Irene, 5Ed .....Mingus
Braswell, Roy B., 5Ed .....Mingus
Bratcher, John Bundy, B .....Lubbock
Bray, Charles, E .....Lubbock
Brenneman, Malcolm, S .....Midland
Brewer, Zane G., A .....Olton
Bridges, Clara, Ed .....Levelland
Bright, W. C., G .....San Antonio
Brister, Mrs. Nola, Ed .....Aspermont
Brittian, Juanita, Ed .....Plainview
Britton, Vivan H., B .....Delwin
Brock, Omie, Ed .....Lubbock
Brooks, Eustace, 5G .....Archer City
Brooks, Manuel, A .....Lubbock
Brotherson, Doris, HE .....Pedro Miguel, ...Canal Zone
Brotherson, Graham, E .....Pedro Miguel, ...Canal Zone
Brown, Mrs. Bailey, Ed .....Lorenzo
Brown, Bobbie, G .....Ropesville
Brown, Parker, E .....Eastland
Brown, Sena Marie, G .....Lorenzo
Brown, Sidney W., B .....Lubbock
Browning, Bruce, G .....Quitaque
Browning, Mrs. Bruce, Ed .....Quitaque
Browning, Leslie, 5A .....Tahoka
Brummet, Ita, HE .....Lubbock
Bryan, Edna B., Ed .....Memphis
Bryan, Joe Dan, B .....Lubbock
Bryan, Luzelle, G .....Littlefield
Bryan, Maggie F., Ed .....Memphis
Bryan, Monte De Ray, Ed .....Borger
Bryan, Mrs. Ruth, HE .....Spearman
Bryan, Sam, A .....Ralls
Bryant, Fred, G .....Sudan
Bryant, Jesse, A .....Brownfield
Bryant, Martel, 5Ed .....Faywood, N. M.
Buchanan, Beatrice, HE .....Friona
Buchanan, Modena, S .....Graham
Buckner, Mrs. Kyle M., G .....Brownfield
Buckner, Oran, 5G .....Brownfield
Buckner, Ross A., 5Ed .....Cotton Center
Buffington, Clint, E .....Midland
Bull, Mattie, 5G .....Amarillo
Bullock, Alvarene, G .....Becton
Bulls, Harley, G .....Friona
Bumpass, Mrs. Rommie Boyd, 5G ....Lubbock
Bundrant, Vernon, G .....Meadow
Burden, Mrs. Rosine K., 5G .....Seminole
Burford, Ganie Nix, 5HE .....Lubbock
Burgamy, Mrs. Nona, G .....Lubbock
Burks, Vera, 5G .....Phillips
Burks, W. A., E .....Ft. Worth
Burleson,, Helen, G .....Albany
Burleson, Mrs. J. M., 5G .....Meadow
Burney, Willis, G .....Santa Anna
Burns, Ruby, S .....Morton
Burson, Joe Kline, G .....Silverton
Burson, Marie, Ed .....Presidio
Burwell, Richard, B .....Amarillo
Butler, Milton H., E ....Oklahoma City, Okla.
Byrd, Markrel, E .....Jacksonville
Byrne, Irene, B .....Littlefield
Cain, Harriet, Ed .....Hobbs, N. M.
Callan, Ruth, G .....Fort Worth
Callán, William J., S .....Lubbock
Camp, M. T., 5G .....Floydada
Campbell, Luther, S .....Taft
Campbell, Margaret Junè, HE .....Sudan
Campbell, Paul C., 5Ed .....Mercedes
Cannon, Myrlene, 5HE .....Idalou
Cantrell, Mrs. Maurice C., 5Ed .....Prosper
Capps, Ben, A .....Anarene
Carlock, Watson, E .....Lubbock
Carmichael, Ruth, 5Ed .....Kenna, N. M.
Carnes, Lois, 5G .....Brownwood
Carpenter, T. R., A .....Clovis, N. M.
Carr, Marvin Warlick, G .....Lubbock
Carroll, Davy, 5G .....Coleman
Carroll, Ed, A .....Plainview
Carson, David, A .....Bovina
Carter, Christelle, HE .....Weatherford
Carter, Geneva, HE .....Lubbock
Carter, Lee B., A .....Darrouzett
Carter, Mary Margaret, HE .....Lubbock
Carter, Thelma, Ed .....Darrouzett
Carter, Mrs. Velma, Ed .....Tahoka
Carter, Virgel, A .....Tahoka
Carver, Dorothy, G .....Bonham
Case, Frankie (B) .....Petersburg
Case, Robert, 5B .....Lubbock
Cass, D. L., E .....Post
Castle, Lila, Ed .....Knott
Castle, Robert, S .....Lubbock
Cathey, Morene H., 5G .....O'Donnell
Cates, Lois S., Ed .....Lamesa
Caton, Dossie Mae, B .....Lubbock
Caviness, Jamie, A .....Hurlwood
Cearley, Alvin G., E .....Levelland
Cearley, J. B., G .....Levelland
Chalk, John Rutledge, S .....Lubbock
Chamberlain, James C., 5Ed .... Goose Creek
Chamberlain, Jewel Brown, 5HE Goose Creek
Chambers, John, G .....Wichita Falls
Chaney, Ranell, G .....Littlefield
Chant, Novie, G .....Camp Wood
Chapman, David, E .....Winters
Chapman, Wilson A., E .....Quitaque
Chappell, Byron, 5G .....Lubbock
Chappell, Mrs. Rosalie, Ed .....Lubbock
Chatham, Ruth, 5G .....Plainview
Chastain, Mrs. Bruce, Ed .....Ballinger
Childress, Martha Jay, 5B .....Rising Star
Chism, I. M., 5Ed .....Albany
Christensen, Allen, E .....Lubbock
Christian, Mrs. B. C., Ed .....Seagraves
Christian, Joe, A .....Seagraves
Christian, Mattie Lou, E .....Seagraves
Christian, Weldon, E .....Big Spring
Christman, Edna, HE .....Arlington
Clark, Clayton H., B .....Frisco
Clark, Clifton W., Ed .... Anthony, N. Mex.
Clark, Franklin F., E .....Greenville
Clark, Margaret, 5G .....San Angelo
Clearman, Wardine, Ed .....Lamesa
Clements, Mary, HE .....Lubbock
Cleveland, Neweta, 5HE .....Lubbock
Clifton, Leldon, 5G .....Merkel
Clifton, Thomas, G .....Haskell
Cloyd, Richard, B .....Truscott
Coats, Charlie, A .....Lubbock
Coats, Tommie, S .....Seagraves
Cobb, Mozelle, Ed .....Lubbock
Cochran, Carl M., G .....Marlin
Coe, Pauline, 5G .....Lubbock
Coffer, Claude M., 5Ed .....Amherst
Coffer, Hattie, Ed .....Amherst
Cogburn, Bernice Gilmore, Ed ..Throckmorton
Cogburn, Blanton, B .....Lubbock
Cogburn, Bonnie Faye, HE .....Lubbock
Cogburn, Harold, S .....Lubbock
Coker, Douglas, A .....Athens

Coker, W. K., E ..... Athens
Cole, Jeanette, G ..... Pampa
Coleman, Ann, B ..... Lamesa
Coleman, Myrtle, Ed ..... Lubbock
Collett, Gussie Marie, Ed ..... Lubbock
Collie, Ruth, 5G ..... Hobbs, N. Mex.
Collier, Richard, 5G ..... Abilene
Collings, Gladys Douthit, B ..... Lubbock
Collings, J. F., B ..... Wilson
Collins, Mrs. Erma Joy, 5Ed ..... Lubbock
Collinsworth, Evelyn, 5Ed ..... Rotan
Collinsworth, Gerald W., 5G ..... Rotan
Collinsworth, J. D., B ..... Borger
Coltharp, Faye, Ed ..... Slaton
Colvin, Joyce C., HE ..... El Paso
Comer, Alene, Ed ..... Aspermont
Comer, Leo, A ..... Lockney
Compton, Jimmie Fay, B ..... Lubbock
Conley, Frances, Ed ..... Lubbock
Conley, Ray, E ..... Borger
Conner, Geraldine, HE ..... Haskell
Conradt, Charles, A ..... Lometa
Conradt, J. C., 5G ..... Rotan
Cook, Adrian, A ..... Post
Cook, Fannie, Ed ..... Canadian
Cook, J. Olene, HE ..... Post
Cook, Kathryn, HE ..... Post
Cook, Lawrence H., G ..... Lubbock
Cooke, Verlin, Ed ..... San Angelo
Cooksey, Dudley, E ..... Pecos
Cooper, Albert H., Ed ..... Levelland
Cooper, Hal, S ..... Thornton
Cooper, Joyce, B ..... Rochester
Cooper, Ruby, G ..... Stinnett
Copeland, Elizabeth, Ed ..... Ropesville
Copeland, Floyd H., 5B ..... Hale Center
Copeland, Gladys Harvel, Ed .... Hale Center
Copeland, William A., G .... Wewoka, Okla.
Corbin, Kilmer, G ..... Lamesa
Corbin, La Merle Scott, Ed ..... Lamesa
Corder, Fount, G ..... Uvalde
Corley, Juanita, HE ..... Wolfforth
Costolow, Maurice, S ..... Spur
Couch, Alfred, B ..... Aspermont
Couchman, Sue Belle, HE ..... Brownfield
Counts, J. R., A ..... Rotan
Cowan, Carlton, A ..... Emory
Cowan, Cleo, Ed ..... Lorenzo
Cowart, Bailey, S ..... Amarillo
Cox, Elnora, HE ..... Ralls
Cox, Mrs. Era Spires, Ed ..... Plainview
Cox, Gilford, A ..... Slaton
Cox, John H., 5G ..... Lubbock
Cox, Leon G., E ..... Childress
Cox, Marjorie, Ed ..... San Angelo
Cox, Robert Lee, G ..... Garden City
Coyne, Lawrence W., A ..... Lubbock
Crabtree, Mrs. Fred, Ed ..... Stephenville
Craig, Ruth, G ..... Lubbock
Crane, R. C., G ..... Lamesa
Craven, Joyce, E ..... Lubbock
Craven, Mrs. Lennis C., Ed ..... Lubbock
Craven, Vernon, S ..... Matador
Craver, A. G., Jr., A ..... Sweetwater
Craver, Mrs. Foye Sliger, 5Ed ..... Hylton
Cravy, Mrs. Alva, Ed ..... Spur
Cravy, C. M., A ..... Spur
Crawford, Mary Len, HE ..... Childress
Cromer, Mrs. Beatrice, Ed ..... Tahoka
Cromer, Harold, S ..... Lubbock
Crosby, Lois, HE ..... Wilson
Crounse, T. V., 5G ..... Graford
Crow, Eula Saye, Ed ..... Lakeview
Crow, Gerry, HE ..... Albany
Crow, Mary, S ..... New Brunswick, N. J.
Crow, O'Dell, E ..... Lubbock
Cruce, Helen Mae, HE ..... Paducah
Crume, Gladys, Ed ..... Eldorado
Crye, Mrs. Helen M., 5G ..... El Paso
Culp, Ray, 5G ..... Lamesa
Cumbie, Louise, Ed ..... Roby
Cummings, Elma, Ed ..... Ralls
Cummings, Inez, Ed ..... Wellington
Cummings, John R., G ..... Byers
Cummings, Logan O., G ..... Wellington
Cummings, Mary Esther, B ..... Byers
Cummings, Mrs. Vivian S., Ed ..... Ralls
Cunningham, Noah, 5G ..... Memphis
Cunningham, W. C., 5Ed ..... Benjamin
Cupp, Olen, A ..... Earth
Curfman, Mrs. Dorothy Nabers, 5G .. Pecos
Curfman, Raymond, G ..... Lubbock
Currey, Ernest, G ..... Wilson
Currey, Jake L., E ..... Wilson
Curry, James Nelson, S ..... Killeen
Curtis, Annie Mae, 5HE ..... Hedley
Cuttler, Ellie, 5G ..... Direct
Dahnke, Hazel F., S ..... Lubbock
Dale, C. R., Ed ..... Wink
Dale, Edwin, E ..... Henrietta
Dalton, Annyce, 5G ..... Rotan
Dalton, Virginia, G ..... Rotan
Daniel, Arthur, S ..... Marie
Daniel, Clifton, E ..... Tucumcari, N. Mex.
Darden, Chloe, Ed ..... Lubbock
Dark, Esther, Ed ..... Sand
Daugherty, Olive, G ..... Pampa
Davenport, Jane, G ..... Dallas
Davenport, Mrs. Lola, G ..... Crowell
Davidson, Joe, B ..... Lubbock
Davidson, Thelma, G ..... Chillicothe
Davies, Bernice, G ..... Lubbock
Davies, Josephine, 5Ed ..... Southland
Davis, Dora Baker, Ed ..... Dimmitt
Davis, Dortha, HE ..... Lubbock
Davis, Foy, B ..... Sulphur Springs
Davis, Geraldine, B ..... Lubbock
Davis, Glenn, S ..... Clovis, N. Mex.
Davis, Mrs. Lyall Pickett, Ed ..... Post
Davis, Norman, Ed ..... Wildorado
Davis, Ronald, 5A ..... Happy
Davis, Sam, 5Ed ..... Abernathy
Daviss, Charley, Ed ..... Lubbock
Dawkins, E. F., 5A ..... Lubbock
Dawson, G. E., 5Ed ..... Lubbock
Day, Dorothy, B ..... Claude
Day, Fred, A ..... Waco
Day, G. R., Ed ..... Brownfield
Dean, Ben J., G ..... Breckenridge
Dean, Maud, 5G ..... Slaton
Deats, Hollis W., E ..... Christoval
Delahunty, Jack W., G ..... Lubbock
Dement, Ernest, E ..... Plainview
Dempster, Louise, Ed ..... Hamilton
Denby, Dorothy, 5G ..... Jacksonville
Denman, Billie, B ..... Lubbock
Dennis, Orian, 5Ed ..... Littlefield
Denton, Bessie, Ed ..... Littlefield
Denton, Loran, A ..... Lakeview
Derr, Opal Jo, G ..... Ralls
Dickason, Bob, G ..... Wink
Dickenson, Curtis, Ed ..... Levelland
Dickson, James, A ..... Ropesville
Dickson, Joe A., E ..... Borger
Diersing, Frances, 5G ..... Littlefield
Dillingham, Richard, G ..... Santa Anna
Dingus, G. W., E ..... Munday
Diserens, Mrs. Gladys, Ed ..... Dumas
Dobbins, C. Ray, A ..... Denton
Dockray, Felice, 5G ..... Lubbock
Dockray, Willie Pearl, 5G ..... Lubbock
Doherty, Donald, B ..... Lubbock
Donaldson, Mrs. Anna B., 5Ed .... Lubbock
Donaldson, H. Edwin, E ..... Lubbock
Donelson, Edward L., G ..... Lubbock
Donelson, Martha Jane, B ..... Lubbock
Doneslon, Sue, B ..... Lubbock
Donley, William Guy, 5Ed .. Hobbs, N. Mex.
Doss, Monroe Scott, A ..... Seminole
Doty, W. J., E ..... Monument, N. Mex.
Dougherty, Lynn, 5G ..... Levelland
Douthit, Corbin, B ..... Tahoka
Douthit, Eva, G ..... Tahoka
Dowda, Van D., E ..... Cisco
Dowda, Waldarene, S ..... Cisco
Dowell, Erlene, HE ..... Quail
Doyle, Bernice, 5G ..... Slaton
Drake, Phyllis, 5HE ..... Kress
Drewry, Joan, HE ..... Slaton
Driskill, Jack Lee, Ed ..... Turkey
Driver, Ben Carl, 5S ..... Midland
Dryden, B. Frederick, 5G .. Cincinnati, Ohio
Duckworth, Donna, HE ..... Lubbock
Duckworth, Frances, HE ..... Post
Dudgeon, Catherine, G ..... Tahoka
Dudgeon, Edna, 5S ..... Tahoka
Duff, Beryl, HE ..... Lubbock
Duff, Pauline, G ..... Weinert
Duke, Herma, Ed ..... Lubbock
Dulaney, Eugene, S ..... Lubbock

Dulaney, Ruby, B ..... Lubbock
Dulin, Mrs. Joe, Ed ..... Colorado
Duncan, Ruby, HE ..... Muleshoe
Dunham, Morton, G ..... Lubbock
Dunlop, Margaret, 5G ..... Lubbock
Dunshie, Mrs. Blanche, G ..... Beaumont
Durham, Eulene, G ..... Snyder
Durham, Neil, B ..... Lubbock
Dyer, Laura Lilly, 5Ed ..... Mineral Wells
Eagan, Buford, B ..... Olney
Earhart, Mildred, 5HE ..... Como
Earl, Lewis H., 5G ..... Peacock
Early, Vera, G ..... Hermleigh
Earthman, Floyd, G ..... Slaton
Easterwood, James Hardin, S ..... Lamesa
Eaton, Nola Fern, B ..... Lubbock
Eaton, Summy Lea, B .....Rule
Eddins, Bette, B ..... Estelline
Edelmon, Ruth, G ..... Friona
Edelmon, W. L., 5Ed ..... Friona
Edgar, George Verlon, S .....Whitharral
Edwards, Bera Maude, G ..... Post
Edwards, Cecil, G ..... Cisco
Edwards, Ethy Lou, Ed ..... Lubbock
Edwards, G. Smith, G ..... Lubbock
Edwards, Helen, 5HE .....Tulia
Edwards, Marion Brownfield, 5S .. Brownfield
Edwards, Mary Bender, 5Ed ..... Abilene
Eichelberger, Mrs. Neely, G .....Lubbock
Elam, Norene, 5B ..... Wildorado
Elkins, C. H., 5S ..... Lubbock
Ellington, Evelyn, E ..... Bledsoe
Elliott, Don, A .....Shallowater
Elliott, Elizabeth, HE ..... Anton
Elliott, Melzine, Ed ..... Lubbock
Elms, Virgil, 5G ..... Friona
Emery, Frances, G ..... Lubbock
Engleman, Mrs. Clota, Ed ..... Spur
Ernest, Arthur, B ..... Dallas
Erwin, Mrs. May, Ed ..... Weatherford
Eskridge, Charles, 5Ed ..... Marlin
Essary, Andrew H., A ..... Morton
Evans, Curtis L., 5Ed ..... Ropesville
Evans, Weldon, B ..... Lubbock
Evers, Frances C., Ed ..... Brady
Evers, Mary Kate, HE ..... Itasca
Ezzell, Bert, 5Ed ..... Cisco
Farr, Alton, 5Ed ..... Bovina
Farr, E. L., 5Ed ..... Hermleigh
Farr, F. L., S ..... Hermleigh
Faulkner, Rex Virgil, A ..... Quitaque
Faver, Dudley E., 5Ed ..... Sweetwater
Faver, Ralph, A ..... Hawley
Felts, Bobbie, G ..... Kirkland
Felts, Joyce H., 5Ed ..... Tahoka
Felty, Pearl Hufstedler, 5HE ..... Lubbock
Fenton, Lela La France, G ..... Odessa
Ferebee, D. M., E ..... Lubbock
Fette, Dorothy, HE ..... Muenster
Fields, Wallace, S ..... Shamrock
Finch, Richard H., 5Ed ..... Leila Lake
Finley, William J., G ..... Lefors
Finnell, John W., B ..... Holliday
Fisher, Addie, Ed ..... Lubbock
Fisher, A. Frank, G ..... Electra
Fisher, Anna Lee, S ..... Petersburg
Fisher, Dorothy, Ed ..... Canadian
Flaniken, Kathleen, S ..... Rogers
Foote, Dorothy, Ed ..... Spur
Foote, Helen, HE ..... Petersburg
Forbis, James W., 5G ..... Whitesboro
Ford, Bessie Lee, HE ..... Lubbock
Foreman, Dave, B ..... Rotan
Foreman, Mrs. Dave, 5Ed .....Rotan
Foreman, Nadine, HE ..... Spur
Forrest, Edwin L., B ..... Lamesa
Fort, Addie Belle, 5B ..... Lubbock
Foster, Hardy Eddins, S ..... Dickinson
Fossum, Selma, 5G ..... Hayfield, Minnesota
Foster, Kathryn, G ..... Kermit
Foster, Warren, 5Ed ..... Fort Smith, Ark.
Foust, Cloise, B ..... Littlefield
Fowler, A. T., 5A .....Brownfield
Fowler, Anis, B ..... Silverton
Fowler, Evelyn B., 5B ..... Canyon
Fowler, Merle O., A ..... Happy
Fox, Elisabeth, G .....Lubbock
Fox, Mrs. Sivolah Bass, Ed . Tatum, N. Mex.
Francis, Claude, B ..... McKinney
Frasier, Vada, HE ..... Ranger
Fry, Maxine, 5G ..... Floydada
Fugate, Martha Sue, B ..... Lubbock
Fulford, Johnnie, G ..... Tahoka
Fullagar, Mary Lee, B ..... Lohn
Fuqua, Duane, 5G ..... Amarillo
Gage, Theodore, 5A ..... Estancia, N. Mex.
Gaither, Mary Elizabeth, G ..... Ft. Worth
Galloway, Faye, 5G ..... Brownwood
Gamblin, Geraldine, HE ..... Floydada
Gammill, Jimmy, 5Ed ..... Lubbock
Gammill, Nina Ruth, G ..... Lubbock
Gandy, George, A ..... Kelton
Garland, Mildred, Ed ..... Buffalo
Garrison, Shirley, A ..... Idalou
Gary, Bonnie, 5Ed ..... Snyder
Gary, Earnestene, HE ..... Petersburg
Gathing, Emma, HE ..... Roscoe
Gathing, Lucy, G ..... Roscoe
Geary, John C., A .....Dumas
Gentry, Warren, 5S ..... Cisco
George, Jerome, S ..... Lubbock
George, Louise, G ..... Lubbock
Germany, Louise, G ..... Petersburg
Ghetian, Myron, G ..... Lubbock
Gholson, Elsie, HE ..... Haskell
Gibbs, Anna Lee, G ..... Delwin
Gibson, Joe A., 5Ed ..... Childress
Gibson, Mary Ruth, Ed ..... Lubbock
Gilbert, Braswell, B ..... Lamesa
Gilbert, Samuel, A ..... Dallas
Gilbert, W. B., E ..... Flomot
Giles, Mauryce, G ..... Tahoka
Gill, Joyce, HE ..... Levelland
Gilliland, Elton, B ..... Big Spring
Ginn, Guy W., E ..... Lubbock
Gist, Byron, A ..... Amarillo
Glass, Eppright, A ..... Lubbock
Glenn, Fletcher M., S ..... Amarillo
Gober, A. Webb, A ..... Farwell
Godfrey, Jane, HE ..... Spur
Goldwater, Annie Wood, 5G Anthony, N. Mex.
Gollihar, Lorraine, HE ..... McAdoo
Goodson, Nina, B ..... Lubbock
Goodwin, Opal, Ed ..... Borger
Goodwin, Mrs. Robert, B ..... Lubbock
Gordon, Betty Alice, G ..... Lubbock
Gossett, Ralph, B ..... Post
Gowdy, Mrs. J. A., Ed ..... Olton
Graham, James, S ..... Sweetwater
Graham, Ollibe M., Ed ..... Plainview
Graham, Orval, G ..... Quitaque
Grant, Lucille, Ed ..... Big Spring
Grant, Zan, Ed ..... Big Spring
Graves, Lottie, 5G ..... Lubbock
Gray, Mrs. Billie M., Ed ..... Lubbock
Gray, George B., 5S ..... Cee Vee
Gray, Ruby Lee (HE) ..... Tahoka
Graydon, Frank, B ..... Lubbock
Green, Alma Fern, G ..... Brownfield
Green, Cecil, A ..... Bridgeport
Green, Clovis, E ..... Lubbock
Green, E. J., G ..... Lamesa
Green, Edwin, 5G ..... Gewhitt
Green, Evelyn, Ed ..... Mobeetie
Green, Helen Jones, G ..... Lubbock
Green, Lorene, HE ..... Bridgeport
Green, Mollie Belle, G ..... Graford
Green, Nancy, 5G ..... Lubbock
Green, Pauline, G ..... Lubbock
Green, Raymond, 5G ..... Tahoka
Green, William, G ..... Lubbock
Greenfield, James L., B ..... Shamrock
Greenlee, L. C., B ..... Lubbock
Gregory, Bertha Evelyn, Ed ..... Petersburg
Gressett, Winnie Faye, Ed ..... Westbrook
Griffin, Annie Laura, HE ..... Big Spring
Griffin, Hester Lea, B ..... Lubbock
Griffis, Ruth, Ed ..... Lubbock
Griffith, Florence, 5HE ..... Lamesa
Griffith, Willis B., G ..... Dickens
Grigg, Melvin, 5B ..... Lubbock
Griggs, Joseph R., 5Ed ..... Lubbock
Grimes, Dale E., 5Ed .....Edinburg
Groves, Elton, A ..... Benjamin
Grundy, Edward T., E ..... Quitaque
Gulledge, Mary Nelle, B ..... Lubbock
Gunn, Muriel, G ..... Cuthbert
Gunter, Mary Kathryn, HE ..... Conway
Guthrie, Essie Lee, HE ..... Sweetwater
Guzick, Frank, 5B ..... Sherman

Hackney, Mrs. B. G., Ed ..... Brownfield
Haddon, Joe, G ..... San Angelo
Hadley, Walter, A ..... Farwell
Hailey, Buford, A ..... Red Springs
Hailey, Mrs. Buford, Ed ..... Lubbock
Hair, Louise R., G ..... Big Spring
Hale, Lois, 5G ..... Commerce
Hale, Lorene, Ed ..... Kalgary
Haley, Harold, 5Ed ..... Baird
Haley, Mrs. Virginia, 5G ..... Stanton
Hall, Gladys, G ..... Lubbock
Hall, J. A. Jr., S ..... Lubbock
Hallmark, Mrs. Lella May, Ed ..... Lubbock
Halsey, James, S ..... Plainview
Hamilton, Alice, G ..... Richmond, Mo.
Hamilton, Mrs. Aura Mae Grissom, Ed .. .. Lubbock
Hamm, Bill, E ..... Austin
Hampton, Frances, Ed ..... Pampa
Hampton, Willie, G ..... Olton
Hancock, Dee, G ..... Lubbock
Hancock, Edward Erwin, 5Ed ..... Ralls
Hancock, Jack, A ..... Tahoka
Hancock, Mrs. La Verne, G ..... Lubbock
Hancock, W. E., 5Ed ..... Chillicothe
Hanes, Eloise, 5G ..... Littlefield
Hankins, Mildred Mitchell, B ..... Lubbock
Hanshu, Helen, HE ..... Darrouzett
Hanson, Howard H., A ..... Water Valley
Hard, Laura, HE ..... Shallowater
Harding, G. W., A ..... Byers
Harding, John, 5B ..... Byers
Harding, Kathryne, Ed ..... Byers
Hardt, Frank T., G ..... St. Louis, Mo.
Hardy, H. L., E ..... Throckmorton
Hargrave, L. M., 5A ..... Wolfforth
Harmel, Millie, Ed ..... Plainview
Harp, John W., S ..... Abernathy
Harper, Elizabeth, E ..... Lubbock
Harper, Enos W., 5Ed ..... Farwell
Harper, H. C., A ..... Swearingen
Harred, Edith, Ed ..... Normandy
Harred, Hallie, G ..... Normandy
Harrell, Clayburn, A ..... Spur
Harrell, Fleda, G ..... Lubbock
Harrell, Irene, Ed ..... Lamesa
Harris, L. B., E ..... Friona
Harris, Mabel, 5G ..... O'Donnell
Harris, Richard, B ..... Ralls
Harrison, Ruby, HE ..... Floydada
Hartsell, Opal, 5G ..... Floydada
Hartzog, Harry, Ed ..... Clarendon
Harvey, Mrs. June, HE ..... Shamrock
Harvey, Marvin J., 5Ed ..... Abernathy
Harvey, Ora Mae, G ..... Shamrock
Harvey, Owen, A ..... Shamrock
Haskins, Rayburn, S ..... Wolfforth
Hasson, Jack, E ..... Lubbock
Hastings, Mrs. Emma May, 5HE .. Levelland
Hastings, Jack, B ..... Lamesa
Hastings, Olin, B ..... Roscoe
Hatcher, Billy Joe, G ..... Lubbock
Hatcher, Mrs. Connie, Ed ..... Morton
Hatchett, Don, S ..... Lubbock
Hauk, Juanita, Ed ..... Levelland
Havran, Edward, A ..... Knox City
Hawkins, Elmer John, S ..... Sylvester
Hawkins, Walace E., G ..... Lubbock
Hawthorne, Katie Bell, Ed ..... Post
Hayes, Cantrell, 5Ed ..... Slidell
Hays, Addie Jane, HE ..... Lubbock
Hays, A. Z. Jr., G ..... Wellington
Hays, Mrs. A. Z. Jr., S ..... Wellington
Hays, B. M., A ..... Lubbock
Hays, Ethel Lynn, HE ..... Snyder
Hays, James Leroy, S ..... Dodson
Hays, L. M., 5Ed ..... Indian Creek
Hays, Robert, S ..... Brady
Hazel, Sybal, 5Ed ..... Spur
Hazelton, Oliver Jr., E ..... Loving
Head, Mildred, G ..... Lubbock
Heald, Edgar, G ..... Lubbock
Heard, J. R. (B) ..... Hurlwood
Heath, Ruby, Ed ..... Seminole
Hebel, Pete, 5G ..... Waco
Heck, Floyd, A ..... Wilson
Heggen, Bernice, G ..... Abernathy
Heidel, Finis, G ..... Lubbock
Hembree, Thomas, E ..... Margaret
Hemphill, Floyd, 5Ed ..... Littlefield
Henderson, Allie, HE ..... Farwell
Henderson, Bryan C., 5G ..... Dallas
Henderson, Mrs. Bryan C., G ..... Dallas
Henry, Allen, A ..... Sterling City
Henry, Ruth, G ..... Lorenzo
Hensley, Jessie Lee, HE ..... Lubbock
Hensley, Johnnie M., 5Ed ..... Snyder
Henson, Maggie, HE ..... Meadow
Hering, Woodrow, E ..... New Braunfels
Herring, Lois, 5G ..... Glazier
Herring, Lucille, B ..... Glazier
Hicks, Charles, S ..... Colorado
Hicks, T. B., A ..... Snyder
Hicks, Travis, S ..... Corpus Christi
Higgins, Louester, HE ..... Fluvanna
Hightower, Harold, S ..... Memphis
Hilburn, James, Ed ..... Childress
Hill, Eloise, 5G ..... Clarendon
Hill, Emma C., 5Ed ..... Ft. Smith, Ark.
Hill, Mrs. Fannie, 5Ed ..... Amarillo
Hill, Jewell Weaver, 5Ed ..... Amarillo
Hill, J. M., 5A ..... Tulia
Hill, John Jr., S ..... Midland
Hill, John Paul, G ..... Carey
Hill, Nell, HE ..... Carey
Hill, Mrs. Patsy Ruth, 5G ..... Slaton
Hill, Reba, G ..... Morton
Hilliard, Betty Ann, B ..... Littlefield
Hilliard, Linioel, 5G ..... Lubbock
Hinds, Barnett, 5Ed ..... Tye
Hinds, J. S., 5Ed ..... Stamford
Hinds, Raymond, E ..... Tye
Hix, Argen, HE ..... Wellington
Hix, Margaret, G ..... Wellington
Hobbs, Earl, 5B ..... Littlefield
Hochstein, Geraldine, HE ..... Nazareth
Hodges, Martha Evelyn, HE Portales, N. Mex.
Hodnett, Mrs. Jim, Ed ..... Vincent
Hoffman, Claude, A ..... Paint Rock
Hofues, Frank Jr., B ..... Lubbock
Hogg, Gracie Mae, HE ..... Lamesa
Holcomb, William, 5Ed ..... Sulphur Springs
Holcomb, Ruby Lee, Ed ..... Plainview
Holden, Frances Mayhugh, 5G ..... Lubbock
Holden, Mary Edith, Ed ..... Clyde
Holder, Mrs. Naomi M., Ed ..... Lamesa
Holland, Eileen, B ..... Childress
Hollingsworth, Roy, 5Ed .. Tatum, N. Mex.
Holloway, Maretta, HE ..... Lubbock
Holmes, T. H. Jr., S ..... Ralls
Holt, Aubrey, A ..... Cisco
Holt, Mary, B ..... Muleshoe
Holt, Mary Nell, G ..... Lubbock
Holton, Josephine, HE ..... Dallas
Hooser, Winnie Jo, G ..... Plainview
Hooten, Maude L., HE ..... Woodson
Hoover, Herbert, 5A ..... Post
Hopkins, Christine, HE ..... Byers
Horn, Beth, G ..... Bronte
Horne, Joe, S ..... Lubbock
Horner, J. G., E ..... Hallsville
Horner, Mrs. J. G., G ..... Hallsville
Houston, Mrs. C. Chilcoat, G ..... Paducah
Howard, Inez, Ed ..... Roswell, N. Mex.
Howell, Harlan, 5A ..... White Deer
Howell, Hobson, 5S ..... Paducah
Howell, Johnny Byron, S ..... Post
Howell, Lois, G ..... Paducah
Hubbert, Lily Saxon, Ed ..... Hart
Huchingson, Ira R., 5Ed ..... Roscoe
Huff, Olive, G ..... Lubbock
Huff, Ollie Lee, HE ..... Merkel
Huff, Mrs. Ruby, 5G ..... Lubbock
Hughes, Juanita, HE ..... Higgins
Hughes, La Verne, HE ..... Merkel
Hughes, Malone, 5G ..... Paris
Hull, Clarice, 5Ed ..... Amarillo
Hulsey, Ethel, 5Ed ..... Olton
Humphries, Katalynn, G ..... Whiteflat
Hunt, Cagle, 5Ed ..... San Angelo
Hunt, Ozella, 5G ..... McLean
Hunt, Zelma, 5Ed ..... San Angelo
Huntley, Mrs. Addie Autrey, Ed ..... Hobbs, N. Mex.
Hurn, Richard, E ..... Henrietta
Hutchings, Dapheene, G ..... Dimmitt
Hutchinson, Eva, 5Ed ..... Amherst
Hutchinson, Mary M., Ed ..... Sudan

Hutchinson, S. O., 5Ed ..... Amherst
Hyman, Ruel, S ..... Olton
Hynds, Nat, 5Ed ..... White Deer
Hynds, Ray, 5G ..... Lubbock
Ingram, Irwin, 5A ..... Lubbock
Ingram, Mrs. Irwin, 5Ed ..... Lubbock
Irvine, Norma Louise, Ed .....Kempner
Isaacs, Oleta, Ed ..... Shamrock
Isbell, Bernetta L., 5G ..... Plainview
Jack, Hilton, A ..... Lamesa
Jackson, Mrs. Clarina, B ..... Dalhart
Jackson, Mrs. Doris, Ed ..... Morton
Jackson, C. T., G ..... Lubbock
Jackson, Elbert W., B ..... Anton
Jackson, Frank, S ..... El Paso
Jackson, Lloyd, Ed ..... Loraine
Jackson, Oneta, E ..... Alma
Jackson, Rex, G ..... Tahoka
Jaggers, Zack, A ..... Talco
James, Clyde W., 5S ..... Tulia
James, Lady Clare, 5HE ..... Lubbock
James, Macon, A ..... Lubbock
James, Mrs. Margaret Lindsey, 5G .... Tulia
James, Robert, A ..... Belton
Jarratt, Curtis, G ..... Lubbock
Jarratt, Frances, B ..... Lubbock
Jarrett, Mrs. Esther Baird, 5Ed .... Lubbock
Jarvis, Harry C., E ..... Lubbock
Jenkins, Mrs. Autie, Ed ..... Slaton
Jennings, Evelyn, 5HE ..... Lubbock
Jerman, Iris, Ed ..... Amarillo
Jessup, Martha Sue, S ..... Sheffield
Jinkins, Mrs. Clifford, Ed ..... Sudan
Jinkins, Reba O., 5Ed ..... Sudan
Johnson, Mrs. Blanche C., Ed .... Muleshoe
Johnson, Daylon, G .....Shamrock
Johnson, Faula, HE ..... Lubbock
Johnson, Garvice, G ..... Kirvin
Johnson, Granville Jr., B ..... Lubbock
Johnson, Jack, G ..... Eastland
Johnson, Jesse M., 5A ..... Lubbock
Johnson, Julia, Ed ..... Lubbock
Johnson, Mrs. Ludye C., 5G ..... Lubbock
Johnson, Mary Lois, G ..... Lubbock
Johnson, Minibel, G ..... Lubbock
Johnson, Nancy, 5G ..... Lubbock
Johnson, Naomi, Ed ..... Lubbock
Johnston, Bill, A ..... Lubbock
Johnston, H. A., G .....Hamlin
Johnston, Jewell B., G ..... Lubbock
Joiner, Ernest, G ..... Lubbock
Joiner, Ormonde. G., G ..... Lubbock
Jones, Aubrey, A ..... Groom
Jones, Carl W., B ..... Dumont
Jones, Charles, E. .....Lubbock
Jones, Charlotte, 5Ed ..... Eldorado
Jones, Clark B ..... Lubbock
Jones, E. R. Jr., A ..... Hermleigh
Jones, Floyd, E ..... Paducah
Jones, Forrest W., A ..... Lubbock
Jones, Mrs. Hazel Gibson, Ed ..... Cleburne
Jones, Ina Miller, Ed ..... Lockney
Jones, Ione, 5B ..... Lubbock
Jones, Joni Lu, G ..... Stanton
Jones, J. Wilford, 5Ed ..... Lockney
Jones, Lewis N., 5G ..... Lubbock
Jones, Mildred, Ed ..... Lubbock
Jones, Morris H., G ..... Lubbock
Jones, Oliver, 5Ed ..... Roanoke
Jones, Rance, S ..... Megargel
Jones, Raymond, B ..... Lamesa
Jones, Robbie P., Ed ..... Trent
Jones, Travis, E ..... Wheeler
Jones, Truman, A ..... Poolville
Jones, Van B., A ..... Poolville
Jones, W. Bernice, 5Ed ..... Roby
Jons, Maurine, E ..... Lubbock
Jordan, Lera, 5G ..... Monahans
Jordan, Lucille Taylor, G ..... Becton
Jordan, Sallie V., 5G ..... Lohn
Joyce, Hilma, S ..... Colorado
Joyner, Victor, A ..... Spur
Justice, Mrs. A. M., 5B ..... Marshall
Kaigler, Tom B. .....Haskell
Kaiser, Eugene C., 5S .... Weatherford, Okla.
Kallina, Susie Faye, 5G ..... Ballinger
Karsten, Mrs. Fay, 5Ed .. Lovington, N. Mex.
Kathman, C. A., G ..... Portales, N. Mex.
Kayser, J. Merrill, 5G ..... Weatherford
Keen, Mrs. Lucille D., S ..... Lubbock
Keese, Mrs. Linnie Mae, Ed ..... Hurlwood
Keeton, Lucille M., Ed ..... Hillsboro
Keithley, Xezvus, 5G ..... Sudan
Keller, Evelyn, G ..... Lubbock
Kellerer, John, 5Ed ..... Borger
Kelly, Vorus, G ..... Lubbock
Kelton, Norris, 5Ed ..... Baird
Kelton, Mrs. Norris, G ..... McCamey
Kennedy, Crysta, Ed ..... Putman
Kennedy, Crystal, G ..... Muleshoe
Kennedy, Hattie, 5Ed ..... Lubbock
Kennedy, Jack, B .....Rotan
Kent, Richard, 5E ..... Lubbock
Kerby, Loy, G ..... Hermleigh
Kern, Catherine, G .....Nazareth
Kern, Margaret, G ..... Nazareth
Kesler, Elton, A ..... Wellington
Kiker, Charles, 5Ed ..... Canyon
Kiker, Joseph, B ..... Breckenridge
Killough, Thelma, 5G ..... Littlefield
Kilpatrick, Jimmie, E ..... Lubbock
Kilpatrick, J. R., G ..... Cisco
Kimbrell, Wanda, HE ..... Idalou
Kinder, Mrs. L. H., Ed ..... Lamesa
King, Allen Hilton, A ..... Lubbock
King, John G., E ..... Lubbock
King, Nancy, B ..... Albany
King, Mrs. Odelle M., Ed ..... Tahoka
King, Rosalie, HE ..... Bellview, N. Mex.
King, W. A., 5A ..... Floydada
Kinsey, L. K., 5Ed ..... Littlefield
Kirby, Dahlia, G ..... Lubbock
Kirby, Jewel J., Ed ..... Talco
Kirby, Selmer M., 5Ed .....Talco
Kirk, Doris, G ..... Spearman
Kirkpatrick, Ben R., E ..... Marysville
Kirkpatrick, Lois, Ed ..... Littlefield
Kittley, Wayne, G ..... Sudan
Kley, John, G ..... Eastland
Knapp, Faith, 5G ..... Lubbock
Knapp, Virginia, G ..... Lubbock
Knight, Janie, Ed ..... Seymour
Knowles, Melton, 5Ed ..... Panhandle
Koen, Irene, HE ..... Carbon
Kolb, Doris Charlotte, G ..... Lubbock
Krause, A. K., 5Ed ..... Ropesville
Kroll, Neva, G ..... Ute, Iowa
Kube, Ludwig, E ..... Farwell
Kuykendall, Roger, B ..... Lubbock
Lair, Nard, 5S ..... Lubbock
Lam, Raybon, S ..... Sudan
Lambert, A. C., G ..... Lubbock
Lamm, J. T., G ..... Lubbock
Land, Elizabeth, G ..... Lamesa
Land, Russell, S ..... Paris
Landis, Jimmie Van, G ..... Clovis, N. Mex.
Landrum, J. C., B ..... Fluvanna
Landrum, Margie, Ed ..... Artesia Wells
Landtroop, Lois, Ed ..... Plainview
Lane, Mrs. G. W., Ed ..... Cee Vee
Laney, Carolyn, 5G ..... Lubbock
Lange, Martha, HE ..... Nazareth
Langford, Don, E ..... Bluff Dale
Langford, Maxine, 5S ..... Bluff Dale
Lanier, Barbara, Ed ..... Belton
Larnce, William, E ..... Waco
Latimer, Harold, G ..... Littlefield
Latimer, Howard, B ..... Littlefield
Lauderdale, Edward, G ..... Lubbock
Lauderdale, Mrs. Fay M., Ed .... Big Spring
Laughlin, Myrle, G ..... Roswell, N. Mex.
Lawrence, Ewell, Ed ..... Aspermont
Laws, Mrs. Jeanie B., B ..... Lubbock
Laws, Lois, HE ..... El Paso
Lawson, Astena Harter, HE ..... Post
Leach, Henry R., A ..... Ballinger
Leach, T. L., 5A ..... Lubbock
Leary, Louette, Ed ..... Lubbock
Lee, Frank, E ..... Lubbock
Lee, Josephine, 5G ..... Lubbock

Lee, Robert, 5G ..... Lubbock
Lee, Mrs. W. L., HE ..... Brownfield
Leech, Joseph C., G ..... Lubbock
Legg, Gertrude, 5B ..... Slaton
Legg, Peyton, A ..... Ralls
Legge, Melvin, E ..... Lubbock
Lemley, Fabian, B ..... Crosbyton
Lemons, Mavis, HE ..... Lubbock
Lemons, Wm. H., B ..... Lubbock
Leonard, Dorothy Nell, G., ... Tulia
Leonard, Joseph P., S ..... Lubbock
Leslie, Elnorna, Ed ..... Grand Prairie
Levell, Maeladell, Ed ..... Nocona
Leuenberger, Berthul, E .... Lubbock
Levisay, Evelyn, 5G .... Blanket
Lewis, Billy, G ..... Ralls
Lewis, Charles Wm., G ..... Borger
Lewis, Dessie K., HE ..... Shamrock
Lewis, Quanah, 5G ..... Lubbock
Lewis, W. A., E ..... Roaring Springs
Lieske, Bertha, Ed ..... Sweetwater
Light, Ruth, Ed ..... Bula
Lilley, Lydia Maye, Ed ..... Lubbock
Lilly, W. T., E ..... Elbert
Lindley, David C., 5Ed ..... Littlefield
Lindsey, Herbert Ernest, Ed ..... Wellington
Line, Gwyne, G ..... O'Donnell
Link, Lois, G ..... Tuxedo
Littlepage, Lola Mae, Ed ..... Snyder
Litton, James B., 5E ..... Lubbock
Lockhart, Ernesteen, 5G ..... Lubbock
Loesel, Waldemar, 5G ..... Lubbock
Loflin, Margery, Ed ..... Ralls
Lokey, Jack L., P ..... Lubbock
London, F. C., A ..... Spur
London, Mrs. F. C., Ed ..... Girard
Long, Ina Mae, G ..... Roaring Springs
Long, Maude, Ed ..... Ralls
Looman, Margaret, B ..... Borger
Lott, Jessie, HE ..... Portales, N. Mex.
Lott, Wilson, 5G ..... Ropesville
Love, Billie Ruth Moore, G ..... Henderson
Love, Ima Jewell, G ..... Anton
Love, Jess M., E ..... Brownwood
Lovelace, Flora Lena, 5HE ..... Lubbock
Lovelace, James, E ..... Olney
Lovelady, Kate, Ed ..... Lamesa
Loveless, William Carl, E ..... Decatur
Lovell,, H. L., Ed ..... Dickens
Lovell, Mrs. Iris B., Ed ..... Dickens
Low, Elmo, 5G ..... Laredo
Lowrie, Mrs. Evelyn Flora, Ed .... Crosbyton
Lowry, Leon, E ..... Plainview
Loyd, Doris, 5HE ..... Olton
Loyd, Mrs. Grace, Ed ..... Olton
Loyd, Lucille, HE ..... Olton
Loyd, Owen, 5G ..... Amherst
Loyd, Tommie, E ..... Lubbock
Luckie, Margaret, 5Ed ..... Brownfield
Luttrell, Myrle, Ed ..... Poolville
Lyle, Bill, S ..... Lubbock
McAllister, Winifred, 5G ..... Tuxedo
McAtee, Anne, 5Ed ..... Houston
McBride, Betty, HE ..... Lubbock
McBride, John, E ..... Lamesa
McCafferty, Ray, S ..... Lubbock
McCain, Roberta, HE ..... Slaton
McCall, Mrs. Louise, Ed ..... Lamesa
McCarty, Aubrey, 5G ..... Lubbock
McCarty, Dora Nell, HE ..... Lubbock
McCarty, Martin Winston Jr., E .... Lubbock
McCarty, Mary, 5G ..... Snyder
McCary, Rhenard, B .....Matador
McCaskill, F. A. Jr., A ..... Lubbock
McCauley, Georgene, G ..... Lubbock
McCauley, Inez, HE ..... Lubbock
McChristial, Earmon, S ..... Levelland
McChristy, Albert, 5G ..... Brownwood
McClain, Hope, 5HE ..... Spur
McCleskey, H. L., A ..... Lubbock
McCleskey, Martha Lee, G ..... Floydada
McClure, Martha Lou, Ed ..... Crosbyton
McCollum, Tom, 5Ed ..... Hereford
McCool, Mrs. W. D., Ed ..... Memphis
McCormick, Mrs. Minnie Lee, G .. Lubbock
McCreary, Weldon, A ..... Rockwood
McCreless, Kathleen, G ..... Stanton
McCrorey, Jean, S ..... Wichita Falls
McCrummen, Marie, S ..... Lubbock
McCuistion, La Vola, Ed ..... Stamford
McDavid, Jean, G ..... Amarillo
McDonald, Archie S., G ..... McAdoo
McDonald, Jack, E ..... Lubbock
McDonald, Janet M., Ed ..... Lubbock
McDonald, Mary Louise, G ..... Lubbock
McDonald, Robert, A ..... McAdoo
McDougal, Burton, S .....Lubbock
McDougald, Clara Frances, B .. Moab, Utah
McElyea, Mrs. Mary, B ..... Slaton
McGee, Emerson R., E ..... Borger
McGhee, Mildred, 5Ed ..... Borger
McGuire, Gerald, 5Ed ..Alamogordo, N. Mex.
McGuire, Jack, E ..... Lubbock
McGuire, Paul M., 5G ..... Lubbock
McIlwain, James Wm., E ..... Lubbock
McInnis, Winston, A ..... Menard
McKay, Betty, G ..... Brownwood
McKay, J. Vernon, S ..... Humble
McKenzie, John, A ..... Mesquite
McKinney, Edith, Ed ..... Prairie Hill
McKinney, Faye, G ..... Prairie Hill
McLain, Helen Jane, G ..... Lubbock
McLain, Nelson, G ..... Lubbock
McLaughlin, Reid, A ..... McAdoo
McManis, Velma, Ed ..... Tahoka
McMenamy, Fannie Lou, G ..... Lubbock
McMenamy, James, A ..... Lubbock
McMinn, Katherine, Ed ..... Samnorwood
McWhirter, Dale, 5A ..... Stevens
McWhirter, Laverne, 5HE ..... Roby
McWhorter, Garlan, A ..... Tahoka
McWhorter, Weldon, A ..... Wolfforth
McWilliams, Pauline, HE ..... McCamey
Mabe, Floy Johnson, G ..... Eagle Pass
Maben, Wesley, B ..... Lubbock
Macha, Georgia, HE ..... Tahoka
Mack, Emily Ann, G ..... Ft. Worth
Madden, Tom, E ..... Slaton
Madden, Wm. Wayne, E ..... Littlefield
Maddox, Robert L., 5Ed ..... Ballinger
Malone, L. Irene, 5G ..... Lubbock
Malone, Madge, G ..... Lubbock
Mannan, Ruth, Ed ..... Dallas
Manning, Mrs. Katherine, Ed ..... Lubbock
Manning, Noble, 5G ..... Idalou
Mara, Helen, Ed ..... Decatur
Marcom, Preston J., 5Ed ..... Levelland
Marks, Mary Margaret, B ..... Lubbock
Marshall, Elwyn, B ..... Whitesboro
Martin, Almon, 5G ..... Garden City
Martin, Arthur, E ..... Vega
Martin, Geneva, G ..... Lorenzo
Martin, Mrs. Georgia Belle, Ed .... Lubbock
Martin, Howard, G ..... Garden City
Martin, Mrs. Ina G., 5G ..... Forsan
Martin, James H., 5Ed ..... Lubbock
Martin, Leland L., 5Ed ..... Forsan
Martin, Lucille, G ..... Gould, Okla.
Martin, Sam, G ..... Plainview
Martin, Thomas C., Ed ..... Lamesa
Martin, Wanda, G ..... Forsan
Martin, Winston, A ..... Big Spring
Mason, Marian Lee, G ..... Post
Masten, Edith, HE ..... Plainview
Masten, Reese, 5Ed ..... Hale Center
Masters, Hardy, S ..... Lubbock
Matthews, Ruth, Ed ..... Littlefield
Maxey, Herschel, E ..... Lubbock
Maxwell, Everett B., 5Ed Lovington, N. Mex.
Maxwell, Faye, 5HE ..... El Paso
Maxwell, Gladyce, G ..... Lamesa
May, Aliene, S ..... Westbrook
May, Wesley C., 5G ..... Pecos
Mayes, Faye, 5G ..... Paducah
Mayfield, Bernice, Ed ..... Spur
Mayfield, Ernest, Ed ..... Lubbock
Mayfield, Ruth, HE ..... Roby
Mays, Page, S ..... San Antonio

Meading, Mrs. Bessie, Ed ..... Slaton
Mealer, Beatrice, Ed ..... Olton
Mebus, Katherine Sue, B ..... Tornillo
Meekma, Florence, G ..... Olton
Melton, Herman, A ..... Chickasha, Okla.
Merriman, Eva Maude, E ..... Lubbock
Meskimen, Jane, G ..... Lubbock
Messersmith, Frank, E ..... Ft. Worth
Metcalfe, Mrs. Pearl R., 5Ed ..... Lubbock
Meyers, Juanita, HE ..... Lubbock
Meyers, Thelma, Ed ..... Hobbs, N. Mex.
Middlebrooks, Unell, HE ..... Afton
Milburn, Wilma, HE ..... Cresson
Millard, Myra, Ed ..... Childress
Miller, Annie Faye, HE ..... Morton
Miller, Dewey, 5Ed ..... Plainview
Miller, Eli, E ..... Brooklyn, New York
Miller, Harry, 5S ..... Lubbock
Miller, Hilda, 5G ..... Canyon
Miller, J. G., 5Ed ..... Loop
Miller, Mrs. John E., Ed ..... Gatesville
Miller, John O., E ..... Meadville, Pa.
Miller, Johnnie M., HE ..... McAdoo
Miller, Mayme Lee, Ed ..... Levelland
Miller, Mildred, E ..... Muleshoe
Miller, Nancy Ann, E ..... Lubbock
Miller, W. H., B ..... Snyder
Millikin, J. Homer, 5Ed ..... Lubbock
Mills, Arthur, A ..... Sterling City
Mills, George Lee, G ..... Lubbock
Mills, J. V. Jr., B ..... Dumas
Mitchell, Frank, E ..... Lubbock
Mitchell, Hazel, G ..... Lovington, N. Mex.
Mitchell, Rosalind, B ..... Roaring Springs
Mize, Rufus E., G ..... Hermleigh
Moffatt, Juanita, Ed ..... Lubbock
Montgomery, Clyyde, A., A ..... Littlefield
Montgomery, Delia, Ed ..... Kress
Montgomery, Porter, G ..... Dalhart
Moore, Bessie Mae, 5Ed ..... Littlefield
Moore, Edward B., E ..... Ft. Worth
Moore, Elmer J., 5Ed ..... Olton
Moore, Evelyn Pearl, G ..... Quitaque
Moore, Hazel, HE ..... McAdoo
Moore, H. L. P., E ..... Bonham
Moore, Horace Grady, 5G .. Portales, N. Mex.
Moore, Ima, G ..... Lubbock
Moore, J. R., G ..... Tyler
Moore, Mrs. H. L., Ed ..... Goree
Moore, Lucy, HE ..... Merkel
Moore, Syble Marie, HE ..... Ropesville
Moorhead, Durward, B ..... Meadow
Moorhead, Jerry M., Ed ..... Abernathy
Mooty, Estha, G ..... Muleshoe
Morehead, Sibyl Hutchinson, Ed ... Goodland
Moreman, Ella Norene, G ..... Post
Morgan, J. D., E ..... Turnersville
Morgan, J. P., A ..... Vernon
Morgan, Nora Lee, 5G ..... McLean
Morgan, Ruth, Ed ..... Norton
Morgan, Viola, 5G ..... Spur
Morley, Juanita Pauline, Ed ..... Quanah
Morris, Mary V., G ..... Lamesa
Morris, Milton, 5A ..... Canyon
Morris, Roy, 5G ..... Lubbock
Morton, Agness, Ed ..... Hamlin
Moss, Ennis Jr., G ..... Lubbock
Motley, Mrs. Porter Lee, G ..... Knott
Mullings, Fred R., 5Ed ..... Lorenzo
Mullins, Mrs. Nettie, Ed ..... Anton
Munsinger, Adelle, Ed ..... McCamey
Murdough, James, E ..... Lubbock
Murphy, Johnny, A ..... Ft. Worth
Murray, Mrs. Elizabeth J., Ed ..... Iraan
Murray, Thomas F., G ..... Ft. Worth
Murrell, Mrs. W. E., 5Ed ..... Amarillo
Myers, Jack, S ..... San Angelo
Myers, John H., 5Ed ..... Floydada
Myrick, Walter, E ..... Lubbock
Nabers, Mary, E ..... Pecos
Nachlinger, Viola, HE ..... Hermleigh
Neal, Connally, Ed ..... Temple
Neal, Gayle, A ..... Amarillo
Neal, Helen, G ..... Lubbock
Neeley, Koy, A ..... McAdoo
Nelson, Alton, S ..... Rockwall
Nelson, Eunice, 5Ed ..... El Paso
Nelson, Jack, A ..... Hawley
Nelson, Jack Odell, E ..... Lubbock
Newman, Bill, S ..... Childress
Newsom, W. R., 5Ed ..... Vernon
Nicholas, H. H., 5Ed ..... Lorenzo
Nichols, Erma, G ..... Vernon
Nichols, James T., E ..... Tulia
Nicholson, Muriel, 5HE ..... Fort Stockton
Nickell, Gene, G ..... Brady
Niell, Edwin, B ..... Lubbock
Nippert, Winston, E ..... Clarendon
Nivin, Billy, A ..... Roby
Nixon, Paul, 5Ed ..... Anton
Nobles, Melvin, E ..... Hawley
Nonce, Jacques, G ..... Iraan
Nordyke, Alda, 5G ..... Cottonwood
Nordyke, Hortense, Ed ..... Lubbock
Northam, Laverne, G ..... Ropesville
Notgrass, Autalee, Ed ..... Nimrod
Nowlin, Carl, 5A ..... Tahoka
Nowlin, M. Jack, 5G ..... Taylor
Nunley, Floyd, G ..... Benjamin
Nunnally, Almarine, HE ..... Gail
O'Bryant, Leslie, HE ..... Lubbock
Odom, John, E ..... Lubbock
Ogden, Emadel, Ed ..... Texanna, Okla.
Ogdon, Montell, 5A ..... Lubbock
Ohlenbusch, Louise, HE ..... Goldthwaite
Oliver, A. J., G ..... Lamesa
Oliver, Marjorie, HE ..... San Saba
O'Rear, Jacques, S ..... Lorenzo
Osborn, Earl Jr., E ..... Wichita, Kansas
Osburn, Lucille, 5G ..... Delwin
Osburn, Willis, 5Ed ..... Delwin
Overton, Elbert, A ..... Friona
Owen, Dorothy, Ed ..... Marlin
Owen, Harvy E., A ..... Jacksboro
Owen, Lewis, G ..... Athens
Owens, Charles S., 5S ..... Gallup, N. Mex.
Owens, Marcus, E ..... Lubbock
Owens, Oleta, Ed ..... Vernon
Pace, Alma Lester, 5Ed ..... Tahoka
Palm, John Henry, A ..... Eagle
Palmer, Alice, G ..... Weinert
Parker, Allie Rae Collins, 5B ..... Claude
Parker, Juanita, Ed ..... Big Lake
Parker, Natalie, Ed ..... Garden City
Parker, Ninetta, 5Ed ..... Lubbock
Parker, R. Escar, G ..... Hale Center
Parris, Clytus, E ..... Wilson
Parrish, W. D., B ..... Carey
Parsons, Helen, B ..... Wichita Falls
Partin, Elsie Pendleton, HE ..... Lubbock
Partin, J. W. Jr., G ..... Rule
Patrick, Bertha, Ed ..... Memphis
Patrick, N. G., G ..... Donna
Patterson, Mrs. Allene, 5G ..... Spade
Patterson, Claire, 5Ed ..... Snyder
Patterson, Clifton, S ..... Paradise
Patterson, Don, B ..... Hobbs, New Mex.
Patterson, R. J., 5S ..... Winters
Patterson, Ruth, 5HE ..... Crowell
Pattillo, Paul, 5Ed ..... Lubbock
Patton, Maurine, B ..... Clovis, N. Mex.
Paulger, C. W., S ..... Lubbock
Payne, Crillon, G ..... Paducah
Payne, Glen, S ..... Lubbock
Payne, Louise, G ..... Slaton
Payne, Rilla Catherine, B ..... Colorado
Peckham, Miriam, G ..... Amarillo
Peden, Ruth, HE ..... Lubbock
Pederson, Clyde, S ..... Clifton
Pendleton, Mrs. Marguerite Mason, S .... Stratford
Pendleton, Noma, G ..... Wilson
Pendleton, Robert, B ..... Stratford
Pendley, Mavis, E ..... Lubbock
Perkins, Mary, B ..... Lubbock
Persons, Tom, B ..... Quitaque
Peters, Gerald, S ..... Lubbock
Peterson, Ulysses, E ..... Plainview

Petty, Olan, Ed ..... Pearl
Pfaff, Gerald R., G .... St. Louis, Missouri
Pfennig, Walter F., S ..... Austin
Pharr, Vernon, A ..... Brownfield
Phegley, Mrs. Blanche C., Ed ..... Lockney
Phillips, John L., B ..... Dallas
Phillips, Philip, S ..... Borger
Pickens, Evelyn, Ed ..... Spur
Pickett, Mary, 5B ..... Lubbock
Pickett, Violet, 5G ..... Lubbock
Pierce, Cecil, A ..... Jonesboro
Pierce, Ernest Edwin, S ..... San Saba
Pierce, Milton, A ..... Plainview
Pigman, Bill, E ..... Hermleigh
Pinkerton, J. W., Ed ..... Hale Center
Pinkerton, Mrs. J. W., Ed ..... Hale Center
Pitts, James C., E ..... Amarillo
Plummer, Evelyn, HE ..... Hereford
Poizner, Erwin, E ..... Kansas City, Mo.
Pommerening, C. E., 5Ed ..... Burkburnett
Ponder, Earl R., 5Ed ..... Kalgary
Ponder, Harold, E ..... Kalgary
Ponder, Helen, B ..... Lorenzo
Ponder, Mrs. Maude, Ed ..... Kalgary
Portele, John R., B ..... Marlin
Porter, Helen, Ed ..... Dumont
Porter, Tom, A ..... Floydada
Powell, C. A., B ..... Memphis
Powell, Imogene, B ..... Lubbock
Powell, Laura Frances, HE ..... Lubbock
Powell, Nell Marie, 5Ed ..... Lubbock
Powell, Sherrill, G ..... Lubbock
Pratas, Chris, E ..... Lubbock
Pratt, Mildred, HE ..... Willis
Preston, Earl, B ..... Childress
Prestridge, Barney, S ..... Lubbock
Price, Mrs. L. L., G ..... Morton
Price, Winona, HE ..... Estelline
Prideaux, Tom, S ..... Lubbock
Proctor, Bertha, S ..... Lubbock
Pruitt, Katherine, G ..... Lamesa
Pryor, Gladys, Ed ..... Lubbock
Puckett, Brode, G ..... Post
Puett, Anna Pearl, HE ..... Plainview
Pulley, Elsie, HE ..... Cisco
Purtell, Kenneth, A ..... Brownfield
Puryear, Lela, 5G ..... Lubbock
Quinlan, Jack, E ..... Lubbock
Rackley, Mrs. Olive, Ed ..... Meadow
Ragsdale, James, B ..... Childress
Railsback, Bernice Hickman, Ed .. Levelland
Railsback, Elzora, G ..... Slaton
Railsback, Mrs. Travis, Ed ..... Knott
Rainwater, Eugene, G ..... Vernon
Ramey, Oline, Ed ..... Hereford
Ramsey, Herschel, G ..... Chillicothe
Ramsey, Woodrow, G ..... Chillicothe
Randolph, Wallace, A ..... Lubbock
Ranson, Mrs. Floy, Ed ..... Lamesa
Ranson, Ralph H., Ed ..... Lamesa
Rasberry, Dayle, B ..... Ackerly
Rasi, Sonia, E ..... Pampa
Ratliff, Murl, 5Ed ..... Lubbock
Ray, Jeff, B ..... Belton
Rayburn, John, 5G ..... Slaton
Reasoner, Ardell Wicker, Ed ..... Slaton
Reavis, Mrs. Ruth, Ed ..... O'Donnell
Rector, Kenneth, A ..... Hermleigh
Reddell, Virginia, 5Ed ..... Stanton
Reding, Oneida, HE ..... Whitharral
Reed, Bevington, 5G ..... Carbon
Reed, Erwin, G ..... Margaret
Reed, Mrs. Lottie, HE ..... Lubbock
Reed, Sumner, G ..... Lubbock
Rees, Richard, 5Ed ..... Center Point
Reese, A. F., E ..... Shallowater
Reese, Sylvester, 5B ..... Tahoka
Reeve, Cleo, Ed ..... Dallas
Reeves, Herman, A ..... Munday
Reid, Louise, HE ..... Lubbock
Reynolds, Helenoire, HE ..... Lubbock
Reynolds, Mary Katherine, HE ..... Quanah
Reynolds, Weldon, A ..... McCaulley
Rhea, Alma Faye, G ..... Levelland
Rhodes, Imogene, Ed ..... San Angelo
Rhodes, Mrs. T. A., Ed ..... Lubbock
Rice, Mrs. Boyd, Ed ..... Pep, N. Mex.
Rich, Fred T., G ..... Wolfforth
Rich, Robert, G ..... Wolfforth
Richardson, J. C., 5Ed ..... Plainview
Richardson, Mrs. J. C., G ..... Plainview
Richardson, Orville, A ..... Slaton
Richerson, Hazle, HE ..... Hamilton
Richeson, Walter Wilson, E ..... Lubbock
Richter, Gertrude, B ..... Abernathy
Richter, Hugo, E ..... Abernathy
Riddel, Ralph, 5A ..... Aspermont
Riggs, Marilyn, G ..... Lubbock
Risinger, Wallace, G ..... Roscoe
Roach, Elizabeth, 5G ..... Eliasville
Roach, Samuel, 5S ..... Eliasville
Roberson, Elba Bains, 5Ed ..... Oplin
Roberson, Mary Lou, G ..... Lubbock
Roberts, Mrs. C. E., 5G ..... Lubbock
Roberts, Dorothy, 5S ..... Goodlett
Roberts, Essa Lee, Ed ..... Sweetwater
Roberts, Eunice, G ..... San Angelo
Roberts, Ida Mae Hale, HE ..... Jacksboro
Roberts, John, A ..... Jacksboro
Roberts, Margaret Jane, E ..... Amarillo
Roberts, Rachel, 5B ..... Goodlett
Robertson, Beryl, HE ..... Tahoka
Robertson, Mrs. Emma, Ed ..... Muleshoe
Robertson, Virginia Ruth, 5HE .... Muleshoe
Robertson, Winston, B ..... Lorenzo
Robinson, Helen, B ..... Lubbock
Robinson, Willie, 5Ed ..... Levelland
Robnett, Hoyle, G ..... Lubbock
Robnett, Myrtle, 5Ed ..... Lubbock
Robnett, Naomi Lee, 5Ed ..... Lubbock
Robnett, Nolan J., 5A ..... Stanton
Roddy, Wesley M., A ..... Dennison
Rodgers, Rose Jean, G ..... Post
Rogers, Beulah, HE ..... Little Rock, Ark.
Rogers, Lometa Faye, HE ..... Arlington
Rogers, Marion, B ..... Lubbock
Rogers, R. K., A ..... Lubbock
Rogers, Sidney, A ..... Lubbock
Romane, Bill, A ..... Crosbyton
Rose, Bernice, G ..... Ropesville
Rose, Glenn, E ..... Roaring Springs
Rose, Juanita, HE ..... McAdoo
Ross, E. L., 5A ..... Lohn
Ross, Mrs. E. L., HE ..... Lohn
Ross, Margaret G., Ed ..... Lubbock
Ross, Weldon, A ..... Archer City
Rotan, Harry, A ..... Nolan
Rountree, John B., S ..... Paris
Rowland, Lometa, Ed ..... Wellman
Ruble, Mary Elizabeth, G ..... Lott
Ruble, Tennie Lee, G ..... Lott
Rucker, B. T., 5Ed ..... Shallowater
Rupprecht, Margaret, HE ..... Perryton
Rush, Naomi, HE ..... Booker
Rushing, Eric, B ..... Lubbock
Rushing, Roberta, HE ..... Lubbock
Russ, Jessie, Ed ..... Tahoka
Russell, W. C., G ..... Paris
Ryan, T. Moffett, A ..... Lubbock
Salser, Sylvan, G ..... Brownfield
Samson, James, E ..... Lubbock
Sanders, E. G., 5Ed ..... Samnorwood
Sanders, Louis, S ..... Slaton
Sanders, Norma, HE ..... Lubbock
Sanders, Roy W., Jr., S ..... McCamey
Sanderson, Glen, A ..... Lubbock
Sanderson, W. G., A ..... Whitharral
Sauer, Nellie, 5G ..... Amarillo
Saunders, Ruth, 5Ed ..... Abilene
Scarborough, Pearl, HE ..... Petersburg
Schellenberg, Katherine, 5G ..... Dalhart
Schofield, William, B ..... Lubbock
Schulz, Milton, G ..... Eden
Scott, Iley, Jr., G ..... Hart
Scott, Mrs. Pauline, 5Ed ..... Lubbock
Scott, Robert, A ..... Sylvester
Scruggs, W. E., E ..... Lubbock
Scruggs, Elizabeth, 5G ..... Refugio

Seale, Eugene, S ..... Lubbock
Seale, Georgia, G ..... Lubbock
Seale, Orris, A ..... Lubbock
Sears, A. C., A ..... Merkel
Sedwick, Robert, Ed ..... Coleman
Selby, William R., E ..... Arlington, Va.
Self, Kathleen, HE ..... Lubbock
Self, Ruth, Ed ..... Lamesa
Seljos, Rudolph, E ..... Clifton
Sellers, Merle, HE ..... Rising Star
Selmon, Tony, S ..... Stamford
Settle, Mrs. Rosa A., Ed ..... Lubbock
Sewell, Stewart, A ..... Jacksboro
Shaffer, Valoris, HE ..... Friona
Sharp, Winnolee, HE ..... Vernon
Sharpless, Dorothy J., 5G ..... Lubbock
Shaw, Mrs. Juanita, G ..... Lamesa
Sheehan, Richard, S ..... Hermleigh
Shelton, Mrs. R. M., G ..... Morton
Shepperd, Geraldine, G ..... Stanton
Shepperd, Riggs, 5Ed ..... Stanton
Sheriff, Velna, Ed ..... Slaton
Shimotsu, Dorothy, HE ..... Rangerville
Shipp, Hazel, HE ..... Lubbock
Shipp, Susie, Ed ..... Lubbock
Shockley, Audrey Horton, 5Ed ..... Marathon
Shockley, Carl, 5Ed ..... Marathon
Shofner, Cleabern, B ..... Lamesa
Shofner, Orville, G ..... Levelland
Shook, Hope, HE ..... O'Donnell
Short, Sterling, E ..... Lubbock
Shotwell, James E., S ..... Littlefield
Showalter, Bert, A ..... Lubbock
Shuttlesworth, Martin, 5S ..... Sudan
Shytles, Grady, S ..... Snyder
Sides, Geraldine, HE ..... Lubbock
Sigman, Stanley, Ed ..... Earth
Simmons, Henry M., G ..... Abernathy
Simmons, Mrs. H. M., Ed ..... Abernathy
Simmons, Mrs. N. E., Ed ..... Hermleigh
Simpson, Weldon, E ..... Waialua, Hawaii
Sims, Alline, G ..... Groesbeck
Sims, Archie, 5G ..... Tahoka
Sims, Aulsie, 5G ..... Prairie Hill
Sims, Gladys, 5G ..... Lubbock
Sims, Mrs. Jonnie Katherine, Ed .... Tahoka
Sisk, Melvin, 5Ed ..... Slaton
Skeen, Genie D., Ed ..... Gail
Skeen, Lena Marie, Ed ..... Lubbock
Slack, Mrs. Lois, Ed ..... Higgins
Slaton, Mrs. Georgia Chapman, 5HE ..... Morenci, Arizona
Slay, Elaine, HE ..... Albany
Slover, Margaret, S ..... Lamesa
Slover, May, 5G ..... Lamesa
Sluder, Winnie, G ..... Olton
Smallwood, Ronald, G ..... Lubbock
Smart, V. C., E ..... Spur
Smith, Anna Belle, G ..... Bogata
Smith, Bryan, S ..... Baileyboro
Smith, B. T., S ..... Tahoka
Smith, Dale, 5G ..... McLean
Smith, Mrs. Emma Jean, Ed ..... Plainview
Smith, Mrs. Evelyn H., G ..... Lubbock
Smith, Fern, HE ..... Big Spring
Smith, H. Wayne, B ..... Springtown
Smith, James A., S ..... Lamesa
Smith, Jesse Earl, B ..... Throckmorton
Smith, LaVerne, 5HE ..... Decatur
Smith, Lee, 5Ed ..... Crosbyotn
Smith, Lola Jean, HE ..... Lubbock
Smith, Marjorie, B ..... Post
Smith, Mildred, HE ..... Ralls
Smith, Naomi, HE ..... Muleshoe
Smith, Norman, A ..... Lubbock
Smith, Paul, G ..... Muleshoe
Smith, Pearl H., G ..... Lubbock
Smith, Pleas, Ed ..... Whiteface
Smith, Mrs. P. O., G ..... Whiteface
Smith, Robert A. Jr., E ..... Howe
Smith, Ruby Nell, G ..... Brownfield
Smith, Ruth, 5Ed ..... Baileyboro
Smith, Uda Margaret, HE ..... Rule
Smith, Wayne F., B ..... Weatherford
Smitherman, Lynn A., E ..... Athens
Smoots, Dan, S ..... Fritch
Smyth, Jot Jr., 5A ..... Big Spring
Smyth, Virginia Sims, HE ..... Big Spring
Snider, J. D., S ..... Lubbock
Snider, Montez, Ed ..... Lubbock
Snively, Laurence, Ed ..... Colorado
Snoddy, Lois, 5Ed ..... Brownwood
Snow, Vena Louise, Ed ..... Lubbock
Snyder, Robert, B ..... Lubbock
Solomon, Garland, A ..... Memphis
Soules, Georgia Lee, HE ..... Groom
Southall, Oscar, 5Ed ..... Stanton
Sowell, Maurice, E ..... Lubbock
Spann, Doris, HE ..... Plainview
Sparks, Frances Wiginton, G ..... Troup
Sparks, Mrs. Mary Ann, G ..... Lubbock
Sparks, Robert, E ..... Lubbock
Speed, Nellie Katherine, G ..... Athens
Speer, Anibel, HE ..... Dickens
Speer, Lois Mae, G ..... Dickens
Spence, Jack, A ..... Lockney
Spikes, Billy, B ..... Lubbock
Spoonts, Leslie, G ..... Fort Worth
Spoonts, Marshall E ..... Fort Worth
Spratt, B. Carl, 5S ..... Hereford
Springer, Denver, S ..... Lenorah
Springer, Grover, G ..... Tarzan
Springer, Mrs. Irene, G ..... Tarzan
Springer, Mary Lois, B ..... Aspermont
Springer, Richard, S ..... Fort Worth
Spruill, Ruth Elna, G ..... Lamesa
Spykes, Alta, G ..... Hermleigh
Spykes, Virginia, 5G ..... Hermleigh
Staley, Alice, G ..... Hobbs, N. Mex.
Staley, L. M. Jr., A ..... Ringgold
Standefer, Hattie, B ..... Flomot
Standefer, Rufus W., G ..... Clifton
Stanley, Joe, E ..... Brownwood
Staples, Harvey, S ..... Floydada
Stark, Galen Page, B ..... Lubbock
Stark, Wallace R., A ..... Haskell
Starnes, Maurine, G ..... Texline
St. Clair, Elmond C., A ..... Lubbock
St. Clair, Frances, G ..... Seymour
St. Clair, Leighton, G ..... Seymour
Steele, Ira, 5B ..... Levelland
Stengel, Paul, B ..... Munday
Stennis, Hampton, G ..... Pampa
Sterrett, Elizabeth, HE ..... Abernathy
Stevens, Colvin Roy, 5Ed ..... Muleshoe
Stevens, Thelma Lee, 5G ..... Muleshoe
Stewart, Mary, Ed ..... Lubbock
Stewart, Reveau, A ..... Lewisville
Still, Augusta, HE ..... Ropesville
Still, Hamilton, Ed ..... O'Donnell
Stinebaugh, Aileen, Ed ..... Ballinger
Stinebaugh, J. D., A ..... Ballinger
Stockton, Durward B., G ..... Lubbock
Stockton, Teresa, Ed ..... Plainview
Stokes, Erma, Ed ..... Lubbock
Stone, Christine, 5B ..... Canadian
Stone, Haskell, A ..... Haskell
Story, T. J. Jr., B ..... Vernon
Strasner, Stevens, S ..... O'Donnell
Strawn, Douglas, E ..... Lubbock
Stringer, Mrs. Addie, Ed ..... Lubbock
Strother, Ann Jack, HE ..... Anna
Strother, Mable Russell, 5G ..... Levelland
Stuart, Isabel, HE ..... Mingus
Stuart, Margaret, S ..... Sterley
Stubbs, Aileen, B ..... Lubbock
Studhalter, Margaret, 5G ..... Lubbock
Sturdivant, Ford, B ..... Big Spring
Sublett, Jack, E ..... Merkel
Sudduth, Dexy, G ..... Eden
Sullivan, Margie, G ..... Morton
Sullivan, Theo, 5Ed ..... Big Spring
Surratt, Robert, S ..... Pampa
Sutton, Wm., A ..... Lubbock
Sweatman, Ann Louise, G ..... Pampa
Swinburn, W. Vance, 5Ed ..... Lakeview
Swofford, Lida, Ed ..... Richmond, Missouri
Symes, Clarence Jr., E ..... Abilene
Tadlock, Frances Elizabeth, B ..... Wilson
Talley, Norman, E ..... Lubbock
Talley, Opal, G ..... O'Donnell
Talley, W. F., 5Ed ..... Coahoma
Tanner, Mabel George, HE ..... Rule
Tarrance, Russell, B ..... Lubbock
Tate, Ernest, A ..... Lubbock
Tate, Grayson D., 5Ed ..... Lockney

Taylor, Allie, Ed ..... Plains
Taylor, Douglas, E ..... Loraine
Taylor, Garland D., A ..... Lubbock
Taylor, Georgia, 5G .... Texhoma, Oklahoma
Taylor, Glyn, 5Ed ..... Sudan
Taylor, Howard, B ..... Dermott
Taylor, Velma, Ed ..... Ballinger
Taylor, Vera, G ..... Ballinger
Taylor, Walter L., E d..... Morton
Taylor, W. Robert, Ed ..... Hermleigh
Teague, Cagle, 5Ed ..... Childress
Teague, Frankie Lou, G .....Anton
Teague, Gracie Fern, 5Ed ..... Lubbock
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Thomas, George T., E ..... Lubbock
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Thomas, Hugh, B ..... Lubbock
Thomas, Lorene, 5B ..... Electra
Thomas, Mona Ruth, HE ..... Lubbock
Thomas, Walta, G ..... Hale Center
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Thompson, Edward P. Jr., 5G .... Brownwood
Thompson, Fay, HE ..... Farwell
Thompson, Fred, E ..... Abernathy
Thompson, Gordon, 5Ed ..... Lubbock
Thompson, Johnnye Mae, Ed ..... Lubbock
Thompson, Mrs. Nina C., Ed ..... Lubbock
Thompson, Oleta Anne, 5Ed ..... Crowell
Thompson, Walter, A ..... Farwell
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Travis, Walter, 5Ed ..... Floydada
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Troxell, Catherine, G ..... Decatur
True, Lorine, Ed ..... Plainview
Truitt, Rosa Etta, Ed ..... Wellman
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Watkins, Marguerite, G ..... Seagraves
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Watson, Betty Jo, B ..... Ralls
Watson, Chancy, 5Ed ..... Grand Saline
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Weddle, Earline, HE ..... Bonham
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Wells, Arthur, 5Ed ..... Wellington
Wells, Mrs. Arthur, Ed ..... Wellington
Wells, Hazel, G ..... El Paso
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Wharton, Doris V., Ed ..... Lubbock
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White, Leo, A ..... Springlake
White, Lyndelle, 5G ..... Hale Center
Whiteley, L. D., G ..... Wheeler
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Whitis, A. M., 5Ed ..... Knox City
Whitis, Mrs. A. M., Ed ..... Knox City
Whitman, Bessie, HE ..... Thalia
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Williams, Coleman, E ..... Cisco
Williams, Edwin, A ..... Dallas
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Williams, Hardy E., 5G ..... Matador
Williams, Helen, G ..... Rochester
Williams, Mrs. Imogene, HE ..... Lubbock
Williams, Jack, E ..... Lubbock
Williams, O. O., 5G ..... Idalou
Williams, Mrs. Ora Lee, 5G ..... Olton
Williams, Percy, B .....Lubbock
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Wilson, Frank P. Jr., B ..... Amarillo
Wilson, George C., A ..... Princeton
Wilson, Mrs. James D., G ..... Lubbock
Wilson, J. D., 5Ed .....Paducah
Wilson, Mrs. J. D., G .....Lubbock
Wilson, James L., G ..... Lubbock
Wilson, Mrs. Laurette Ayers, HE .....
..... Estancia, New Mexico
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Wilson, Raymond, 5Ed ..... Lelia Lake
Wiman, Ruth, HE ..... Roscoe
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Windwehen, Amelia, Ed ..... Plainview
Windwehen, Mozelle, 5Ed ..... Plainview
Winston, Finley, E ..... Cisco
Wolf, Mina, 5HE ..... Stamford
Wolfskill, Mrs. Eula Tince, HE .... Lubbock
Woltmon, Jack, A ..... Muleshoe
Wood, Helen, Ed ..... Crosbyton
Wood, Margaret, G ..... Lubbock
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Woodward, Mary Lela, B ..... Santa Anna
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Wright, Dorothy Jane, G ..Cement, Oklahoma
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Wright, John F., B ..... Cleburne
Wright, Lucille, HE ..... Tahoka
Wright, Rena, G ..... Erick, Oklahoma
Wynn, Mrs. Alda, Ed ..... Wellington
Yarbrough, Evelyn, B ..... Littlefield
Yates, Hattie Emma, Ed ..... Lamesa
Yeakley, Vernon J., E ..... Gainesville
Young, Henry, Ed ..... Groom
Young, Idelle, Ed ..... Groom
Young, James T., E ..... Arlington
Young, Jesse L., 5G ..... Hope, New Mexico
Young, Joyce, G ..... Crane
Young, Ozora, G ..... Levelland
Young, Mrs. Will S., 5Ed ..... Bowie
Zachary, Mrs. Wilma, 5G ..... Lubbock
Zellner, Julian, E ..... Lubbock

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 their 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 therefor, 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 adaption 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 a 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 purpose 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 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) dollars 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.

INDEX

ERRATA

Page 101 Phys. 233 should read Eng. 233.

Page 207 Master of Science in Education should read Master of Education.

TEXAS TECH PRESS