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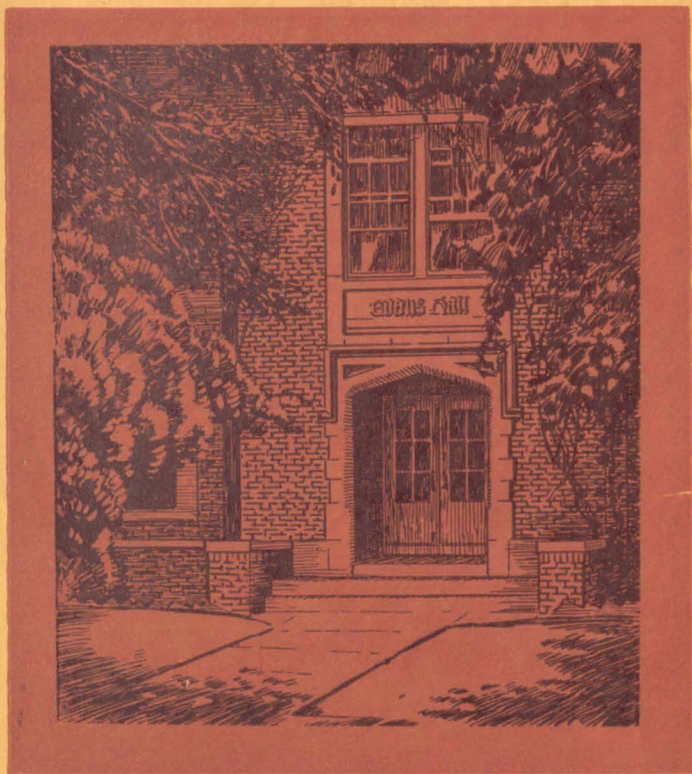
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BULLETIN OF
PRAIRIE VIEW AGRICULTURAL AND
MECHANICAL COLLEGE OF TEXAS
1953-54

Undergraduate and Graduate

1876

The Seventy-Seventh Year

1953

BULLETIN OF PRAIRIE VIEW AGRICULTURAL AND MECHANICAL COLLEGE OF TEXAS

VOL. 44

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No. 4



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1952-53

WITH ANNOUNCEMENTS FOR
1953-54

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Branch, Hempstead, Texas

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RECOGNITION

The Institution is recognized as a Class "A" College by the State Department of Education and the Southern Association of Colleges and Secondary Schools, the American Association of Colleges for Teacher Education, and the Association of Texas Colleges. Also it is approved by the American College of Surgeons.

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THE COLLEGE CALENDARS

SUMMER SESSION — 1953

June 1	Registration, First Term
June 2	Classes Begin
June 8	Registration Closes
July 11	First Term Closes
July 13	Registration, Second Term
July 14	Classes Begin
July 20	Registration Closes
August 22	Second Term Closes

REGULAR SESSION — 1953-54

September 8-12	Faculty Orientation
September 14-16	Orientation and Registration
September 17	Classes Begin
September 23	Registration Closes
November 11-12	Mid-Semester Examinations
November 26	Thanksgiving Holiday
December 19	Christmas Holidays Begin

1954

January 2	Classes Resume
January 18-22	Final Examinations
January 24	First Semester Ends
January 25	Registration, Second Semester
January 26	Second Semester, Classes Begin
February 1	Registration Closes
March 23-24	Mid-Semester Examinations
May 17-21	Final Examinations
May 22	Second Semester Closes

SUMMER SESSION — 1954

June 7	Registration, First Term
June 8	Classes Begin
June 14	Registration Closes
July 18	First Term Closes
July 19	Registration, Second Term
July 20	Classes Begin
July 26	Registration Closes
August 28	Second Term Closes

THE TEXAS AGRICULTURAL AND MECHANICAL COLLEGE SYSTEM

Composed of all colleges, agencies and services under the supervision of the Board of Directors of the Agricultural and Mechanical College of Texas, including:

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- THE TARLETON STATE COLLEGE
- THE PRAIRIE VIEW AGRICULTURAL AND MECHANICAL COLLEGE
- THE TEXAS AGRICULTURAL EXPERIMENT STATION
- THE TEXAS AGRICULTURAL EXTENSION SERVICE
- THE TEXAS FOREST SERVICE
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- THE TEXAS ENGINEERING EXTENSION SERVICE

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 CALVIN LEAKS, *Butcher*
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 LEON WASHINGTON, *Plumber*
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 WILLIAM ARTHUR, *Repairman*
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 FLOYD RAGSTON, *Painter*
 JEFFERSON ECHOLS, *Painter*
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 A. B. ALEXANDER, *Worker*
 ISAAC BENNETT, *Worker*
 ISAAC BENNETT, SR., *Truck Driver*
 WALTER BENNETT, *Truck Driver*
 CLAUD CLARK, *Foreman*
 COSIE DAVIS, *Worker*
 MORRIS JONES, *Worker*

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 OLIVER E. SMITH, M.S., *Agronomist*
 GOLLIA M. WHITEHEAD, B.A., *Secretary-Bookkeeper*

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NCO

ARTHUR L. CRUTCHFIELD, *Master Sergeant, USA, Instructor*

ROBERT B. WATSON, *Master Sergeant, USA, Instructor*

HARRISON O'NEAL, *Master Sergeant, USA, Instructor-Operations NCO*

RONALD T. CRADDOLPH, *Sergeant First Class, USA, Instructor, Clerk*

WILLOW EWING, *Sergeant First Class, USA, Instructor*

CALVIN JARMON, JR., *Sergeant First Class, USA, Instructor-Supply NCO*

ROBERT R. HILTON, *Sergeant USA, Instructor-Maintenance NCO*

OFFICERS OF INSTRUCTION, 1952-53

(Dates immediately following name indicate when persons were appointed to the faculty.)

- ALEXANDER, AARON CHARLES (1950) *Social Science*
 A.B., Prairie View A. & M. College 1947; M.A., Ohio State University, 1950.
- BAILEY, ROBERT ERNEST (1946) *Shoe Repairing*
 Certificate in Shoemaking, Prairie View College, 1922.
- BARKER, MELBA BERNARD (1951) *English*
 B.A., Southern University, 1948; M.A., University of Illinois, 1951.
- BASS, MARSHALL B., CAPT. USA (1950) *Assistant Professor of
 Military Science and Tactics*
- BELL, WENDOLYN YVONNE (1951) *Spanish*
 B.A., West Virginia State College, 1948; M.A., University of Wisconsin, 1950
- BELL, WILLIE JAMES (1949) *Printing*
 Certificate in Printing, Prairie View A. & M. College, 1947; Certificate in Mechanism of the Linotype Machine, Mergenthaler Linotype School 1951.
- BENSON, LENORA Y. (1950) *Library*
 A.B., Prairie View A. & M. College, 1950.
- BLACK, GORHAM L., JR., CAPT., INFANTRY, USA (1951) *Assistant
 Professor of Military Science and Tactics*
- BRADFORD, MOLLYE KATHRYN (1946) *Home Economics*
 B.S., Tennessee State College, 1936; M.Ed., Wayne University, 1944; Cornell University, Summer 1950 and 1951.
- BRADLEY, MABLE FRANCIS (1945) *Library*
 A.B., Paul Quinn College, 1940; M.A., Prairie View College, 1948.
- *BROOKS, GEORGE WILLIAM (1943) *Political Science*
 B.S., Indiana University, 1941; M.S., *ibid*, 1942; LL.B., LaSalle University, 1947.
- BROWN, INEZ J. (1952) *Library*
 B.S., Houston College, 1944; B.L.S., Atlanta University, 1946.
- BROWN, JONEL LEONARD (1943) *Head of Department of
 Economics and Business Administration, and
 Director of Extra-Mural Services*
 B.A., Morehouse College, 1930; M.A., University of Wisconsin, 1942; Ph.D., *ibid* 1946.
- BROWN, KEY ATLAS (1952) *Physical Education*
 B.S., Prairie View A. & M. College, 1950; Texas Southern University, 1952.
- BURDINE, DOROTHY I. (1933, 1938) *Education*
 A.B., A.M., Colorado State College of Education, 1933; University of Denver, Summers 1936, 1942, 1947.
- BURNETT, FREDDY M. (1952) *Nursing Education*
 Diploma, Prairie View A. & M. College 1951; *ibid*, 1951-52.
- BURNS, MRS. LILLIE PALEY (1941) *Home Economics*
 B.S., Prairie View College, 1934; M.S., Kansas State College, 1941; Columbia University, Summer, 1948; New York University, Summer 1950.
- BURTON, MARY LILLIAN (1952) *Business Administration*
 B.S., Lincoln University, 1947; M.A., University of Southern California, 1952.
- CAMPBELL, ANNE LUCILLE (1932) *Head, Department of English*
 A.B., Bradley Polytechnic Institute, 1930; M.A., Northwestern University, 1935; New York University, 1946-48.

* On leave

- CAVIL, JAFUS, P., 1st LT., INFANTRY, USA (1952) *Assistant Professor of Military Science and Tactics*
B.S., Prairie View A. & M. College, 1947.
- CHANEY, AURELIA A. (1952) *Education*
B.S., Howard University, 1950; M.A., New York University, 1952.
- CHARLESTON, CUBE (1953) *Printing*
Certificate, Prairie View A. & M. College, 1951; Certificate Mergenthaler Linotype School, 1953.
- CHASE, HYMAN Y., LT. COLONEL, INFANTRY, USA (1950) *Professor of Military Science and Tactics*
B.S., Howard University, 1926; M.S., *ibid.*, 1929; Ph.D., Stanford University, 1934. Graduate, Infantry Officers Advanced Course, The Infantry School, Fort Benning, Ga., 1941; Graduate, The Command and General Staff School, Fort Leavenworth, Kansas, 1942.
- CHISHOLM, FREDDIE C., 1st LT., INFANTRY, USA (1953) *Assistant Professor of Military Science and Tactics*
- CLEAVER, ARTHUR G. (1926) *Broom and Mattress Making*
Diploma, Prairie View State College, 1911; Certificate in Broom and Mattress Making, and Agriculture, 1911; Tuskegee Institute, Summer 1924.
- COIT, MRS. ERMA S. (1952) *Sociology*
B.A., Prairie View A. & M. College, 1950; M.A., Prairie View, 1952.
- COLEMAN, ZELIA S. (1947) *Home Economics*
B.S. in Ed., Bishop College, 1930; B.S. in H. E., Prairie View College, 1938; M.S., Kansas State College, 1947; University of Wisconsin, Summers 1948, 1949 and 1950. University of California, Summer 1952.
- COLLINS, SAMUEL ROBERT (1949) *Plumbing*
B.S., Prairie View A. & M. College, 1949.
- CORUTHERS, JOHN M. (1937) *Agricultural Economics*
B.S., Hampton Institute, 1925; M.S., University of Wisconsin, 1928; Ph.D., Cornell University, 1934.
- COSS, MRS. CARRIE BELL (1946) *Psychology*
A.B., Howard University, 1926; B.E., University of Cincinnati, 1927; M.A., Columbia University, 1940.
- CULBERSON, ARDELIA (1952) *Nursing Education*
Diploma in Nursing Education, Prairie View A. & M. College, 1950; *ibid.*, 1952-53.
- CULLINS, ELLA WEBB (1942) *Music*
B.A., Philander Smith College, 1940; M.A., Boston University, 1942; University of Michigan, Summers 1945 and 1947; Boston University, Summer 1951.
- DAVIS, LOIS VERNELLE (1952) *Library*
B.S., Samuel Huston College, 1951.
- DAVIS, ROBERT LEE (1949) *Agriculture*
B.S., Virginia State College; M.S., University of Wisconsin, 1949.
- DAVIS, SAMUEL WALTER (1948) *Education*
B.S., Southern Illinois Normal University, 1941; M.S., Loyola University, 1948; University of Chicago, Summers, 1948, 1949 and 1950 and 1951-52.
- DOOLEY, THOMAS P. (1934) *Dean of School of Arts and Sciences*
B.A., Morehouse College, 1927; M.S., University of Iowa, 1931; Ph.D., *ibid.*, 1939.
- DREW, JESSE MONROE (1943) *Dean of College, Director of Graduate Study*
B.S., Lincoln University, 1929; M.S., Kansas University, 1939; Ed.D., Harvard University, 1944.
- EASON, OSCAR (1952) *Automobile Mechanics*
B.S., Paul Quinn College, 1951.
- ELLIS, MRS. DELIA MAE (1947) *Home Economics*
B.S., Prairie View College 1935; M.S., 1945, Prairie View College; University of California, Summer 1946; Traphagen School of Fashion, 1951.

- ELLISON, JOSEPH EMMETT (1946) *Education and Physics*
A.B., Fisk University, 1910; M.A., University of Michigan, 1946.
- ENGRAM, LEWIS W. (1948) *Dairy Husbandry*
B.S., Hampton Institute, 1940; M.S., Michigan State College, 1946.
- EVANS, CONSTANCE P. (1952) *English*
B.S., West Virginia State College, 1934; M.A., Columbia University, 1944; University of Southern California, Summer 1946.
- FARRELL, HENRIETTA (1927) *Laundry*
B.S., Prairie View State Normal and Industrial College, 1927.
- FOREMAN, PEARL E. (1942) *Home Economics*
A.B., Howard University, 1935; B.S., Columbia University, 1938; M.A., *ibid*, 1939; University of California at Los Angeles, 1946; Columbia University, Summer 1951.
- FRY, FRANCIS G. (1929) *Engineering*
B.S. in E. E., Kansas State College, 1929.
- GALLOWAY, MRS. ELIZABETH C. MAY (1923) *Dean of School of Home Economics*
B.S., Kansas State College, Summer, 1919; M.S., *ibid*, 1933; University of Chicago, 1930; University of Minnesota, 1938-39; University of California, Berkeley, 1946; Iowa State College, 1949.
- GARNETT, LILLIAN BELL (1951) *Business Administration*
B.S., Emporia Teachers College, 1936; M.S., *ibid*, 1951.
- GARRETT, CONNALLY SHELTON (1948) *Music*
B.A., Prairie View State College, 1943; M.Mus., New England Conservatory of Music, 1948; Harvard University, Summers 1949, 1950, 1951 and 1952.
- GLENN, MILTON A. (1952) *Industrial Education*
B.S., Kansas State Teachers College, 1950.
- GLOVER, GLORIA H. (1952) *Romance Languages*
B.A., Fisk University, 1950; M.A., Oklahoma A. & M. College, 1951.
- GOINES, HERMIONE R. (1951) *Music*
B.Mus.Ed., Northwestern University, 1949.
- GOODACRE, CHRISTINE W. (1953) *Education*
B.A., Texas College, 1939; Prairie View A. & M. College, Summers 1948 and 1952 and first semester 1952-53.
- GRAHAM, FREDERICK MITCHELL (1950) *Civil Engineering*
B.S., Iowa State College, 1948; M.S., Iowa State College, 1950.
- GRAY, GRANT SYLVESTER (1950) *Physical Education*
A.B., Kentucky State College, 1946; M.A., Ohio State University, 1947; Indiana University, 1949.
- GREUX, AUSTIN E. (1951) *Architecture*
B.A., The Catholic University of America, 1950; *ibid*, 1950 and 1951.
- GREEN, CAROLYN E. (1952) *Physical Education*
B.S., Tuskegee Institute, 1952.
- HALL, JULIA KATHRYN (1948) *Home Economics*
B.S., Morgan State College, 1942; M.A., New York University, 1948; New York University, Summer 1948.
- HARDEMAN, ELBERT (1950) *English*
B.S., Bradley University, 1949; M.A., Bradley University, 1951.
- HENDERSON, DURIA L. (1941) *Cooking and Baking*
Certificate in Baking, Prairie View A. & M. College, 1940; Certificate in Radio Engineering, Prairie View A. & M. College, 1943.
- HENRY, EDGAR GEORGE (1946) *Mathematics*
B.A., Prairie View A. & M. College, 1931.
- HERNDON, DANIEL N. (1946) *Laundry*
B.S., Prairie View State College, 1939.
- HIGH, EDWARD GARFIELD (1946) *Chemistry*
A.B., 1940; A.M., 1941; Ph.D., 1949; Indiana University.
- HILL, JESSE LEON (1945) *Tailoring*
B.S., Prairie View College, 1940.

- HOLLEY, THOMAS L. (1945) *Trade and Industrial Education*
B.S., Prairie View A. & M. College, 1930; B.S., *ibid*, 1931; M.E., Colorado A. & M. College, 1947.
- HOUSTON, HASKELL S. (1942) *General Engineering*
B.S., Prairie View College, 1933; Polytechnic Institute of Brooklyn, Summer 1948.
- HUNTER, BETTY P. (1952) *Political Science*
B.A., Swarthmore College, 1948; M.A., Mount Holyoke College, 1950.
- JAMERSON, VIVIAN B. (1953) *Political Science*
B.A., Prairie View A. & M. College, 1951; University of Texas, 1951-52.
- JAMES, LEE BANNER (1949) *Industrial Education*
B.S., Lincoln University, 1939; M.S., Wayne University, 1944.
- JOHNS, EDWARD E. (1952) *Mathematics*
B.S., Samuel Huston College, 1937.
- JOHNSON, AUGUSTUS C. (1952) *Mathematics*
B.A., Tillotson College, 1950; Texas Southern University, 1951-52.
- JOHNSON, EDWARD J. (1927) *Automobile Mechanics*
Certificate in Auto Mechanics, Prairie View College, 1919.
- JOHNSON, ROBERT C. (1952) *Biology*
B.S., Indiana State Teachers College, 1952; M.S., *ibid*, 1952.
- JOHNSON, WILLIAM R. (1952) *Chemistry*
B.S., North Carolina College, 1950; M.S., University of Notre Dame, 1952.
- JOLLIE, WILLIAM JONES (1949) *Painting*
Trade Certificate, Hampton Institute, 1930; Trade Certificate, R. T. Cole Trade School, 1925.
- JONES, HERMAN T. (1947) *Principal of College Training School*
Natural Science
A.B., University of Kansas, 1931; A.M., *ibid*, 1933; *ibid* 1946.
- JONES, JULIUS BERTRAM (1951) *Music*
B.S., Music, Ithaca College, 1931.
- JONES, N. A. *Auto Mechanics and Machine Shop Practice*
1920, 1929, 1933, Kansas State Teachers College.
- JORDAN, KATHRYN NELL (1951) *Music*
B.A., Langston University, 1945; M.A., State University of Iowa, 1949.
- LAW, MARY EARLE (1948) *Library*
A.B., Prairie View A. & M. College, 1947.
- LEDBETTER, FRANKIE B. (1952) *English*
A.B., Bishop College, 1935; M.A., University of Colorado, 1952.
- LEONARD, KATHERINE ESTELLE (1951) *Library Science*
A.B., Morgan State College, 1949; M.L.S., Atlanta University, 1951.
- LEVISTER, ELZAR DYU (1950) *Music*
A.B., Knoxville College, 1947; New York College of Music, 1947; *ibid* 1949.
- LINDSAY, GLORIA JOYCE (1951) *Romance Languages*
A.B., Hunter College, 1945; A.M., Columbia University, 1946.
- LOPER, WILMOTH ALLEN (1949, 1952) *Dean of Nurses*
B.S.N., Dillard University, 1948; M.S.N.E., The Catholic University of America, 1952.
- MCADEN, EDNA P. (1951) *Library Service Education*
B.S., North Carolina College, 1944; B.S. in L.S., North Carolina College, 1948; Columbia University, Summer 1950.
- MCCREE, CAROLYN Y. P. (1951) *Education*
B.A., Shaw University, 1949; M.A., University of Illinois, 1950.
- MCCLENNAN, WALTER D. (1952) *Mathematics*
B.S., Prairie View A. & M. College, 1946; M.S., *ibid*, 1948; University of Texas, 1950-51.

- McDONALD, RITCHIE G. M. (1952) *Music*
 B. Music Educ., Howard University, 1952.
- MCKINNIS, HUGH L. (1950) *Physical Education*
 B.S., Indiana University, 1949; M.S., *ibid*, 1950.
- MCNEELY, LIGGETT (1948) *Shoe Repair*
 Certificate in Shoe Repairing, Prairie View A. & M. College, 1948.
- MARTIN, DANIEL W. (1919) *Electricity*
 B.S. Mechanic Arts, Prairie View College, 1928; Kansas State Teachers College, Summer 1933; Prairie View College, Summers 1940, 1941.
- MARTIN, EDWARD W. (1952) *Biology*
 A.B., Fisk University, 1950; M.A., Indiana University, 1952.
- MAZYCK, HAROLD E. JR. (1952) *Education*
 B.S., South Carolina State College, 1944; M.A., New York University, 1948; *ibid*, 1948, Summers 1948, 1951; Western Reserve University, Summer 1951.
- MILLER, CLEOPHAS WILTHROX (1950) *Electrical Engineering*
 B.S. in E. E., Howard University, 1950.
- MILLS, ANNIE B. (1948) *Library*
 A.B., Philander Smith College, 1931; B.S. in L. S., Atlanta University, 1948.
- MITCHELL, LUTHER J. (1950) *Radio*
 B.S., Prairie View A. & M. College, 1950.
- MITCHELL, WILLIE (1951) *Biology*
 B.S., Prairie View A. & M. College, 1949; M.S., Prairie View A. & M. College, 1951; University of Texas, Summer 1952.
- MOORE, BRADLEY GEORGE (1949) *Education*
 B.S., Alabama State Teachers College, 1936; M.A., Ohio State University, 1949; Ohio State University, 1951-52.
- MORRIS, DORIS GEORGENE (1951) *English*
 A.B., Boston University, 1949; M.A., Smith College, 1950.
- NICHOLAS, CHARLES HAWKINS (1943) *Chairman of Biology Section*
Natural Science Department
 A.B., Talladega College, 1930; M.S., University of Michigan, 1939; Columbia University, Summer, 1934; Atlanta University Workshop, Summer, 1941; Chicago University, Summer 1947, 1947-48 and Summer, 1948.
- NICKS, WILLIAM JAMES (1945) .. *Head, Department of Physical Education*
and Director of Athletics
 A.B., Morris Brown College, 1928; M.A., Columbia University, 1941.
- NIX, JAMES E. (1952) *Political Science*
 B.S., Morehouse College, 1938; M.A., Syracuse University, 1952; *ibid*, 1950-52.
- NOEL, MARGARET ANNABELL (1951) *Library*
 B.A., North Carolina College, 1945; B.S.L.S., North Carolina College, 1951.
- NORRIS, ERNEST MISHEAL (1927-28, 1937-45, 1946) *Agriculture*
 B.S., Prairie View State College, 1927; M.S., Cornell University, 1931; Ph.D., *ibid* 1934.
- O'BANION, ELMER E. (1939) *Head, Department of Natural Sciences*
 A.B., Indiana University, 1934; M.A., 1935; Ph.D., *ibid*, 1942.
- OWENS, EMIEL W. (1948, 1952) *Agriculture*
 B.S., Prairie View A. & M. College, 1947; M.S., *ibid*, 1948; Ph.D., Ohio State University, 1952.
- PENDERGRAFF, LOIS B. (1951) *Home Economics*
 B.S., Prairie View College, 1931; M.S., *ibid*, 1943.
- PHELPS, DOROTHY BELLE (1951) *Physical Education*
 B.S., Tennessee A. & I. State College, 1944; M.A., Teachers College, Columbia University, 1948.
- PHILLIP, LEE C. (1932) *Social Science, College Chaplain*
 B.S., Prairie View State College, 1928; B.D., Howard University, 1931; Union Theological Seminary, 1931-32; M.A., Howard University, 1939.

- *PHILLIPS, JAMES EDWARD (1949) *Social Science*
B.S., Indiana University, 1947; M.A., Columbia University, 1949.
- PIERSON, HELEN GERALDINE (1949) *Music*
B.S., Kansas University, 1945; Kansas University, 1945-46; Julliard School of Music 1948-49.
- POINDEXTER, ALFRED N. (1945) *Veterinary Medicine*
D.V.M., Kansas State College, 1945.
- POOLE, GRAFTON C., CAPT., INFANTRY USA (1953) *Assistant Professor of Military Science and Tactics*
- PORTER, THADDEUS GILMORE (1949) *Carpentry*
- POWELL, JOHN R. (1951) *Agricultural Education*
B.S., Prairie View A. & M. College, 1937; M.S., Prairie View A. & M. College, 1948.
- PRATT, EMMA THERESA MAE (1943, 1946) *Home Economics*
B.S., Prairie View College, 1935; M.F.A., University of Colorado, 1946.
- PRESTON, ANNIE C. (1933-44, 1945) *Education*
B.S., Virginia State College, 1931; M.A., Columbia University, 1932, 1938-39; Denver University, Summer 1946.
- PRICE, TOMMIE E. (1952) *Art Education*
B.S., Wilberforce University, 1945; Kansas State Teachers College, Summer 1946.
- RANDALL, ALBERT W. (1923) *Head, Department of Mathematics*
B.S., Alcorn A. & M. College, 1916; A.M., University of Colorado, 1929; Summers, 1937, 1940.
- RANDALL, JAMES A. (1948) *Sociology*
B.A., University of Michigan, 1947; M.A., *ibid*, 1949; Summer, 1951, 1951-52, Summer 1952.
- RAWLS, JOHN CADMUS (1950) *Economics*
B.S., A. & T. College, 1948; M.A., University of Iowa, 1950.
- RAYFORD, ROBERT WILLIE (1950) *Dry Cleaning*
B.S., Prairie View A. & M. College, 1947.
- *REEVES, GEORGE W. (1930) *Education*
A.B., Atlanta University, 1924; A.M., University of Michigan, 1932; *ibid*, Summer, 1938; North Carolina College for Negroes Workshop, Summer, 1942; University of Chicago, Summer, 1945.
- *RILEY, GEORGE EMERSON (1950) *Biology*
A.B., Syracuse University, 1949; M.A., Oberlin College, 1950.
- ROBINSON, WILLIAM H. (1951) *English*
B.A., New York University, 1951; New York University, Summer 1951.
- SARAZEN, JOHN J., CAPT., INFANTRY, USA (1952) *Assistant Professor of Military Science and Tactics*
Advanced Course, Infantry School, Fort Benning, 1952.
- SAXTON, MRS. CLEMMIE N. (1952) *Dietetics*
B.S., Tuskegee Institute, 1952.
- SAMUEL, WILLIAM A. (1945) *Chemistry*
B.S., Johnson C. Smith University, 1933; M.S., Atlanta University, 1940; *ibid*, Summer 1942, 1943; Ohio State University, 1948-49. and Summer, 1949.
- SHEEN, EDWIN DRUMMOND (1943) *English*
A.B., James Milikin University, 1925; M.A., University of Illinois, 1927; University of Chicago, 1929, 1936-37, Summer 1938, Summer 1942, 1946-47; Northwestern University, Summers 1930-31; University of Illinois, 1947-48, Summer 1948.
- *SINGLETERY, JAMES DANIEL (1950) *Education*
B.S., New York State College for Teachers, 1944; A.M., The University of Chicago, 1946; Ph.D., The University of Chicago, 1950.
- SMITH, GEORGE L. (1931) *Dean, School of Agriculture*
B.S., Hampton Institute, 1929; M.S., Kansas State College, 1941; *ibid*, 1940-41.
- SMITH, HUBERT D. (1952) *English*
B.A., Texas Southern University, 1948; M.A., New York University, 1952.

- SMITH, LEVESTER L. (1948) *Laboratory Supervisor
Natural Science Department*
B.S., Prairie View A. & M. College, 1948.
- SMITH, MRS. LUCILLE B. (1953) *Cooking and Baking
Certificate, Prairie View A. & M. College, 1939; Colorado State College, Summer
1939.*
- SMITH, OLIVER EMMIT (1949) *Agriculture*
B.S., Prairie View A. & M. College, 1947; M.S., University of Nebraska, 1949.
- SOLOMON, THOMAS R. (1939) *Head, Department of History
Philosophy and Political Science*
A.B., Wayne University, 1929; M.S., *ibid*, 1933; Ph.D., University of Michigan, 1939.
- SPALDING, SYDNEY W. (1944) *English*
A.B., Eureka College, 1929; A.M., University of Illinois, 1930; University of Michi-
gan, 1933-34, 1937-39.
- SPRAGGINS, IGAL E. (1951) *Social Science*
B.S., Wilberforce University, 1941; M.Litt., University of Pittsburgh, 1947.
- STEIN, ANDREW MARK (1951) *Chemistry*
A.B., Texas College, 1940; M.S., State University of Iowa, 1942.
- STICKNEY, WILLIAM H. (1945) *Printing*
Diploma and Certificate in Printing, Alabama Agricultural and Mechanical Institute,
1924; Mergenthaler Linotype School, Summer, 1925; Colorado State College, Sum-
mer, 1931; Carnegie Institute of Technology, Summer, 1933; *ibid*, year 1934-35.
- SWINDALL, WELLINGTON D. (1951) *Economics and
Business Administration*
B.S., Bluefield State College, 1949; M.A., Kent State University, 1950.
- TAYLOR, JIMMIZINE B. (1945) *Library*
B.A., Arkansas State College, 1940; B.S.L.S., Atlanta University, 1943.
- THOMAS, ALVIN IGNACE (1949) *Director of
Industrial Education Division*
B.S., Kansas State Teachers College, 1948; M.S., *ibid*, 1949; Pennsylvania State
College, Summer 1951; Ohio State University, 1951-52.
- THOMAS, JESSIE IRVIN JR. (1949) *Health Education*
B.S., Prairie View A. & M. College, 1948; M.S., North Carolina College, 1949.
- THOMAS, OSCAR J. (1938) *Director, Interscholastic League, and
Placement Bureau*
B.S., Prairie View State College, 1926; M.S., Prairie View College, 1945; Cornell
University, Summers 1946 and 1948.
- THOMAS, RICHARD GARLAND (1950) *Physics*
B.S., Hampton Institute, 1943; M.A., Columbia University, 1950.
- THOMSON, MATTIE A. (1952) *Romance Languages*
B.S., Teachers College of the City of Boston, 1938; Ed.M., *ibid*, 1939; Universidad
Nacional de Mexico, Summers 1944 and 1946, and 1946-47; Boston University, Sum-
mer 1951.
- TOLSON, MELVIN BEAUNORUS JR. (1946) *Romance Languages*
B.S., Wiley College, 1942; B.D., Gammon Theological Seminary, 1946; M.A., Okla-
homa A. & M. College, 1950.
- TORRY, CLARA E. (1941) *Cooking and Baking*
B.S., Tennessee State College, 1939; Certificate, Hughes Business College, 1941.
- VENTER, RUFUS (1952) *Library*
A.B., Prairie View A. & M. College, 1950; M.A., *ibid*, 1951.
- VON CHARLTON, RUDOLPH EVERETT (1942) ... *Head, Department of Music*
B.S. in Music, Hampton Institute, 1931; M.Mus., University of Michigan, 1939;
Ph.D., Columbia University, 1948.
- WARD, CLIFFORD LOUDIN (1951) *Biology*
B.S., Ohio State University, 1935; M.S., Ohio State University, 1936.

- WASHINGTON, HAROLD G. (1947) *Dry Cleaning*
Certificate, C. C. Hubbard School of Dry Cleaning.
- WEAVER, LEROY C. (1952) *Art Education*
B.A., Morehouse College, 1943; B.F.A., Art Institute of Chicago, 1947.
- WEIR, CHARLES F. (1953) *Music*
B.S., Florida A. & M. College, 1953.
- WELLS, VERNON (1950) *Physical Education*
B.S., Tillotson College, 1946; M.S. University of Southern California, 1948.
- WILLIAMS, ALBERT O. (1952) *Chemistry*
B.S., Houston College, 1947; B.S., Tennessee State University, 1951; M.S., *ibid*, 1952.
- WILLIAMS, JOHN CALVIN (1940) *Agriculture and
Superintendent of Agricultural Experiment Station*
B.S., Hampton Institute, 1932; M.S., Kansas State College, 1940; *ibid*, 1948-49 and Summer 1949.
- WILLIAMS, LLOYD K. (1949) *Mathematics*
B.A., University of California, 1948; M.A., *ibid*, 1949; *ibid*, 1951-52.
- WILSON, CLAUD L. (1925) *Dean, School of Engineering*
B.S., Mechanical Engineering, Kansas State College, 1925; M.E., *ibid*, 1929; M.S., *ibid*, 1933.
- WILSON, JESSE M. (1931) *Tailoring*
Certificate in Tailoring, Tuskegee Institute, 1927; Certificate in Designing, Master Designer's School of Designing, 1934; B.S., Kansas State Teachers College, 1941.
- WOODS, JOHNNIE J. (1945) *Agriculture*
B.S., Prairie View State College, 1938; Prairie View State College, 1944; M.S., Kansas State College, 1948.
- WOOLFOLK, GEORGE RUBLE (1943) *History*
B.A., Louisville Municipal College, 1937; M.A., Ohio State University, 1938; Ph.D., University of Wisconsin, 1947.
- WORK, WARREN LEROY (1951) *Engineering*
B.S., Kansas State Teachers College, 1951.
- WRENN, JAMES L. (1952) *Machine Shop*
B.S., Kansas State College, 1951; *ibid*, 1951-52.
- YARBROUGH, DEAN SCRUGGS (1949) *Head, Department of Sociology*
B.A., Miles College, 1923; M.H., Springfield College, 1925; M.A., University of Pittsburgh, 1926; Ph.D., *ibid*, 1934.

OTHER OFFICERS AND ASSISTANTS

- NATHANIEL BEAL, *Night Watchman*
- GRACE ETTER, *Secretary, Office of Extra-Mural Services*
- ERNEST KIMBLE, *Manager, College Barber Shop*
- GRACIE MCLEAN, *Secretary to Dean of School of Arts and Sciences*
- LENORA MCLEAN, *Secretary to Dean of School of Home Economics*
- LEE E. PERKINS, M.A., *Manager, College Recreation Center*
- OSCAR PIPKINS, *Night Watchman*
- MRS. VALERIE A. STAFFORD, B.A., *Secretary, School of Agriculture*
- SANDERS STREDICK, *Night Watchman*
- LULA TURMAN, *Certificate, School of Agriculture*
- MAYE RUTH WILLIAMS, B.S., *Assistant to Manager of Recreation Center*
- PEARL ETTA WILLIAMS, *Secretary, Division of Industrial Education*
- VEIDA N. WILLIAMSON, *Secretary, Division of Industrial Education*

GRADUATE FELLOWS FOR THE YEAR 1952-53

- LIMONE C. COLLINS, Prairie View A. & M. College, 1947
 CHRISTINE W. GOODACRE, Texas College, 1939
 HEZEKIAH HARNESBERRY, Prairie View A. & M. College, 1928
 RAYMOND E. HENDERSON, Prairie View A. & M. College, 1948
 VAN BERNARD SHAW HENDERSON, Virginia State College, 1948
 WILLIS C. MCPHAUL, Prairie View A. & M. College, 1947
 EOLUS V. RETTIG, Wilberforce University, 1933
 CAROLYN J. SADBERRY, Prairie View A. & M. College, 1951
 HELEN WATKINS, Prairie View A. & M. College, 1950

COOPERATIVE EXTENSION SERVICE

Prairie View A. & M. College has as one of its divisions, Agricultural Extension Service. The headquarters of this division is located on the campus of the college. At the present time 101 county agents are working in 61 counties. The function of this department is to give agricultural and home making information to rural people who are not attending college and to encourage application of this information.

HEADQUARTERS STAFF

- WILLIAM C. DAVID *State Leader*
 Graduate in Agriculture, Prairie View State Normal and Industrial College, 1917;
 B.S., Howard University, 1924; Prairie View State College, Summers 1939, 1941.
- MARSHALL V. BROWN *Administrative Assistant*
 B.S. in Agriculture, 1931; Prairie View State College, Summers 1941, 1942; *ibid*,
 1942-43, and 1952.
- MRS. PAULINE R. BROWN *Supervisor of Negro Home Demonstration
 Work and District Home Demonstration Agent*
 B.S. in Home Economics, Prairie View State College, 1931; M.S., *ibid*, 1949.
- HENRY S. ESTELLE *District Agent*
 B.S. in Agriculture, Prairie View State College, 1932; *ibid*, 1938-39, 1939-40, 1942-43,
 Summer 1939, and 1941-42.
- MYRTLE E. GARRETT *District Agent*
 B.S. in Home Economics, Prairie View State College, 1938. (Requirements completed
 for M.S. except thesis).
- J. V. SMITH *District Agent*
 Graduate in Agriculture, Prairie View State College, 1912; *ibid*, Summers, 1929,
 1937, 1939, 1940.
- PARRYE LEE WASHINGTON *Extension Secretary*
 B.A., Tillotson College, 1947; Summers, Texas College, 1949, 1950.
- JOHNNIE BRENDONLY CUNNINGHAM *Extension Secretary*
 Certificate, People's Business College, 1952
- MAURICE CARTER *Extension Secretary*

ALUMNI OFFICERS

OFFICERS OF THE ASSOCIATION

EXECUTIVE COMMITTEE

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Chairman
 I. T. HUNTER, '26, Tyler
 MRS. LULA WHITE, '28, Houston
 T. L. HOLLEY, '30, San Antonio
 MRS. MABLE KILPATRICK, '31,
 Houston
 LEE G. JOLLEY, '22, Austin
 RAY HARRISON, '25, Goliad

The Alumni and Ex-students Association is functioning under a constitution which was revised in May 1950 and a state Charter issued in November 1950. The association was organized in 1901 and includes in its membership both graduates and former students. It is a member of the National Alumni Association, and the American Alumni Council. The voting privilege is restricted to those who have paid their dues and are classified as active members. Two meetings are held each year—one in the fall and one the day before commencement in the spring. Election of officers is held in the fall by ballot at the homecoming meeting. The association has as its main objective a program of cooperation with the College Administration for the constant improvement of Prairie View A. & M. College.

The Association sponsors, and has encouraged, the organization of local clubs throughout the state and in many of the large cities throughout the country. The office of the Alumni Association located in the Administration Building acts as a central clearing agency for all alumni business.

GENERAL INFORMATION

LOCATION

Prairie View A. & M. College is located in Waller County, forty-six miles northwest of Houston. Daily trains and buses discharge passengers at the Prairie View Station. Taxi service is available to and from the station.

PURPOSE

Three separate and distinct functions of Prairie View A. & M. College are clearly set forth in State and Federal acts for its establishment and support.

Firstly, it is a normal school for the preparation and training of colored teachers.

Secondly, it is a four-year college offering liberal arts and scientific curricula.

Thirdly, it is the Negro Land Grant College of Texas providing opportunities for training in Agriculture, Home Economics, Engineering and related branches of learning.

In addition, the institution offers training in health education so that it may give to the state professionally trained nurses and provide opportunities for observation and practice to newly graduated students of medical colleges.

Prairie View A. & M. College attempts to serve the colored citizens of Texas at the points of their greatest needs and endeavors to bring the students' training into closer relationship with life's occupations.

The central theme of the philosophy of the institution is that education must have the objective of making a worthwhile life and a respectable living.

INSTRUCTIONAL ORGANIZATION

The institution is organized for instruction into seven major divisions as follows:

- THE SCHOOL OF AGRICULTURE
- THE SCHOOL OF ARTS AND SCIENCES
- THE SCHOOL OF HOME ECONOMICS
- THE SCHOOL OF ENGINEERING
- THE DIVISION OF INDUSTRIAL EDUCATION
- THE DIVISION OF NURSING EDUCATION
- THE GRADUATE SCHOOL

HISTORY

The Fifteenth Legislature of the State of Texas met in the year 1876. One of the acts of that Legislature provided for the establishment of "An Agricultural and Mechanical College" for Negro citizens to be located in Waller County. L. M. Minor was elected first teacher of the school (Alta Vista Agricultural College). He served in this capacity from 1878 to 1879. In the last year of his principalship a legislative act provided for reorganization of the college and made funds available for the training of public school teachers therein. The second principal, E. H. Anderson, served from 1879 to 1884; and L. C. Anderson, the third principal, held the position for the next twelve years. The gray stone Administration Building, whose architectural design was widely admired, was erected in 1889, and the Old Agricultural Building was erected in 1890.

For the next nineteen years, E. L. Blackshear served "Prairie View Normal" as principal. During his administration, significant growth was made in the curriculum and the plant. In 1899 the name became "Prairie View State Normal and Industrial College," and the new name indicated the enlargement of the curriculum. A four-year college course was authorized by the State Legislature in session in 1901. Among additions to the plant were two dormitories for men, Foster Hall (1909) and Luckie Hall (1909); a dormitory for women, Crawford Hall (1912); and a combination Auditorium-Dining Hall building (1911).

I. M. Terrell, the fifth principal, held the position during the war years 1915-1918. Despite the world conflict, the school plant expanded widely to accommodate mechanic and household arts; a Household Arts building, the Power and Ice Plant, and the Laundry were erected in 1916; and in 1918 Spence Building for the Division of Agriculture was erected.

The sixth principal of Prairie View was Dr. J. G. Osborne, whose tenure lasted from 1918 to 1925. Six buildings were added to the College in 1924 and 1925. The Veterinary Hospital, the Science Building, the College Exchange, the Elementary Training School, a Home Economics Practice Cottage, and a Music Conservatory.

In 1926 W. R. Banks became the seventh principal of Prairie View. He served until August 31, 1947, at which time he became Principal Emeritus. He held the position longer than any of his predecessors. Prairie View developed along several lines in the past decade and a half. The physical plant doubled its size by adding six buildings valued at more than \$100,000.00 each. The Dining Hall and the Hospital, three apartment houses for men teachers, three dormitories for women, a green house, an incubator house, a classroom building, a new Auditorium-Gymnasium, a new Mechanic Arts Building, and over sixty cottages for college families were additions to the physical plant.

One of the significant studies of the period was an exhaustive examination of the objectives and purposes of Prairie View in 1933-34. Out of this study emerged Principal Banks' most often quoted statement: "Prairie View College must serve the State of Texas at the points of her greatest needs." The establishment of the Prairie View Conference of Education in 1931 is an important event in the history of the College. In the years that the Conference has met, Prairie View has been host to educators, ministers, doctors, business men and women, housewives, social workers, and farmers.

In the establishment of the Division of Graduate Study in 1937 Prairie View College added another page to its expanding history.

In 1936 the first buildings were built to house the N.Y.A. resident center, and a new chapter in Vocational Training for youth was opened. The project was enlarged and made a training center for Negro men in critical occupations for support of the war effort. The men filled positions as welders, mechanics, pipe fitters, machine operators, and moulders in ship yards, foundries, and machine shops all over the nation. The project terminated in July 1943. The facilities are now being used for vocational trade courses.

In July 1943, a training unit of the Army Specialized Training Program was established with a maximum strength of 200 trainees enrolled in BE-1 Curriculum.

In 1943, when the Forty-eighth Legislature met in January, it appropriated \$160,000.00 for the erection of a Library Build-

ing. This amount was supplemented by \$20,000.00 for equipment and books.

The Forty-ninth Legislature (1947) passed the bill making Prairie View a university to offer, as the need arises, all courses offered at the University of Texas.

Mr. Banks was succeeded on September 1, 1947, by Dr. E. B. Evans, who became the eighth principal of Prairie View.

The Fiftieth Legislature of the State of Texas changed the name of the school from Prairie View University to Prairie View Agricultural and Mechanical College of Texas. The Governor signed this Legislation February 27, 1947. It provides for the offering of courses in agriculture, the mechanic arts, engineering, and the natural sciences connected therewith, together with any other courses authorized at Prairie View at the time of the passage of this act all of which shall be equivalent to those offered at the Agricultural and Mechanical College of Texas.

In March 1947 the old Academic Building which housed the principal administrative offices was completely destroyed by fire. The Fiftieth Texas Legislature which was then in session made an emergency appropriation of \$300,000.00 for the erection of the present Administration Building which was completed in March of 1949.

The title of the Principal was changed to Dean by the Board of Directors and became effective during the 1947-1948 school year. On September 1, 1948, the title of Dean was changed to President and on December 3, 1948, E. B. Evans, the eighth Principal, was inaugurated as the first President of Prairie View Agricultural and Mechanical College of Texas.

The divisions of Agriculture, Arts and Sciences, Home Economics and Mechanic Arts were changed to School of Agriculture, School of Arts and Sciences, School of Home Economics, and School of Engineering effective September 1, 1950. The Directors of the respective schools were named Deans to become effective at the same time.

A new women's dormitory was completed in September 1950 at a cost of \$350,000.00. This dormitory was named for the late

Dean of Women, Miss M. E. Suarez. It houses 247 seniors and has facilities for recreational and social entertainment. A similar building, J. M. Alexander, was completed for the men in 1952. The E. B. Evans Animal Industries Building was completed in 1951, and the Engineering Building in 1952.

THE W. R. BANKS LIBRARY

The library, named in honor of the former chief executive, is located between Evans and Luckie halls, just north of the new Administration Building. It has a book capacity of some 100,000 volumes and study space for some 600 students simultaneously. Its beautiful, convenient, and comfortable study places include the Reserves Reading Room, Reference Service Room, and Graduate Study Room. Conference Rooms are available on the basement floor for group study. The artistic tastes of students are fostered in Exposition Hall and the Art Room.

The various collections consist of well selected books, periodicals, newspapers, micro-films, films, records, and much other study materials for reference, collateral, cultural, and recreational reading and for research purposes.

To secure the greatest benefit from the services made available to readers in the library each reader must become acquainted with the library rules and regulations and should seek timely guidance from the qualified members of the library staff.

To facilitate effective use of the library the staff of the Research Service Center offers an orientation course in library methods to freshmen and new students during the first six or eight weeks of each new school year. All who fall within these two groups are urged to cooperate fully in this undertaking.

EXTRA-CURRICULAR ACTIVITIES

RELIGIOUS INFLUENCES

While no particular denominational influence is exerted at Prairie View A. & M. College, the authorities of the institution are thoroughly committed to the belief that religious training benefits the student. A chaplain has charge of the religious

activities which include Sunday School, Morning Worship, and Vesper Services.

The Young Men's Christian Association and the Young Women's Christian Association supply, in a large measure, spiritual and moral guidance to the men and women students.

STUDENT ORGANIZATIONS

Sixty student organizations are in operation on the campus. They are: Home Town Clubs (where ten or more students are from the same town); Departmental or Divisional Clubs; New Farmers of America, New Home Makers of Texas, Industrial Education Club, Spanish-French Club, Scientific Society (Beta Pi Chi), Graduate Students Club, Business Administration and Social Science Club, History, Political Science and Philosophy Club; International Relations Club; Charles Gilpin Dramatic Club; Religious: Y.M.C.A., Y.W.C.A., Sunday School, Usher Board, Catholic Club. Dormitory Clubs: E. B. Evans Adelphian Society.

ATHLETICS

The Department of Athletics sponsors the following major varsity sports for men: football, basketball, track, tennis and baseball. The varsity program for women includes basketball, track and tennis.

The intramural sports program, conducted for all students, includes boxing, football, basketball, baseball, tennis, track, softball and volley ball. Each student is expected to participate in at least one intramural sport.

Athletes from Prairie View have been competitors in national and international athletic events.

Prairie View A. & M. College is a member of the Southwestern Athletic Conference.

AWARDS AND PRIZES

Prizes and awards are made for accomplishments in various fields of endeavor throughout the College. They are sometimes

monetary in nature and sometimes in the form of keys, cups, pins, or insignia. A short description of them is given below.

HARRISON-VALIEN SCHOLARSHIP PRIZE. A cash award presented to the graduating senior who has maintained the highest scholastic average over the four-year period.

L. O. JONES PRIZE. An award presented each year to the outstanding student in drafting.

PRAIRIE VIEW HOSPITAL STAFF AWARD. An award presented to the best all-round student of Junior Classification in the Division of Nursing Education.

T. K. LAWLESS AWARD. A cash award to the graduating senior who during four years at Prairie View A. & M. College, has made the most outstanding contributions to the institution.

ALEXANDER SUNDAY SCHOOL AWARD. A cash award of \$50.00 for tuition to the student who, during the school year, has made an outstanding or noteworthy contribution to the Sunday School program. The student should have at least a satisfactory grade point average and be in need of financial assistance.

VOCATIONAL REHABILITATION

The Texas Education Agency, through the Vocational Rehabilitation Division, offers assistance for tuition to students who have certain physical disabilities, provided the vocational objective selected by the disabled person has been approved by a representative of the Division. Application for Vocational Rehabilitation assistance should be made to the nearest rehabilitation officer or to the Director of Vocational Rehabilitation, 302 Walton Building, Austin, Texas.

LOAN FUNDS

Prairie View A. & M. College has five loan funds available to students:

1. The Hogg Memorial Loan Fund of \$25,000.00 was given to Prairie View by the late W. C. Hogg in the year of 1936. The interest from this fund is available for loans to students. At present the amount available for loans is in excess of \$5,000.00.
2. The Abner Davis Memorial Loan Fund was established in 1937 by the students at Prairie View in memory of Abner Davis, who died in 1930 from injuries received in a football game between Prairie View College and Texas College. The fund has grown each year from the proceeds of the Miss Prairie View contest. At present \$3,000.00 are available for loans to students.

3. The Church Banks Loan Fund was established in 1938 by the students who were taking vocational agriculture under Church Banks at the time of his accidental death. This loan is available to seniors in Agriculture. The amount available for loans is \$136.00.
4. The Class of 1927 left a loan fund of \$53.15.
5. The Prairie View Club of Los Angeles, California, donated \$52.50 for student loans.

Students desiring loans should make inquiries at the Fiscal Office and the Director of Student Life Office. In all cases loans are made with the indorsement of some member of the college staff.

THE MARY GIBBS JONES AND JESSE H. JONES SCHOLARSHIP PRIZES

Mr. and Mrs. Jesse H. Jones of Houston, Texas, made available to Prairie View \$25,000.00 for a scholarship fund in Home Economics and \$25,000.00 for a scholarship fund in Agriculture. Students who are selected receive scholarships of approximately \$250.00 per year. Twenty such awards are scheduled to be made annually until 1956. They are divided equally between women and men in Home Economics and Agriculture respectively. The fund is administered by the Houston Endowment Inc., of Houston, Texas.

Mr. and Mrs. Jesse H. Jones of Houston, Texas, have also made available \$25,000.00 for Nursing Education Scholarships. This Scholarship Fund is known as the A. Jeannette Jones Scholarship Fund.

All inquiries and application for these scholarships should be addressed to the Chairman of the Scholarship Committee, Prairie View A. & M. College, Prairie View, Texas.

STATE OF TEXAS SCHOLARSHIPS

The State of Texas provides a scholarship for the ranking student of each one of the four-year accredited high schools in Texas for the period immediately following the date of

graduation. The scholarship will apply on tuition to the amount of \$25.00 per semester. The Committee on Scholarships may terminate, at the beginning of the second semester, the scholarship of a student who, without warrant, fails to maintain a satisfactory scholastic record.

High school graduates seeking these scholarships should apply through their high school principals.

STATE SCHOLARSHIPS

The State of Texas exempts citizens of Texas who are high school graduates of the State orphanages of Texas from all required fees, including fees for correspondence courses. Applicants should request this exemption of the Registrar.

SCHOLARSHIPS IN NURSING

The State of Texas provides a stipend for each student in the Division of Nursing. This monthly stipend covers the major cost of the student's maintenance.

In addition to the State stipend, the A. Jeanette Jones Scholarship Fund is made available to a selected number of students in the Collegiate program. Recipients of the scholarship are given tuition and activity fee for the two semesters.

The College reserves the right to recommend that either the stipend or the scholarship, or both be denied the student after the first semester if the student has not maintained at least a "C" average.

REGULATIONS

DISCIPLINE AND GOVERNMENT

All students reporting to the institution for registration are subject to the disciplinary rules and regulations of the institution upon date of arrival on the campus.

The College compels no student to enroll nor to remain who finds that he cannot meet its academic requirements cheerfully. A student who cannot meet the requirements of the College will be asked to withdraw.

Any student who makes false pretense as to his or her marital status is subject to immediate suspension for an indefinite time. This applies to any person who marries secretly while enrolled as a student or who was secretly married at the time of enrollment.

Day students are defined as those students who do not live in the College dormitory and who do not eat in the student dining hall. No student will be permitted to enroll as a day student except that:

1. His permanent residence is within commuting distance of the College.
2. All spaces in the College dormitories have been filled.
3. The individual is married and plans to live with his family within a commuting distance.

Any student, who is employed in an institutional department where meals are served regularly or where prepared food is sold, will not be permitted to enroll as a day student or roomer.

Students wishing to serve as agents for business firms or to operate a business for themselves are required to secure permission from the Director of Student Life.

When the administration finds that a student cannot adjust himself to the life of the College, and when the student's conduct appears to be unsatisfactory, the officers of the College may request his withdrawal.

The continuance of each student upon the rolls of the College, the receipt by him of academic credits, his graduation or the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the College. The disciplinary authority of the College is vested in the President. It is his prerogative to act alone or delegate his authority to other personnel of the College.

AUTOMOBILE REGULATIONS

No student shall have in his possession any motor vehicle kept on or near the campus or in any adjacent town without the prior approval and permission of the Administrative Head of the College. Violation of this regulation subjects the student to immediate dismissal from the institution.

EXTENSION COURSES

Extension Courses Fee—\$5.00 per semester hour
for undergraduate work; \$10.00 per semester
hour for graduate work

CORRESPONDENCE COURSES FEE

2 semester hours	\$ 15.00
3 semester hours	\$ 22.00
4 semester hours	\$ 29.00

LABORATORY FEES

PER COURSE, PER SEMESTER OR TERM

Foods	\$ 2.00
Biology	\$ 2.00
Chemistry	\$ 2.00

COMMERCIAL FEES

Shorthand Fee, per semester or term	\$ 4.50
Typing Fee per semester or term	\$ 4.50

STUDENT ACTIVITIES FEE (Optional)

Student Activities Fee, per semester	\$ 5.00
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MEDICAL SERVICE FEE

Student Health Fee, per semester	\$ 5.00
per term	\$ 2.00

MUSIC FEES

Regular Session

Piano or voice (2 lessons per week) per semester	\$ 12.00
Organ, per month	\$ 5.00
Other instruments, same as piano	

Summer Session

Piano or voice per term	\$ 12.00
Organ per term	\$ 7.50

R.O.T.C. UNIFORM HANDLING FEE

Regular Session	\$ 7.00
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MAINTENANCE FEE

Regular Session

Room rent, board and laundry per month	\$ 34.75
(Room rent \$8.00, board \$23.75, laundry \$3.00)	

Summer Session

Room rent, board and laundry, per term of 6 weeks	\$ 58.45
(Room rent \$11.20, board \$42.70, laundry \$4.55)	

Graduate students only—room rent for Summer Session per term of six weeks	\$15.75
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Roomers only pay \$10.00 per month for room and laundry

Room Key Deposit, returnable\$ 1.00

REFUNDS

For all Colleges of Texas Agricultural and Mechanical College System

Any student withdrawing officially (a) during the first week of class work in a semester will receive a refund of four-fifths of the matriculation fee; (b) during the second week of class work, three-fifths; (c) during the third week of class work, two-fifths; (d) during the fourth week of class work, one-fifth; (e) after the fourth week of class work, nothing; during the first week of class work in a summer term, one-half; after the first week of class work in a summer term, nothing. No refunds will be made until ten days have elapsed from the time the fees were paid. Refunds of the matriculation fee for the Veterans Administration and other U. S. Government agencies shall be as follows:

For students withdrawing within one week from date of enrollment	80%
Between one and two weeks from date of enrollment	80%
Between two and three weeks from date of enrollment	60%
Between three and four weeks from date of enrollment	40%
Between four and five weeks from date of enrollment	20%
After the fifth week from date of enrollment	None

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

Except as aforesaid, charges for board, laundry and room rent will be refunded pro rata in case of withdrawal during a semester.

Any student withdrawing officially (a) during the first week of class work in a semester will receive a refund of four-fifths of the Medical Service fee; (b) during the second week of class work, three-fifths; (c) during the third week of class work, two-fifths; (d) during the fourth week of class work, one-fifth, except as stated below; (e) after the fourth week of class work, nothing. No refund will be made within ten days after the fees were paid.

Students withdrawing during the first week of either semester will receive a 100% refund of the Student Activities Fee for the semester. No refund will be made to students who withdraw after the first week.

No refund of the ROTC Uniform Handling Fee will be made after the uniform or any part thereof has been issued.

No refund of laboratory fees, music fees, shorthand or other special course fees will be made after student attends the class.

Key deposits will be refunded if the student returns his key to the Dean's Office within three days after the close of the period for which fees have been paid. If a student withdraws from school, his room key must be returned to the Dean's Office within three days after date of withdrawal for any cause.

EXPENSES AND FEES FOR 1953-54

(These fees are subject to change without notice)

FIRST SEMESTER

	Men	Women	¹ World War II Veterans
Tuition (Non residents pay \$150) . . .	\$ 25.00	\$ 25.00	\$
Student Health Fee	5.00	5.00	
Student Activity Fee (Optional) . . .	5.00	5.00	
*Maintenance Sept. 14-Oct. 10, 1953 . .	31.28	31.28	31.28
Uniform Service Charge	7.00		
<i>Total Fees for Entrance—9-14-53 . .</i>	<i>\$ 73.28</i>	<i>\$ 66.28</i>	<i>\$ 31.28</i>
*Maintenance—October 11-Nov. 10 . .	\$ 34.75	\$ 34.75	\$ 34.75
*Maintenance—November 11-Dec. 10 . .	\$ 34.75	\$ 34.75	\$ 34.75
*Maintenance—Dec. 11-19-Jan. 1-10 . .	\$ 22.01	\$ 22.01	\$ 22.01
*Maintenance—Jan. 11-Feb. 10	\$ 34.75	\$ 34.75	\$ 34.75
<i>Total Fees for First Semester</i>	<i>\$199.54</i>	<i>\$192.54</i>	<i>\$157.54</i>
Books and Supplies—estimated	20.00	20.00	
<i>Total expenses—First Semester . . .</i>	<i>\$219.54</i>	<i>\$212.54</i>	<i>\$157.54</i>

SECOND SEMESTER

Tuition (Non residents pay \$150) . . .	\$ 25.00	\$ 25.00	\$
Student Health Fee	5.00	5.00	
Student Activity Fee (Optional) . . .	5.00	5.00	
*Maintenance—Feb. 11-Mar. 10	34.75	34.75	34.75
** <i>Total Fees for Entrance Due 1-25-54</i>	<i>\$ 69.75</i>	<i>\$ 69.75</i>	<i>\$ 34.75</i>
*Maintenance—March 11-April 10 . . .	34.75	34.75	34.75
*Maintenance—April 11-May 10	34.75	34.75	34.75
*Maintenance—May 11-22	13.90	13.90	13.90
<i>Total Fees Second Semester</i>	<i>\$153.15</i>	<i>\$153.15</i>	<i>\$118.15</i>
Books and Supplies—estimated	\$ 20.00	\$ 20.00	
<i>Total Expenses Second Semester . . .</i>	<i>\$173.15</i>	<i>\$173.15</i>	<i>\$118.15</i>
<i>Total Fees Regular Session</i>	<i>\$ 352.69</i>	<i>\$345.69</i>	<i>\$275.69</i>
<i>Total Expenses Regular Session . . .</i>	<i>\$392.69</i>	<i>\$385.69</i>	<i>\$275.69</i>

Room Key deposit, returnable (Payable to Dean of Men or Women—\$1.00)

¹ World War II Veterans (PL 16 and 346) attending under benefits of G. I. Bill will have tuition, activity fee, books, etc., paid for by Veterans Administration. Fees shown will be paid by these veterans. Korean veterans (PL 550) must secure authorizations for enrollment from the Veterans Administration prior to registration and must come prepared to pay all fees indicated above for male students.

* Maintenance includes board, room and laundry.

** Male students entering college in February must pay an additional \$7.00 for Uniform Service Charge and \$18.53 maintenance for the period from January 25th to February 10, 1954, making the total entrance fees for men \$95.28. Women students pay \$88.28.

NURSING FEES

FIRST SEMESTER

Tuition (non residents pay \$150)	\$ 25.00
Student Health Fee	5.00
Student Activity Fee (Optional)	5.00
Maintenance—Sept. 14-Oct. 10, 1953	31.28

Total Fees for Entrance \$ 66.28

*Maintenance—Oct. 11-Nov. 10	34.75
*Maintenance—Nov. 11-Dec. 10	34.75
*Maintenance—Dec. 11-19 —Jan. 1-10	22.01
*Maintenance—Jan. 11-Feb. 10	34.75

Total Fees for First Semester \$192.54

Books and Supplies—estimated 20.00

Total Expenses—First Semester \$212.54

SECOND SEMESTER

Tuition (non-residents pay \$150)	\$ 25.00
Student Health Fee	5.00
Student Activity Fee (Optional)	5.00
Maintenance—Feb. 11-Mar. 10	34.75
Uniforms	79.50

Total Fees for Entrance \$149.25

*Maintenance—Mar. 11-April 10	34.75
*Maintenance—April 11-May 10	34.75
*Maintenance—May 11-May 22	13.90

Total for Second Semester \$232.65

Total First Semester \$212.54

Total for both Semesters \$445.19

SUMMER SESSION

Tuition for both terms (non-residents pay \$100)	\$ 35.00
Student Health Fee	5.00
	<hr/>
	\$ 40.00

Room and board for first summer furnished by Prairie View Hospital

Total for First Year \$485.19

* Maintenance, includes board, room and laundry.

SECOND YEAR

FIRST SEMESTER

Tuition (non-residents pay \$150)	\$ 25.00
Books (estimated)	30.00
Uniforms (estimated)	40.00
Room and board furnished by Jefferson Davis Hospital	
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<i>Total Fees for First Semester</i>	\$ 95.00

SECOND SEMESTER

Tuition (non-residents pay \$150)	\$ 25.00
Room and board furnished by Jefferson Davis Hospital	
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<i>Total for both Semesters</i>	\$120.00

SUMMER SESSION

Tuition (non-residents pay \$100)	\$ 35.00
Room and board furnished by Jefferson Davis Hospital	
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<i>Total for Second Year</i>	\$155.00

THIRD YEAR

FIRST SEMESTER

Tuition (non-residents pay \$150)	\$ 25.00
Books (estimated)	10.00
Room and board furnished by Jefferson Davis Hospital	
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	\$ 35.00

SECOND SEMESTER

Tuition (non-residents pay \$150)	\$ 25.00
Diploma	7.50
State Board Examination	15.00
Picture for State Board	\$ 1.50
Photostat copy of records	1.00
Room and board furnished by Jefferson Davis and Prairie View Hospitals	
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	\$ 50.00
<i>Total both semesters</i>	\$ 85.00

SUMMER SESSION

Tuition for both terms (non-residents pay \$100)	\$ 35.00
Student Health Fee	5.00
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	\$ 40.00
<i>Total for third year</i>	\$125.00
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<i>Total for Three Years</i>	\$765.19

NOTE.—The following articles are to be brought by student nurses enrolling as freshmen: 4 sheets, 3 pillow cases, 1 pillow, sufficient covers, umbrella, rain coat, overshoes, white oxfords with low rubber heels, 2 spreads, 4 face towels, 4 bath towels, a work box containing instruments for mending and an inexpensive watch with second hand.

NON-RESIDENT STUDENT REGISTRATION FEES

Be it resolved by the Board of Directors of the Prairie View Agricultural and Mechanical College of Texas that the following schedule of registration, matriculation and/or tuition fees for non-resident students be and the same is hereby established, effective on and after September 1, 1953.

- A. For each student who registers for four (4) or more hours in a Summer Term (of six weeks), \$50.00 with a reduction of \$12.50 for each semester hour of maximum registration less than four.
- B. For each student who registers for twelve (12) or more semester hours in a semester of the Long Session, \$150.00 with a reduction of \$12.50 for each semester hour of maximum registration less than twelve.
- C. For registration in absentia in any term or semester (but for no courses) \$12.50.
- D. The residence status of a student is determined at the time of his first registration in the College and his residence is not changed by his sojourn at the College as a student except as provided by law. This policy shall apply to both graduate and undergraduate students regardless of any scholarship, student assistantship, or graduate assistantship that may be granted to any student.
- E. Pursuant to the authority granted by the Fiftieth Legislature in Chapter 218, General and Special Laws (House Bill 507) the Board of Directors hereby adopts the following non-resident regulations:
 1. 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 not resided in Texas for the twelve (12) months immediately preceding 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 not been a resident of the State twelve (12) months subsequent to his twenty-first birthday or for the twelve (12) months immediately preceding the date of registration.
 2. The term "residence" means "legal residence" or "domicile"; and the term "resided in" means "domiciled in."
 3. The legal residence of one who is under twenty-one (21) years of age is that of the father. Upon death of the father, the legal residence of the minor is that of the mother. Upon divorce of the parents, the residence of the minor is determined by the legal residence of the person to whom custody is granted by the court. In the absence of any grant of custody, the residence of the father continues to control. Upon death of both parents, the legal residence of the minor continues to be that of the last surviving parent until he becomes twenty-one (21) years of age unless he makes his home with his grandparents, whereupon their residence is controlling.
 4. A student under twenty-one (21) years of age shall not be classified as a resident student until his parents shall have maintained legal residence in this State for at least twelve (12) months. A student under twenty-one (21) years of age whose parent leaves the State and establishes legal residence in another State shall be classified as a non-resident student. It shall be the responsibility and duty of the student to submit legal evidence of any change of residence.
 5. All individuals who have come from without the State of Texas and who are within the State primarily for educational purposes are classified as non-residents. Registration in an educational institution in the State is evidence that residence is primarily for educational purposes even though such individuals may have become qualified voters, have become legal wards of residents of Texas, have been adopted by residents of Texas, or have otherwise attempted to establish legal residence within the State.
 6. A student twenty-one (21) years of age or older who comes from without the State and desires to establish a status as resident student must be a resident of the State for a period of at least twelve (12) months other than as a student in an educational institution and must have the intention of establishing a permanent residence within the State during that entire period.
 7. The residence of a wife is that of her husband; therefore, a woman resident of Texas who marries a non-resident shall be classified as a non-resident and shall pay the non-resident fee for all semesters subsequent to her marriage. A non-resident

- woman student who marries a resident of Texas is entitled to be classified immediately as a resident student and is entitled to pay the resident fee for all subsequent semesters.
8. All aliens shall be classified as non-resident students except that an alien who has applied for naturalization in the United States and has received his first citizenship papers shall have the same privilege of qualifying as a resident student as a citizen of the United States. The twelve (12) months' residence required to establish the status of a resident student shall not begin until after such first citizenship papers have been issued to the alien.
 9. Members of the Army, Air Corps, Navy or Marine Corps of the United States who are stationed in Texas on active military duty shall be permitted to enroll their children by paying the tuition fees and charges provided for resident students without regard to the length of time such member of the Armed Service shall have been stationed on active duty within the State. This provision shall extend only during active military service in Texas; and upon such member of the Armed Service being transferred outside the State of Texas, his children shall be classified as to residence under Section One (1) of these regulations. Any student claiming the privilege of this section shall submit at each registration a statement by the commanding officer of the post or station at which his parent is on active duty verifying the fact of his parent's military status.
 10. Appointment as a member of the teaching or research staffs or the holding of a fellowship, scholarship, or assistantship shall not affect a student's residence status or the tuition fee to be paid.
 11. It shall be the responsibility of the student to pay the correct fee at the beginning of each semester or term for which he may register, and a penalty of five dollars (\$5.00) shall be assessed for failure to pay the proper fee.
- F. Members of the Armed Forces who were bona fide residents of the State of Texas when they entered the service and who have been temporarily assigned elsewhere by the United States Government shall be considered residents of Texas and their minor children shall not be required to pay the non-resident fees set forth above.

ACTIVITY FEE (Optional)

The activities covered by this fee are subscription to "The Panther" (Student publication), membership in the Y.M.C.A. or Y.W.C.A., admission to campus athletic contests, debating contests, dramatics, general student activities, and provision of orchestra music for approved entertainments.

MEDICAL SERVICE FEE

The Health Service Fee covers all treatment at the College Hospital except surgery, special drugs and certain X-rays.

ACADEMIC INFORMATION

ADMISSION

GENERAL ADMISSION REQUIREMENTS

All communications in regard to admission to the College should be addressed to the Registrar, Prairie View A. & M. College, Prairie View, Texas.

All applicants for admission to the College must be of good moral character and must pass a satisfactory physical examination administered by the school physician. The school reserves the right to admit or reject any applicant.

ADMISSION BY CERTIFICATE

Applicants who present complete certified transcripts showing graduation from accredited four-year high schools with a minimum of fifteen units of work will be admitted without examination. From a secondary school which is organized with separate junior high school and three years senior high school, twelve units done in the upper three years of high school will satisfy the entrance requirements; the other three units may be accepted **en bloc** from the junior high school work.

A unit is the equivalent of one high school study satisfactorily pursued during one school year, thirty-six weeks in length, on the basis of five forty-five minute recitations a week. In laboratory courses three recitation period and two double periods of laboratory work per week constitute a unit.

Of the units acceptable for admission from high school, eight are required while seven are elective. The following represents the distribution of required units:

English	3 units
Algebra	1 unit
Plane Geometry	1 unit
History and Civics	2 units
Natural Science (with laboratory)	1 unit

For admission to the Division of Nursing Education, nine units are required as follows:

English	3 units
Mathematics	2 units
History	2 units
Natural Science (with laboratory)	2 units

Applicants for admission to the Division of Nursing Education must be at least 17 years of age and not over 30 years of age.

In order to pursue the courses leading to a Degree in Industrial Education or to a Technical Certificate, the student must satisfy the same entrance requirements as are prescribed for entrance to freshman college courses. The entrance requirements for admission to Engineering courses are as follows:

Algebra	1½*	Units	Social Science	2	Units
English	3	Units	Solid Geometry	½**	Unit
Plane Geometry	1	Unit			

If the student lacks some of the above requirements, he must make up the deficiencies.

The seven elective units may be earned in any subject or subjects accredited by the Department of Education of the State in which the high school is located, provided that the total number of required and elective units together in any one subject shall not exceed four units. Records submitted by applicants for entrance into the Division of Nursing Education must be approved by the State Board of Nurse Examiners before such applicants may be accepted in the Division as preliminary students.

All credit for admission must be filed and classified in the Registrar's Office before the student may attain academic status of any kind. Transcripts should be on file in the Registrar's Office at least one month before the registration date of the semester in which the applicant plans to register. At the request of the applicant, a blank for this purpose will be sent by the Registrar for the principal of the high school from which the applicant was graduated.

All entering students are required to take a placement test in English grammar and may be required to take a psychological test.

Students entering to major in applied music (piano, voice, and violin) should show evidence of satisfactory elementary

* Students having only 1 unit of Algebra will be required to take a five-hour course in College Algebra.

** Students without this credit will take Solid Geometry first semester, which will add three credit hours to requirements for graduation.

training and technique. Those who do not meet entrance requirements in applied music will study without credit until work and development are acceptable.

ADMISSION BY EXAMINATION

Any or all of the unit requirements for admission may be met by passing entrance examinations.

Spring entrance examinations are held throughout the State in May under supervision of the Texas Education Agency, mainly for the convenience of students in non-accredited high schools who wish to satisfy college entrance requirements.

Fall entrance examinations will be given at Prairie View A. & M. College, September 12 and 13, 1953, for graduates of four-year non-accredited high schools who wish to qualify for admission.

Entrance examinations will be administered between May and September at home, upon approval of such arrangements by the Registrar, Prairie View A. & M. College, Prairie View, Texas. These arrangements should be made through the principal or the superintendent of the high school from which the applicant was graduated.

ADMISSION TO ADVANCED STANDING

A student transferring from another college will be admitted to advanced standing in this College upon presentation of an official transcript of all work completed at the other institution.

Work completed at institutions which maintain standards of admission and graduation similar to those of this College will be given equivalent credit so far as it applies on courses offered in this College. All transfer students must meet residence requirements of this College.

Final acceptance of all transfer credit will depend upon the maintenance of satisfactory standing by the student during the first semester of his attendance.

Credit for undergraduate courses in extension and/or correspondence in the major subject or for the requirements for the baccalaureate degree shall be limited to one-fourth of the

total credit hours required. Transfer credit will be allowed only for extension and/or correspondence courses meeting the above qualifications.

Students applying for advanced standing in music courses that lead to a degree must show evidence of satisfactory completion of courses equivalent to those outlined in the music curriculum of the College and must pass acceptably an examination in applied music. Standing in music courses will be determined in consultation with the head of the Music Department.

ADMISSION BY INDIVIDUAL APPROVAL

Applicants for admission who are over 21 years of age may be admitted to college courses without examinations. Such persons must show evidence that they have substantially completed the work represented by the number of admission units required of other applicants and have sufficient ability and seriousness of purpose to do the work desired with profit to themselves and satisfaction to the College. Inability or failure to do the work shall be sufficient cause for withdrawal of such classification.

Students thus admitted may not receive credit toward a certificate or a degree until the eight required and seven elective admission units are absolved. These units may be absolved as follows: Upon completion of Freshman English three admission units are granted; two units in mathematics are granted upon completion of Freshman mathematics; two units in history and civics are granted for completion of Freshman social science; one unit in science is granted for completion of Freshman science. Any or all of these admission units may be absolved by examination. The remaining seven elective admission units may be granted upon completion of 30 semester hours of college work provided the average is no lower than "C."

ADMISSION AS IRREGULAR STUDENT

Applicants at least 16 years of age who have completed scholastic training equivalent to completion of the elementary grades may be permitted to restrict their studies to special courses upon petition to the Registration Committee and the

Dean of the School in which the work is to be pursued. Such permission is usually confined to those desiring to enroll in trade courses.

SPECIAL ADMISSION REQUIREMENTS FOR VETERANS

Veterans who have not completed high school may enter the College on individual approval. After successfully completing the Freshman year, the high school credits can be liquidated through appropriate examinations.

Prairie View A. & M. College normally admits high school graduates upon the recommendation of their high school principals. They must have fifteen units of high school work. Veterans may be admitted on individual approval even though they do not have fifteen units of high school work. Those admitted must complete the first year's work in college and pass the prescribed examinations to validate the high school credit.

SCHOLASTIC REGULATIONS

UNIT OF CREDIT

The unit of credit at Prairie View A. & M. College is the semester hour. A semester hour represents the equivalent of one recitation or lecture hour per week for eighteen (18) weeks. Two laboratory, practice, or demonstration hours represent the equivalent of one recitation or lecture hour per week for eighteen (18) weeks except that in the School of Engineering, and the Division of Industrial Education, and Military Science three practice or laboratory hours are required to equal one lecture or recitation hour.

EXPLANATION OF COURSE NUMBERS

The first digit reading from the left indicates the level on which a course is offered, as freshman—1, sophomore—2, junior—3, senior—4. The second digit indicates the semester; odd numbers indicate the first semester and even numbers, except zero, indicate second semester; zero indicates either semester. The third digit specifies the semester hours of credit a course carries.

Numbers in parentheses indicate the clock hours per week spent in lecture and laboratory respectively. Roman numerals I and II indicate first and second semesters respectively.

Example: CHEMISTRY 114, (2-4) I. This means that the course is on the freshman level, that this is the first semester of the course, that it carries four semester hours of credit, and requires two clock hours for lecture and four clock hours for laboratory period. The Roman numeral indicates it is being offered the first semester of the current school year.

CLASSIFICATION

Students who have credit for thirty semester hours are classified as sophomores; those having sixty semester hours are classified as juniors; and those having ninety semester hours are classified as seniors.

CLASS ATTENDANCE

It is each student's responsibility to attend regularly and punctually each class and laboratory exercise in each course. The student should arrange with the teacher in advance for a necessary absence, or explain it immediately on return. The instructor's daily record constitutes the official account of the student's attendance. The administration holds the instructor responsible for an accurate, complete, and clearly comprehensible record of each student's attendance.

For credit toward a degree or certificate of proficiency, regular attendance is required in addition to the proficiency attested by classwork and examination. Absences (excused or unexcused) are counted from the first meeting of the class in each session. An absence is 'excused' only at the request of the Dean of the School in which the student is enrolled. Excused absences count neither for nor against a student.

At the end of every third week in a semester, or whenever a student accumulates the maximum number of unexcused absences indicated in No. 2 below, faculty members shall report to the Dean of Instruction the names of students whose absences have been numerous enough to affect their work adversely.

1. Immediately following the first reporting date, each student reported for having accumulated enough absences

to adversely affect his work will be called in by the Dean of Instruction for an interview. The student and his parents will be warned that additional absences will jeopardize the student's chance of receiving credit for the course.

2. After the first reporting date, a student who has accumulated additional unexcused absences will be dropped from the course with a grade of F, if his total unexcused absences in a single course exceeds three times the number of semester hours of credit allowed, for example:

if his total unexcused absences in a single two-semester-hour course exceeds six

if his total unexcused absences in a single three-semester-hour course exceeds nine

if his total unexcused absences in a single four-semester-hour course exceeds twelve

if his total unexcused absences in a single five-semester-hour course exceeds fifteen

3. Students who have accumulate an excessive number of absences and have been dropped from a sufficient number of courses to reduce their course loads below the minimum of twelve semester hours may be dropped from the institution at the discretion of the Dean of Instruction.

CHANGE OF PROGRAM

After completing the initial procedures of registration for the session, a student may add or drop a course only with the approval of the Dean of the School. No course may be added after the tenth working day of any semester. The total number of hours must not become fewer than twelve. A student who drops a course after the first ten days of either semester for any cause other than withdrawal from the college is given, at the discretion of the Dean, a grade of "F" in the course for the semester. To drop a course unofficially (and persistent absence from class amounts to dropping) means to sever one's connection with the College.

Minimum Load. Every student enrolled in the College will be expected to carry a minimum load of twelve semester hours.

Students who wish to carry less than twelve semester hours must have the approval of the Dean of Instruction.

EXTRA LOADS

Any credit course taken in addition to a program of 17 semester hours constitutes an extra load in the School of Arts and Sciences, and 18 semester hours in the other Schools. To carry an extra load the student must obtain written permission from the Classification Committee. Permission to carry an extra load may be granted to students maintaining a scholastic average of "B" or above during the last previous semester or term in residence.

SYMBOLS OF GRADING

The grading symbols are: A (95-100) ; B (85-94) ; C (75-84) ; D (65-74) ; F (below 65) ; I—Incomplete; K—Delinquent Account; W—Official Withdrawal. A grade of "I" means that some relatively small part of the session's work remains undone because of illness or other unavoidable reason. Grades of "I" and "K" may become passing grades upon completion of the work prescribed by the instructor. (See section on Incomplete Classwork.)

"F" is a failing grade. Credit for a course in which the grade of "F" is given can be secured only by repeating the course.

INCOMPLETE CLASS WORK

A student who is compelled to delay beyond the end of the semester the completion of the class work of the semester for illness or other imperative causes, should, in person, or through a friend, petition the Dean of the School in which he or she is registered—beforehand, if possible—for permission to delay the work. If permission is granted, the work may be finished within a year and credit for it given at the discretion of the instructor. A student whose work is reported incomplete without the Dean's permission is given a failing grade.

The student must make application to the Registrar for a permit to remove a grade of "I" or "K" within a year after the grade is incurred.

GRADE POINTS

For a grade of "A" in any subject, three times as many grade points will be given as there are credit hours in the course; for grade "B," twice as many points; and for a grade "C," the same number of points. No other grades yield grade points. Grade points are required for graduation in the ratio of one grade point for each semester hour in residence counted toward graduation. Grade point requirement is for residence work only and does not apply to Extension school credit and transfer credits from another institution. (See Requirements for Degrees and Diplomas).

HONOR ROLL

The College honor roll is published at the end of each semester of regular session. To qualify for the honor roll a student must have carried a semester hour load of at least 12 hours and made an average of "B" and no grade below "C" in any course.

FAILING TO PASS—PROBATION

1. Any student who fails in 50 per cent or more of his semester hour registration any semester is automatically dropped from the institution.
2. Freshmen failing in less than 50 per cent of their semester hour registration must show a minimum of .5 (D-plus) grade points for each semester hour passed or be dismissed from school.
3. Freshmen with no failures but who have grade point averages of less than .5 of each semester hour registration are placed on probation and, if the grade point average is not met (see 4) the succeeding semester, are dropped.
4. In order to be eligible for re-admission any semester without special permission a student must be able to meet the following requirements in addition to 1, 2, and 3 above: At the end of each semester freshmen students must have a grade point total equal to 50 per cent of the total number of semester hours registration; sophomore students must have 75 per cent, and junior students must have 87 per cent.

5. Students who do not meet the grade point requirement (in 4) may be admitted for one semester on probation upon the recommendation of the Dean of the School and approval of the Registration and Classification Committee. If at the end of the semester the student has not met the grade point requirement, such student is automatically dropped.

GRADE REPORTS FROM THE REGISTRAR

Grade reports are sent to parents or guardians at the end of each semester.

The parents or guardians of all students doing work below passing grade are notified of this condition shortly after the results of the mid-semester tests have been reported to the Registrar's Office.

EXAMINATIONS AND TESTS

SEMESTER EXAMINATIONS

Examinations in all college courses are given at the end of the first and second semesters. Exceptions from examinations will not be granted. In all examinations, account is taken of English usage.

MID-SEMESTER TESTS

Mid-semester tests in all college courses are given at the end of the first nine-week period of each semester.

ABSENCE FROM EXAMINATIONS

A student who is compelled to be absent from a semester examination for sickness or other imperative cause should petition his Dean—beforehand, if possible—for permission to postpone the examination. This permission must be presented in writing to the teacher who is to give the examination and submitted by the teacher with the grade to the Registrar's Office.

A student absent from a semester examination without the Dean's permission is graded "F" and required to repeat the semester's work.

MEN CALLED TO THE ARMED SERVICES

RE: ACADEMIC CREDIT

Seniors who are in their last semester and are taking all the work for graduation are allowed their credits at the time they are called, provided it is past mid-semester, nine weeks.

Other students are allowed their grades up to the time of leaving if they are called as follows:

- a) If two weeks after mid-semester, eleven weeks, their "A," "B," and "C" grades.
- b) If after January 1 or May 1, their "A," "B," and "C" grades.
- c) "D" grades are allowed only when semester is completed.

In each case the student is expected to stay in college as long as possible before he goes to enter the Army. This is considered to be one week before his actual date of reporting.

A student who leaves earlier than the dates indicated above may be granted permission to take up his studies at a corresponding time in a later semester if he can come back. If he is out a considerable length of time, he should return earlier in order that the first part of the semester's work should be fresh in his mind when he comes to the latter part.

DEGREES, DIPLOMAS AND CERTIFICATES

APPLYING FOR GRADUATION

Any student expecting to graduate at the end of a regular long session is required to file application for the degree, diploma, or trade certificate expected, during the first five days of the first semester of his attendance in that session on a blank available in the Registrar's Office. If graduation is expected at the end of the summer session, the application for degree, diploma, or trade certificate should be made during the first three days of the first term of the student's attendance in that summer session. The application should be directed to the Registrar.

DEGREES AND DIPLOMAS OFFERED

1. From the School of Agriculture, Bachelor of Science.
2. From the School of Arts and Sciences, Bachelor of Arts, Bachelor of Music, Bachelor of Science, and Bachelor of Science in Education.

3. From the School of Home Economics, Bachelor of Science.
4. From the School of Nursing Education, Graduate Nurse Diploma, and Bachelor of Science.
5. From the School Engineering, Bachelor of Science.
6. From the Division of Industrial Education, Bachelor of Science.
7. From the Graduate School, Master of Science, Master of Arts, and Master of Education.

No degree will be conferred except publicly on Commencement Day. Every candidate must attend in person in academic attire the Commencement at which his degree is to be conferred. If he must be absent for a good cause, he must petition the President at least one week in advance.

REQUIREMENTS FOR DEGREES AND DIPLOMAS

Semester Hour and Grade Point Requirement. To qualify for any degree a student must not only present at least 120 semester hours and 120 grade points, but must also satisfy the specific course hour and grade point requirements listed for the School in which he is enrolled. One grade point for each semester hour presented in Residence for graduation is required of all candidates for degrees. Transfer credits do not carry grade points. (For evaluation of grades see "Grade Points.")

Special Requirements in Major Subject. Of the courses offered for an undergraduate degree at least six semester hours in advanced courses in both the major and minor subject must be completed in residence.

Credit for undergraduate courses in extension and/or correspondence in the major subject or for the requirements for the baccalaureate degree shall be limited to one-fourth of the total credit hours required. Transfer credit will be allowed only for extension and/or correspondence courses meeting the above qualifications.

Extension Limitation. Of the courses offered for and undergraduate degree, not more than sixty semester hours in correspondence and extension will be accepted.

Credit for undergraduate courses in extension and/or correspondence in the major subject or for the requirements for the baccalaureate degree shall be limited to one-fourth of the total credit hours required. Transfer credit will be allowed only for extension and/or correspondence courses meeting the above qualifications.

Residence Requirement. No degree will be conferred without campus residence equivalent to two semesters comprising thirty-six weeks or three summer sessions comprising thirty-six weeks, and the completion in residence of at least thirty semester hours of work counting toward graduation, provided also that the last 30 semester hours of work have been completed in continuous residence.

Six Hours in Government Required. The Forty-fifth Legislature passed the following law: "Provided further, that after September 1, 1937, no student shall be certified for graduation from any tax-supported State educational institution with the award of a college degree unless such student shall have completed theretofore in a standard college or university at least six (6) hours of credit in the governments of the State of Texas or of the United States of America, or the equivalent in both or shall have completed at least three (3) hours of said credit in government and at least three (3) hours of credit in a course in Military Science as provided in an approved Senior R.O.T.C. unit."

English Usage Requirements. All seniors must pass a standard test in English grammar before they will be approved for graduation. Drill classes are open to those who fail to pass the tests.

Off-Campus Practice Teaching Requirements. Students in all schools shall be required to take practice teaching off the campus before they may be recommended for graduation.

***Essay Requirement.** Every candidate for the bachelor's degree must write a report or an essay on some practical topic or project in his field of concentration. The report or essay must be typewritten, double-spaced on plain white bond paper, and must be approved by the advisor under whose supervision

it has been written, and the Head of the Department. Two copies must be bound at the expense of the student. The original and first carbon must be filed in the Dean's office not later than May first of the academic year in which the degree is to be conferred. Candidates for the degree at the Summer School Commencement must file their reports or essay before August first.

Skills Requirement. Candidates for graduation from the Schools of Agriculture, Home Economics, and Engineering are required to complete special skills courses in these respective fields, but they may be approved for graduation.

Graduation Honors Requirement. Students earning a minimum ratio of two grade points for each semester hour are graduated "With Distinction." Students earning a minimum ratio of 2.5 grade points for each semester hour are graduated "With Great Distinction." No student who has made a grade below "D" shall be eligible for consideration for honors regardless of his grade point ratio.

Registration Requirement. Students who are to receive a degree must be enrolled in the institution for the semester in which the degree is to be conferred. A minimum fee of \$7.50 is required of students who are not enrolled in any classes. Non-resident students pay \$12.50.

Second Baccalaureate Degree Requirement. No second Bachelor's degree will be conferred until the candidate has completed at least thirty semester hours in addition to those counted toward the first Bachelor's degree. The credit subsequent to the first undergraduate degree required for presentation on the second undergraduate degree must be done in residence.

REQUIREMENTS FOR TRADE CERTIFICATES

Trade certificates are awarded for completion of special trade courses as follows: Automotive Science, Broom and Mattress Making, Carpentry and Cabinet Making, Masonry, Electrical Repair, Laundering and Dry Cleaning, Machine Shop Estimating, Painting and Decorating, Plumbing and Steam-Fitting, Printing, Shoemaking, Stationary Engineering, Tailoring, Shorthand, Typing, Dressmaking, Cooking, Baking. For specific requirements of each trade see the school in which the trade is scheduled.

REQUIREMENTS FOR TEACHING CERTIFICATE

All teaching certificates are issued by the Certification Department of the Texas Education Agency in Austin, Texas. Persons interested in securing certificates should consult the Texas Education Agency's Bulletin 3 dated May 1950 because of the interpretations being placed on the standards. Special requirements for the various certificates are listed below.

REQUIREMENTS FOR THE VARIOUS CERTIFICATES STATE OF TEXAS

1. *Elementary Four-Year or High School Two-Year Certificate*
30 hours total college credit, which must include
 - 6 hours in English
 - 6 hours in Education
 - A course in Texas and Federal Governments
2. *Elementary Six-Year Certificate*
60 hours total college credit, which must include
 - 12 hours in Education
 - 6 hours in English
 - A course in Texas and Federal Governments
3. *High School Four-Year Certificate*
60 hours total college credit, which must include
 - 6 hours in English
 - 12 hours in Education, 6 of which is Secondary
 - A course in Texas and Federal Governments
4. *High School Six-Year Certificate*
90 hours total college credit, which must include
 - 18 hours in Education, 6 Secondary
 - 6 hours in English; and Practice Teaching
 - A course in Texas and Federal Governments
5. *Permanent High School Certificate*
 - (1) 120 hours total college credit—Standard Degree
 - 24 hours in Education, 8 Secondary in nature
 - 6 hours in English; and Practice Teaching
 - A course in Texas and Federal Governments
 - (2) Teach three years aggregating 27 months since degree was issued, if applicant has had 12 hours in Education, 6 of which must be Secondary in nature.
6. *Permanent Elementary Certificate*
 - (1) Regular college course in any State Teachers' College
 - (2) Teach five years aggregating 30 months on six-year elementary certificate.

Administrative Certificate

This administrative Certificate requires, along with college Graduation, the completion of twelve semester hours in the field of Advanced Administration and Supervision, and six semester hours in the field of Advanced Methods.

SCHOOL OF AGRICULTURE

The School of Agriculture offers two four-year curricula leading to a Bachelor of Science in Agriculture. They are the Curriculum in Agricultural Education and the Curriculum in Agriculture. Total Semester Hours Required for Graduation, 140.

The curriculum in Agricultural Education is designed primarily to train men who expect to become teachers of vocational agriculture in Texas high schools participating in federal funds.

The Curriculum in Agriculture is offered for those men who are preparing for the business of farming; for research workers; for employment in work with the various governmental agricultural agencies; farm managers; teaching in high schools and agricultural colleges. It offers training for students who plan to process and market agricultural products. The technical subjects covered in this curriculum are agricultural engineering, agronomy, agricultural economics, dairy husbandry, dairy manufacturing, horticulture, ornamental horticulture and poultry husbandry.

An Agricultural Experiment Station which is located on the premises of the campus is directly beneficial to students in agriculture. Through these research discoveries students learn to apply new scientific principles to the business of farming.

The freshman and sophomore years are basic for all agricultural students.

All electives in any of the departments must be officially approved by the Dean of the School of Agriculture and the head of the department in which the student majors.

Students choosing the Curriculum in Agriculture are not required to name the department in which they will major until the second semester of the sophomore year.

BASIC WORK IN THE FRESHMAN AND SOPHOMORE YEARS

FRESHMAN YEAR

First Semester	Hrs.	Second Semester	Hrs.
Dairying 112	2	Chemistry 124—General Chemistry	4
Elements of Dairying		Agronomy 123	3
Animal Husbandry 113	3	Fundamentals of Crop Production	
Types and Breeds of Livestock		Biology 114—General Zoology	4
Biology 134—General Botany	4	Agricultural Engineering 123	3
Chemistry 114—General Chemistry	4	Farm Shop	
English 113	3	English 123—Composition	3
Grammar and Composition		Military Science 121—Elementary	1
Agricultural Education 111—Orientation	1		
Military Science 111—Elementary	1		
	<hr/>		<hr/>
	18		18

SOPHOMORE YEAR

First Semester	Hrs.	Second Semester	Hrs.
*Mathematics 173	3	*Mathematics 183	3
Applied Mathematics		Applied Mathematics	
Agricultural Engineering 214 (123) ....4(3)		Poultry 223 (213)	3
Farm Machinery		Poultry Production	
Agricultural Economics 213	3	Veterinary Science 223	3
Fundamentals of Economics		Anatomy and Physiology	
Chemistry 315	4	Horticulture 233 (113)	3
Organic		Vegetable Gardening	
English 213	3	Dairying 223	3
Public Speaking		Dairy Production	
Military Science 211	1	Horticulture 222	2
Elementary		Landscape Art	
	<hr/>	Military Science 221	1
	18(17)	Elementary	
			<hr/>
			18

* Agricultural Engineering majors take Math. 113 and 123

AGRICULTURAL EDUCATION MAJORS

JUNIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Agricultural Education 313 (433)	3	Agricultural Education 323 (373)	3
New Farmers of America		Special Methods	
Political Science 263	3	Political Science 203	3
National Government		State Government	
Biology 334	4	Agronomy 323 (313)	3
Bacteriology		Field and Forage Crops	
Horticulture 313	3	Veterinary Science 323	3
Fruit Growing		Livestock Diseases and Sanitation	
Animal Husbandry 313	3	Entomology 323 (412)	3(2)
Feeds and Feeding		General Entomology	
Military Science 313	3	Agricultural Economics 323 (423)	3
Advanced		Marketing Farm Products	
	<hr/>	Military Science 323	3
	16 or 19	Advanced	
			<hr/>
			(17), 20, 18 or 21

SENIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Agricultural Education 426	6	Agronomy 423	3
Practice Teaching		Soil Conservation and Land	
Education 383	3	Use Planning	
Educational Psychology		Agricultural Economics 423	3
Horticulture 343	3	Farm Management	
Food Preservation		Animal Husbandry 423	3
Agricultural Engineering 313	3	Incubation and Brooding	
Farm Drainage		Horticulture 423	3
Animal Husbandry 343	3	Landscape Gardening	
Farm Meats		Animal Husbandry 422	2
Military Science 413	3	Problems	
Advanced		Agricultural Education 433	3
	<hr/>	Special Problems	
	18 or 21	Military Science 423	3
		Advanced	
			<hr/>
			17 or 20

AGRICULTURAL ENGINEERING MAJORS

JUNIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Agricultural Engineering 303	3	Agricultural Engineering 343	3
Surveying		Farm Building Construction	
Agricultural Engineering 313	3	Physics 124	4
Farm Drainage		Mathematics 223	3
Physics 114	4	Differential Calculus	
Mathematics 213	3	Political Science 203	3
Analytic Geometry		State Government	
Political Science 263	3	Elective	4
National Government		Military Science 323	3
Seminar 301	1	Advanced	
Agricultural Engineering			
Military Science 313	3		
Advanced			
	<hr/>		<hr/>
	17 or 20		17 or 20

SENIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Agricultural Engineering 414	4	Agricultural Engineering 423	3
Farm and Home Utilities		Farm Engines and Tractors	
Agricultural Engineering 403	3	Agricultural Engineering 443	3
Farm Motors		Terracing and Erosion Control	
Agronomy 413	3	Agricultural Engineering 463	3
Soil Science		Farm Building Construction	
Elective	7	Elective	8
Military Science 413	3	Military Science 423	3
Advanced		Advanced	
	<hr/>		<hr/>
	17 or 20		17 or 20

AGRONOMY MAJORS

JUNIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Plant Science 413	3	Plant Science 423	3
Plant Physiology		Plant Pathology	
Biology 254	4	Agronomy 323	3
Principles of Genetics		Field and Forage Crops	
Political Science 263	3	Agronomy 343	3
American National Government		Grain Crops	
Agronomy 333	3	Political Science 203	3
Soil Physics		State Government	
Electives	4	Entomology 323	3
Military Science 313	3	General Entomology	
Advanced		Elective	2
	<hr/>	Military Science 323	3
	17 or 20	Advanced	
			<hr/>
			17 or 20

SENIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Agronomy 402	2	Plant Science 403	3
Soil Management		Plant Breeding and Improvement	
Agronomy 413	3	Agronomy 443	3
Soil Science		Fertilizers	
Agronomy 433	3	Agricultural Engineering 313	3
Principles of Crop Judging		Farm Drainage	
Agronomy 423	3	Elective	8
Soil Conservation		Military Science 423	3
Elective	6	Advanced	
Military Science 413	3		
Advanced			
	<hr/>		<hr/>
	17 or 20		17 or 20

AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY MAJORS

JUNIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Agricultural Economics 313	3	Agricultural Economics 323	3
Cooperatives		Marketing Farm Products	
Agricultural Economics 333	3	Agricultural Economics 343	3
Advanced Economics		Records and Accounts	
English 213	3	Sociology 413	3
Public Speaking		Rural Sociology	
Agricultural Economics 353	3	Political Science 203	3
Legal Relations of the Farmer		State Government	
Political Science 263	3	Agricultural Economics 363	3
American National Government		Agricultural Credit	
Elective	2	Elective	3
Military Science 313	3	Military Science 323	3
Advanced		Advanced	
17 or 20		18 or 21	

SENIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Agricultural Economics 413	3	Agricultural Economics 423	3
Land Economics		Farm Management	
Agricultural Economics 403	3	Sociology 303	3
International Agricultural Economics		The Family	
Sociology 423	3	English 303	3
Organizations and Problems		Agricultural Journalism	
Elective	7	Elective	3
Military Science 413	3	Military Science 423	3
Advanced		Advanced	
16 or 19		17 or 20	

ANIMAL HUSBANDRY MAJORS

JUNIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Animal Science 313	3	Veterinary Science 323	3
Feeds and Feeding		Anatomy and Physiology	
Biology 254	4	Animal Husbandry 413	3
Principles of Genetics		Livestock Management	
Biology 334	4	Entomology 323	3
Bacteriology		General Entomology	
Animal Husbandry 302	2	Political Science 203	3
Stock Selection and Judging		State Government	
Political Science 263	3	Elective	4
National Government		Military Science 323	3
Animal Husbandry 343	3	Advanced	
Farm Meats			
Military Science 313	3		
Advanced			
19 or 22		16 or 19	

SENIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Animal Husbandry 433	3	Animal Husbandry 403	3
Beef Cattle and Horse Management		Animal Breeding	
Animal Husbandry 453	3	Animal Husbandry 423	3
Animal Physiology		Animal Nutrition	
Animal Husbandry 412	2	Animal Husbandry 443	3
Meat Selection and Cuttings		Swine and Sheep Management	
Animal Husbandry 401	1	Animal Husbandry 462	2
Seminar		Fitting and Showing Livestock	
Elective	8	Elective	6
Military Science 413	3	Military Science 423	3
Advanced		Advanced	
17 or 20		17 or 20	

DAIRY HUSBANDRY MAJORS

JUNIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Animal Husbandry 313	3	Entomology 323	3
Feeds and Feeding		General Entomology	
Biology 334	4	Veterinary Science 323	3
Bacteriology		Livestock Diseases and Sanitation	
Biology 254	4	Dairying 323	3
Principles of Genetics		Dairy Cattle Production	
Dairying 223	3	Political Science 203	3
Dairy Production and Management		State Government	
Political Science 263	3	Elective	5
National Government		Military Science 323	3
Military Science 313	3	Advanced	
Advanced			
	17 or 20		17 or 20

SENIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Agricultural Engineering 414	4	Animal Husbandry 403	3
Farm and Home Utilities		Animal Breeding	
Animal Husbandry 413	3	Animal Husbandry 423	3
Livestock Management		Animal Nutrition	
Dairying 413	3	Dairying 453	3
Market Milk		Dairy Herd Operation and	
Elective	7	Management	
Military Science 413	3	Elective	8
Advanced		Military Science 423	3
		Advanced	
	17 or 20		17 or 20

DAIRY MANUFACTURING MAJORS

JUNIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Biology 334	4	Entomology 323	3
Bacteriology		General Entomology	
Biology 254	4	Dairying 223	3
Principles of Genetics		Production and Management	
Dairying 413	3	Animal Husbandry 313	3
Market Milk		Feeds and Feeding	
Political Science 263	3	Political Science 203	3
American National Government		State Government	
Elective	3	Elective	5
Military Science 313	3	Military Science 323	3
Advanced		Advanced	
	17 or 20		17 or 20

SENIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Dairy Husbandry 433	3	Dairy Husbandry 401	1
Cheese and Butter Making		Seminar	
Dairy Husbandry 403	3	Dairy Husbandry 423	3
Creamery Plant Management		Ice Cream Making	
Dairy Husbandry 442	2	Dairy Husbandry 443	3
Judging Dairy Products		Technical Control of Dairy Products	
Biology 434	4	Animal Science 423	3
Bacteriology of Dairy Products		Animal Nutrition	
Elective	5	Elective	7
Military Science 413	3	Military Science 423	3
Advanced		Advanced	
	17 or 20		17 or 20

HORTICULTURE MAJORS

JUNIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Plant Science 413	3	Plant Science 423	3
Plant Physiology		Plant Pathology	
Biology 254	4	Entomology 323	3
Principles of Genetics		General Entomology	
Biology 334	4	Horticulture 423	3
Bacteriology		Landscape Gardening	
Horticulture 223	3	Agricultural Economics 323	3
Vegetable Gardening		Marketing Farm Products	
Political Science 263	3	Elective	5
American National Government		Military Science 323	3
Military Science 313	3	Advanced	
Advanced			
	<hr/>		<hr/>
	17 or 20		17 or 20

SENIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Horticulture 313	3	Horticulture 423	3
Fruit Culture		Advanced Fruit Culture	
Agronomy 413	3	Horticulture 401	1
Soil Science		Seminar	
Horticulture 443	3	Horticulture 463	3
Floriculture		Advanced Landscape Gardening	
Plant Science 443	3	Plant Science 463	3
Plant Breeding and Improvement		Plant Nutrition	
Elective	5	Elective	4
Military Science 413	3	Military Science 423	3
Advanced		Advanced	
	<hr/>		<hr/>
	17 or 20		14 or 17

ORNAMENTAL HORTICULTURE MAJORS

JUNIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Plant Science 413	3	Horticulture 423	3
Plant Physiology		Landscape Gardening	
Agricultural Engineering 303	3	Entomology 323	3
Surveying		General Entomology	
Physics 114	4	Plant Science 423	3
Biology 334	4	Plant Pathology	
Bacteriology		Agricultural Economics 323	3
Political Science 263	3	Marketing	
National Government		Political Science 203	3
Military Science 313	3	State Government	
Advanced		Elective	2
		Military Science 323	3
		Advanced	
	<hr/>		<hr/>
	17 or 20		17 or 20

SENIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Biology 254	4	Horticulture 483	3
Principles of Genetics		Green House Operation	
Horticulture 443	3	Plant Science 443	3
Floriculture		Plant Breeding	
Plant Science 463	3	Horticulture 463	3
Plant Nutrition		Advanced Landscape Gardening	
Elective	7	Elective	8
Military Science 413	3	Military Science 423	3
Advanced		Advanced	
	<hr/>		<hr/>
	17 or 20		17 or 20

POULTRY MAJORS

JUNIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Biology 254	4	Poultry 433	3
Principles of Genetics		Incubation and Brooding	
Biology 334	4	Entomology 323	3
Bacteriology		General Entomology	
Poultry 312	2	Veterinary Science 323	3
Poultry Judging		Anatomy and Physiology	
Animal Husbandry 313	3	Political Science 203	3
Feeds and Feeding		State Government	
Political Science 263	3	Elective	6
National Government		Military Science 323	3
Military Science 313	3	Advanced	
Advanced			
	<hr/> 16 or 19		<hr/> 18 or 21

SENIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Poultry 323	3	Poultry 423	3
Commercial Poultry Plant Management		Hatchery Management	
Poultry 413	3	Poultry 443	3
Poultry Physiology		Poultry Breeding	
Poultry 403	3	Animal Husbandry 423	3
Poultry Marketing		Animal Nutrition	
Poultry 401	1	Poultry 401	1
Seminar		Seminar	
Elective	7	Elective	7
Military Science 413	3	Military Science 423	3
Advanced		Advanced	
	<hr/> 17 or 20		<hr/> 17 or 20

DESCRIPTION OF COURSES

AGRICULTURAL EDUCATION

111. ORIENTATION. (1-0) *Credit 1.*

313. NEW FARMERS OF AMERICA. (3-0) *Credit 3.* I or II. Methods of making Vocational Education in Agriculture more effective through the New Farmers of America Organization.

323. (formerly 373) SPECIAL METHODS OF TEACHING VOCATIONAL AGRICULTURE IN SECONDARY SCHOOLS. (3-0) *Credit 3.* II. Special emphasis given to making outlines, lesson plans, surveys, and to reference books and bulletins needed in teaching.

403. SUPERVISED PRACTICE RECORDS. (3-0) *Credit 3.* I. Instructional methods in keeping, analyzing and using farm records.

413. VISUAL INSTRUCTION. (3-0) *Credit 3.* I or II. Use of pictures, maps, charts and graphs in instruction on the high school level; habits for state and local fairs.

426. OBSERVATION AND PRACTICE TEACHING IN AGRICULTURE. *Credit 6.*

433. SPECIAL PROBLEMS.* (By Appointment Only). *Credit 3.* II.

453. EXTENSION METHODS. (3-0) *Credit 3.* I. Extension Service Methods.

AGRONOMY

123. FUNDAMENTALS OF CROP PRODUCTION. (2-2) *Credit 3.* II. Science of crop production; crop plants in relation to environment; botany of

* For second semester in Agricultural Education

crop plants; crop improvement; tillage practices; crop rotation; seeds and seeding; and harvesting of crops.

323. FIELD AND FORAGE CROPS. (2-2) *Credit 3*. II. Major Field and Forage crops in the United States; special reference to production areas, cultural practices and harvesting and storage.

333. SOIL PHYSICS. (2-2) *Credit 3*. I. Mechanical composition of soils; physical characteristics of soils; and physical properties of soils.

343. GRAIN CROPS. (2-2) *Credit 3*. II. Production, harvesting and storing grain crops; recommendations for controlling insects that cause damage to grain crops.

402. SOIL MANAGEMENT. (1-2) *Credit 2*. I. Soil formation; physical, chemical and biological properties and application of these to the best land use practices.

413. SOIL SCIENCE. (2-2) *Credit 3*. I. Physical, chemical and biological nature of soils and their interactions to give fertile soil for plant growth; soil and plant relationships and soil fertility.

423. SOIL CONSERVATION. (2-2) *Credit 3*. I. Erosion, as affected by climate and vegetation; controlling erosion, naturally and artificially.

433. PRINCIPLES OF CROP JUDGING. (2-2) *Credit 3*. I. Judging crop quality, germination, soundness with implications for improvement of major economic crops.

443. FERTILIZERS. (2-2) *Credit 3*. II. Basic fertilizers and materials; manures and liming.

ANIMAL HUSBANDRY

113. TYPES AND MARKET CLASSES OF LIVESTOCK. (2-2) *Credit 3*. I. Judging types, carcasses, market classes and marketing livestock.

302. LIVESTOCK JUDGING. (1-2) *Credit 2*. I. Judging market animals and different breeds of livestock. One field trip.

313. FEEDS AND FEEDING. (3-0) *Credit 3*. I. Composition and digestibility of feed stuff; physiology, preparation, feeding standards and calculation of rations for farm animals.

343. FARM MEATS. (2-2) *Credit 3*. I. Methods of killing, cutting, grading and preserving farm meats.

401. SEMINAR. (1-0) *Credit 1*. Reviews and discussion of animal research articles.

403. ANIMAL BREEDING. (3-0) *Credit 3*. II. Physiology of reproduction; breeding systems, and practices; application of genetic principles to the problems of animal breeding.

412. MEAT SELECTION AND CUTTING. (1-2) *Credit 2*. I. Classification and grading farm meats; nutritive values; factors influencing quality and dressing percentages of meats from different animals.

413. LIVESTOCK MANAGEMENT. (2-2) *Credit 3*. I. Methods and practices used in the production and management of beef cattle, swine, sheep and work animals.

422. SPECIAL PROBLEMS. (2-0) *Credit 2*. II. Research problems in Animal Husbandry; planning, execution, compiling and summarizing the data in publication form.

423. ANIMAL NUTRITION. (3-0) *Credit 3*. II. Principles of Animal Nutrition and feeding practices; recent findings and experimental procedures.

433. BEEF CATTLE AND HORSE MANAGEMENT. (2-2) *Credit 3*. I. Systematic studies of methods of breeding, feeding and management practices used in beef cattle and horse production.

453. ANIMAL PHYSIOLOGY. (2-2) *Credit 3*. II. Physiology of the domestic animals; digestion, absorption, metabolism, excretion and reproduction.

462. FITTING AND SHOWING LIVESTOCK. (1-2) *Credit 2*. II. Selecting, grooming, handling and showing the beef cattle, dairy cattle, sheep and swine for show and sale.

AGRICULTURAL ECONOMICS

213. FUNDAMENTALS OF ECONOMICS. (3-0) *Credit 3*. I. Study of Agriculture as an industry, including regions, types of farming, tariff, and national production programs.

313. COOPERATIVES. (3-0) *Credit 3*. I. Principles involved in the successful operation of cooperative organizations; marketing, purchasing, and other forms of cooperation are included.

323. MARKETING FARM PRODUCTS. (3-0) *Credit 3*. II. Principles underlying the successful marketing of farm products; middlemen, grading, packing, and shipping are included.

333. ADVANCED ECONOMICS. (3-0) *Credit 3*. I. Principles of economics applied to special problems of agriculture, farm credit, tenancy, farm ownership, land values and governmental policies as related to Agriculture.

343. RECORDS AND ACCOUNTS. (3-0) *Credit 3*. II. The various systems of farm record keeping, farm accounts, property, labor, feed, production, and field records are included.

353. LEGAL RELATIONS OF THE FARMER. (3-0) *Credit 3*. I. Legal instruments as they affect the farmer; contracts, corporations, partnerships, bankruptcy, auctions, wills, deeds, abstracts, insurance companies, banks and the Farm Credit Administration.

403. INTERNATIONAL AGRICULTURAL ECONOMICS. (3-0) *Credit 3*. I. Principal agriculture areas, population, livestock, crop production belts, international trade, tariffs and reciprocal trade agreements.

413. LAND ECONOMICS. (3-0) *Credit 3*. I. Land and the population; Agricultural land; land as property; recreational land; land tenure and soil conservation.

423. FARM MANAGEMENT. (3-0) *Credit 3*. II. Practical farm management problems; farm records; choosing a farm; farm labor and equipment; cropping; feeding, and production costs.

AGRICULTURAL ENGINEERING

123. FARM SHOP. (1-4) *Credit 3*. II. Farm work shop methods; tool identification, care, and use; skills in fitting farm tool and making simple working drawings. Course includes some woodwork, forging, soldering, welding and general repairs.

214. FARM MACHINERY. (2-4) *Credit 4*. I. Identification, care, use, repair and maintenance of farm machinery.

303. SURVEYING. (1-4) *Credit 3*. I. Use, adjustment and care of all instruments necessary for elementary surveying and the field application of those instruments to surveying problems.

313. FARM DRAINAGE. (1-4) *Credit 3*. I. Land drainage; terracing, gully control, irrigation and land reclamation.

343. FARM BUILDING AND CONSTRUCTION. (1-4) *Credit 3*. II. Planning, construction and repair of farm buildings and structures.

403. FARM MOTORS. (2-2) *Credit 3*. I. The economic use of farm motors; theory and development of the internal combustion engine; design, construction of various internal combustion engines.

414. FARM AND HOME UTILITIES. (2-4) *Credit 4*. I. Installation, operation, care and repair of ventilation, heating, lighting, water supply, sewage disposal, refrigeration units and air conditioning units.

423. FARM ENGINES AND TRACTORS. (1-4) *Credit 3*. II. Operation, care and repair of tractors, trucks, and automobiles; tractor types and sizes and their economic adaptability and utilization.

443. TERRACING AND EROSION CONTROL. (1-4) *Credit 3*. II. Engineering principles of laying off terraces; plotting contour lines and the use of farm levels; use of tape, chain, level, plane table; fundamental principles underlying land drainage.

463. ADVANCED FARM CONSTRUCTION. (1-4) *Credit 3*. II. Building foundations; computing, mixing and pouring concrete, rafter cutting, drawing; figuring lumber bills, painting and finishing structures.

BIOLOGY

434. BACTERIOLOGY OF DAIRY PRODUCTS. (2-4) *Credit 4*. I. Influence of micro-organisms on the quality of milk and milk products; sanitary control of farm and commercial dairies.

DAIRYING

112. ELEMENTS OF DAIRYING. (1-2) *Credit 2*. I. An introduction to dairying; branches of the dairy industry; judging, breeding and management of dairy cattle.

223. DAIRY PRODUCTION. (2-2) *Credit 3*. II. The dairy industry; major factors in management of dairy cattle for milk production; production and processing of milk and milk products.

323. DAIRY CATTLE PRODUCTION. (2-2) *Credit 3*. II. The dairy breeds; management of purebred herds; modern testing and breeding methods and their application to profitable dairy farming.

401. SEMINAR. (1-0) *Credit 1.* II. A Comprehensive review of the dairy industry; papers on assigned subjects prepared by students.

403. CREAMERY PLANT MANAGEMENT. (2-2) *Credit 3.* I. Production, transportation, processing, plant management and distribution of milk and related products.

413. MARKET MILK. (2-2) *Credit 3.* I. Sanitary production and processing of milk supply; nutritional value and sanitary conditions.

423. ICE CREAM MAKING. (2-2) *Credit 3.* II. Preparation, care, and processing of materials used; plain and fancy ice cream, sherbets and related products.

433. CHEESE AND BUTTER MAKING. (2-2) *Credit 3.* I. Manufacture, packing and marketing butter and cheese.

442. JUDGING DAIRY PRODUCTS. (1-2) *Credit 2.* I. Judging milk, butter, cheese and ice cream according to established market grades.

443. TECHNICAL CONTROL OF DAIRY PRODUCTS. (2-2) *Credit 3.* I. Scientific methods of analyzing milk and milk products and their application in controlling quality and purity of dairy products.

453. DAIRY HERD OPERATION AND MANAGEMENT. (2-2) *Credit 3.* II. Adjusting the herd and available facilities to market demands; management of the dairy farm.

ENTOMOLOGY

323. GENERAL ENTOMOLOGY. (2-2) *Credit 3.* II. Insect morphology, life histories, family characteristics, habits and their agricultural relationships.

HORTICULTURE

222. LANDSCAPE GARDENING. (1-2) *Credit 2.* II. The principles of landscape design and simple designs of small properties.

233. VEGETABLE GARDENING. (2-2) *Credit 3.* II. Principles of successful home and commercial vegetable gardening in the South.

313. FRUIT GROWING. (2-2) *Credit 3.* I. Principles of fruit growing with special reference to the conditions of Texas, including location, varieties, soil, fertilizers, planting and cultural methods; pruning, spraying, harvesting, and sorting also discussed and demonstrated.

343. FOOD PRESERVATION. (1-4) *Credit 3.* I. Equipment, recipes and directions for home food preservation.

401. SEMINAR. (1-0) *Credit 1.* II. Review of current papers and works in the field of horticulture.

423. ADVANCED FRUIT CULTURE. (2-2) *Credit 3.* II. Tree and small fruit productions; planting, breeding, pruning, spacing and protection.

443. FLORICULTURE. (2-2) *Credit 3.* I. Principles of producing flowers for sale; growing of house plants; and arrangement of cut flowers.

463. ADVANCED LANDSCAPE GARDENING. (2-2) *Credit 3.* II. Studies of landscape designs and more complex drawings and designs of large lots of city or rural property.

483. GREENHOUSE OPERATION. (2-2) *Credit 3. II.* Fundamental principles of greenhouse operation; propagation, ventilation, heating, watering, fumigation, soil sterilization and pottering.

POULTRY

223. POULTRY PRODUCTION. (2-2) *Credit 3. II.* Poultry breeds and types; incubation and brooding; culling for egg production; housing and equipment construction and care.

312. POULTRY JUDGING. (1-2) *Credit 2. I.* Production characteristics and evaluation of present breeds and types; production judging methods; standard judging methods; growing and fitting for the show room.

323. COMMERCIAL POULTRY PLANT MANAGEMENT. (2-2) *Credit 3. I.* Comprehensive studies in operating poultry farms; breeding and fattening plants.

401. SEMINAR. (1-0) *Credit 1. I.* A review of current poultry literature and presentation of papers on selected poultry topics.

403. POULTRY MARKETING. (2-2) *Credit 3. I.* Methods of handling of eggs, live and dressed poultry for market; candling and grading eggs; killing, dressing, grading and packing poultry for market.

413. POULTRY PHYSIOLOGY. (2-2) *Credit 3. I.* Respiration, digestion and excretion; metabolism and nutrients; feeding and care of chicks on various diets.

423. HATCHERY MANAGEMENT. (2-2) *Credit 3. II.* Commercial hatching in Texas and the United States; problems in hatchery management; sanitation; fumigation and disinfecting incubators.

433. INCUBATION AND BROODING. (2-2) *Credit 3. II.* Development of the chick; survey of literature on incubation and brooding; incubation and brooding chicks; hatchery problems and diets.

443. POULTRY BREEDING. (3-0) *Credit 3. II.* Genetic principles applied to poultry breeding and improvement; inheritance of economically important traits; methods of breeding poultry.

VETERINARY SCIENCE

223. ANATOMY AND PHYSIOLOGY. (2-2) *Credit 3. II.* Anatomical and physiological structure; digestive, respiratory and genito-urinary organs of horse, ox, pig, sheep, and chicken; common diseases of farm animals and their prevention.

323. LIVESTOCK DISEASES AND SANITATION. (2-2) *Credit 3. II.* A continuation of Veterinary Science 223 with special emphasis on animal diseases and their control and treatment.

PLANT SCIENCE

403. PLANT BREEDING AND IMPROVEMENT. (3-0) *Credit 3. II.* Principles involved in breeding economic important crop plants with emphasis on improvement in resistance to disease, drought, insects and extreme temperatures, and for machine harvesting and cultivation.

413. PLANT PHYSIOLOGY. (2-2) *Credit 3.* I. Structure, physiology of plant organ systems and related principles.

423. PLANT PATHOLOGY. (2-2) *Credit 3.* II. A study of diseases in plants; diseases found in the economic important crop plants.

443. ADVANCED PLANT BREEDING AND IMPROVEMENT. (3-0) *Credit 3.* I. A comprehensive study of breeding methods and their application to the improvement of economic importance crop plants; special problems in plant breeding.

463. PLANT NUTRITION. (2-2) *Credit 3.* II. Importance and use of plant nutrients, fertilizers, manures and lime; comprehensive review of the part played by the minor elements in plant nutrition.

VETERINARY SCIENCE

233. ANATOMY AND PHYSIOLOGY. (2-2) *Credit 4.* II. Anatomical and physiological structures; digestive, respiratory and genito-urinary organs of horse, ox, pig, sheep, and chicken; common diseases of farm animals and their prevention.

232. LIVESTOCK DISEASES AND SANITATION. (2-2) *Credit 4.* II. A continuation of Veterinary Science 233 with special emphasis on animal diseases and their control and treatment.

PLANT SCIENCE

444. PLANT BREEDING AND IMPROVEMENT. (3-0) *Credit 3.* II. Principles and methods involved in breeding economic important crop plants with emphasis on improvement in resistance to diseases, drought, insects and extreme temperatures, and for machine harvesting and cultivation.

SCHOOL OF ARTS AND SCIENCES

COLLEGE OF LIBERAL ARTS

The School of Arts and Sciences offers courses in Biology, Business Administration, Mathematics, Economics, Education, English, History, Music, Physical and Health Education, Physics, Chemistry, Philosophy, Political Science, Sociology, Social Science, Modern Foreign Language, and Library Science.

Students may major in one of the above courses with the exception of Philosophy and Modern Foreign Language. After completing his course of study and receiving his degree the student may either qualify to teach in his major or minor field, or he may choose to do graduate work, or he may elect to enter a profession in which his particular course of study has provided adequate background.

The first two years' work is designed (1) to give the student a general educational background, regardless of his intended major or the profession he hopes to enter; and (2) to perfect the tools required in more advanced studies.

During the last two years of college work a considerable degree of concentration in a major field is required although ample opportunity is given for cultivating related interests or pursuing studies which do not fall within the field of the student's major.

All freshmen students are required to register for Orientation (Education 103) during the first term in college.

All freshmen are given an English placement test. Those freshmen whose percentiles on the English Placement Test are unsatisfactory are placed in English 103. This is a remedial English course which they must pass before being permitted to enroll in English 113 and is required in addition to the 12 credit hours listed. If, however, persons enrolled in English 103 show sufficient ability and progress in the course before or by the end of the first nine weeks they may be transferred to an English 113 class and will be permitted to change their programs from English 103 to 113. Students who have failed

English 103 will be required to repeat the course and will not be permitted to change their programs from English 103 to 113.

Every student in The School of Arts and Sciences is required to spend 6 supervised clock hours per week, throughout one year of residence in long session, or the equivalent thereof in some form of vocational training. This requirement is referred to as "Industry" and its fulfillment grants two semester hours credit per semester. The grade points earned however, are not applicable to the 120 required grade points.

Physical Education practice is required of all women students—two hours per week throughout the freshman and sophomore years.

Unless specifically excused by the President, each student is expected to satisfy the requirements for a teacher's certificate.

All freshmen and sophomore students of the School of Arts and Sciences, unless specifically excused by the Registrar before registration or the Dean of The School of Arts and Sciences after registration, are required to follow the prescribed courses as set forth in the catalogue. The various departments will hold to the work and sequence as outlined herein for those who plan to major within the department. However, a major should always work out his course of study with the department head.

REQUIREMENTS FOR GRADUATION

The following general requirements must be met by all persons desiring degrees of any type from the School of Arts and Sciences. Minimum Semester Hours Required for Graduation, 120.

ENGLISH (113, 123, 213, 223)	12
FOREIGN LANGUAGE (In one language)	12
SOCIAL SCIENCE (Any Social Science)	6
NATURAL SCIENCE (Any Natural Science)	6
MATHEMATICS (Any Mathematics)	6
PHYSICAL EDUCATION (Excluding Practice Courses)	6
AMERICAN GOVERNMENT (National and State)	6
NEGRO HISTORY (or Elective)	3
*RURAL STUDIES (or Elective)	3
INDUSTRY	4
MILITARY SCIENCE	4
EDUCATION	18-24 hrs.
PHYSICAL EDUCATION PRACTICE (Women)	4

NOTE.—Persons attending Extension Centers or Summer Sessions will be required to present four hours in required subjects as an equivalent to three semester hours earned during the regular session.
This does not apply to Summer Session commencing summer of 1950, nor Extension Centers granting three semester hours credit.

* Rural Education or Sociology 233.

MAJOR AND MINOR REQUIREMENTS

After the completion of the sophomore year every student in the School who has not already done so must select, with the advice and consent of the Department Head concerned, a department as a major field or a major. In addition to selecting a major field or a major every student must also select another department or other departments for minor fields of concentration and specialization. This is commonly referred to as choosing a minor or minors. Every candidate for graduation from the School of Arts and Sciences must satisfactorily complete a major and a minor before his graduation will be recommended.

At least six hours of the last 12 required for the completion of major and minor must be done in residence. The course may be specified by the department concerned.

DEGREES

Bachelor of Arts. The degree of Bachelor of Arts will be conferred upon candidates who satisfy all the general requirements for graduation and satisfactorily complete their work in English, the Social Sciences, or Music.

Bachelor of Music. The degree of Bachelor of Music will be conferred upon candidates who satisfy all the general requirements for graduation and complete not less than 75 semester hours in Music.

Bachelor of Science. The degree of Bachelor of Science will be conferred upon all candidates who satisfy the general requirements for graduation and satisfactorily complete their major work in Mathematics, Natural Science, or Physical Education.

Bachelor of Science in Education. The degree of Bachelor of Science in Education will be conferred upon candidates who satisfy all the general requirements for graduation and satisfactorily complete their major work in Education.

Note.—Students are advised not to select Secondary Education as a major field of concentration. Those who do will be required to complete a second major in some field other than Education. The type of degree to be awarded any person presenting two majors will be determined from his second major.

GENERAL CURRICULUM IN THE SCHOOL OF ARTS AND SCIENCES

FRESHMAN YEAR

First Semester	Hrs.	Second Semester	Hrs.
Education 103 (General Orientation)	3	Elective	3
English 113 (Grammar and Composition)	3	English 123	3
Mathematics 173 (or 113) Elements of Applied Mathematics or College Algebra	3	Reading and Composition	3
Social Science 113 (or History 113) Introduction to Social Science or Europe 1500-1815	3	Mathematics 183 (or 123) Elements of Applied Mathematics or Plane Trigonometry	3
Natural Science 113 or (Chem. 114 or Biol. 114) College Science or General Organic Chemistry with Introductory Qualitative Analysis or General Zoology	3 or 4	Natural Science 123 or (Chem. 124 or Biol. 134) College Science or General Inorganic Chemistry or General Botany	3 or 4
Military Science 111 (Men)—Elem.	1	Social Science 123 (or Hist. 123) Introduction to the Social Sciences, or Europe 1815-1914	3
Physical Education 111 (Women) Freshman Practice	1	Military Science 121 (Men)—Elem.	1
Industry	2	Physical Education 121 (Women) Freshman Practice	1
	18 or 19	Industry	2
		<hr/>	18 or 19

SOPHOMORE YEAR

First Semester	Hrs.	Second Semester	Hr.
Foreign Language 113 (French or Spanish) Elementary French or Elementary Spanish	3	Foreign Language 123 (French or Spanish) Elementary French or Elementary Spanish	3
Elective	3	Elective (or Education 283)	3
Political Science 263 American National Government	3	Political Science 203 American State Government	3
English 213 Public Speaking	3	Elective	3
Physical Education 211 (Women) Sophomore Practice	1	English 223 Introduction to Literature	3
Military Science 211 (Men) Elem.	1	Military Science 221 (Men) Elem.	1
Elective (or Education 273)	3	Physical Education 221 (Women) Sophomore Practice	1
	16	<hr/>	16

JUNIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Foreign Language 213 (French or Spanish) Reading and Grammar	3	Foreign Language 223 (French or Spanish) Reading and Grammar	3
Physical Education Theory (or Elective)	3	Physical Education Theory (or Elective)	3
Military Science 313 (or Elective) Advanced	3	Elective (or Major)	3
Elective (or Education)	3	Military Science 323 (or Elective) Advanced	3
	15	Elective (or Education 333)	3
		<hr/>	15

SENIOR YEAR

First Semester	Hrs.
History 463 (or Elective)	3
Education (Electives)	12
Electives (or Major and Minor Work)	9
Military Science 413 and 423 (or Electives) Advanced	6
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	30

THE DEPARTMENT OF ECONOMICS AND BUSINESS ADMINISTRATION

The Department of Economics and Business Administration offers (1) A major or minor in Economics or Business Administration, (2) A teaching major in Economics or Business Administration, and (3) A two-year course in Secretarial Science. Those persons selecting a teaching major in the department are expected to select a teaching minor outside the department.

For a major in the department, thirty semester hours are required, of which 12 must be in courses numbered above the Sophomore level. For a minor, students are required to present eighteen semester hours, of which 6 must be in courses numbered above the Sophomore level. The selection of courses must be made in consultation with the Head of the Department.

Departmental Ruling on Academic Status: In the interest of maintaining well-balanced academic standards, all majors and minors in the Department must maintain an average of "C" in the Freshman and Sophomore courses and an average of "B" in the Junior and Senior courses.

Each student who selects a teaching major in Business Administration is required to show a proficiency in the skills by acquiring a minimum speed of 80 words per minute in typing. In addition to the above requirement, all candidates for a degree or certificate will be expected to spend a period of internship in some business or office, or, when teaching certificate is desired, the usual off-campus practice teaching in education must be met.

SUGGESTED PROGRAM—(TEACHING) MAJORS IN BUSINESS ADMINISTRATION

FRESHMAN YEAR		Hrs.	Second Semester		Hrs.
First Semester					
Natural Science 113	.....	3	Natural Science 123	.....	3
College Science	.....		College Science	.....
English 113	.....	3	English 123	.....	3
Grammar and Composition	.....		Reading and Composition	.....
Mathematics 113 or 173	.....	3	Mathematics 123 or 183	.....	3
Applied Math. or College Algebra	.....		Applied Math. or Trigonometry	.....
Orientation 103	.....	3	Business Adm. 143	.....	3
Social Science 113	.....	3	Introduction to Business	.....
Introduction to Social Science	.....		Social Science 123	.....	3
Military Science 111	.....	1	Introduction to Social Science	.....
Elementary or	.....		Military Science 121	.....	1
Physical Education 111	.....	1	Elementary or	.....
Freshman Practice	.....		Physical Education 121	.....	1
Industry	.....	2	Freshman Practice	.....	2
			Industry	.....	2
		18			18

SOPHOMORE YEAR

First Semester	Hrs.	Second Semester	Hrs.
Foreign Language 113	3	Foreign Language 123	3
Elementary French or Elem. Spanish		Elementary French or Elem. Spanish	
Economics 213	3	Economics 223	3
Principles of Economics		Principles of Economics	
English 213	3	English 223	3
Public Speaking		Public Speaking	
Business Administration 232	2	Business Administration 242	2
Typewriting		Typewriting	
Political Science 263	3	Political Science 203	3
National Government		State Government	
Education 273	3	Education 283	3
Pupil Growth and Development		Pupil Growth and Development	
Military Science 211	1	Military Science 221	1
Elementary or		Elementary or	
Physical Education 211	1	Physical Education 221	1
Practice		Practice	
	18		18

JUNIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Foreign Language 213	3	Foreign Language 223	3
Advanced Grammar and Reading		Advanced Grammar and Reading	
Business Administration 253	3	Business Administration 263	3
Shorthand (Lab. Period)		Shorthand (Lab. Period)	
Business Administration 254	1	Business Administration 264	4
Principles of Accounting		Principles of Accounting	
Business Administration 282	2	Teaching Minor	3
Secretarial Practice		Education 323	3
Education 393	3	High School Curriculum	
Educational Problems			
	15		16

SENIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Business Administration 463	3	Business Administration 343	3
Business Law		(9 Wks.) Personnel Management	
Teaching Minor	3	Teaching Minor	3
Business Administration 373	3	Education 406	6
Advanced Typing		Student Teaching	
Business Administration 423	3	Elective	3
Teaching of Business Subjects			
Education 423	3		
School and Community Relations			
	15		15

**SUGGESTED PROGRAM—MAJOR IN (GENERAL)
BUSINESS ADMINISTRATION**

FRESHMAN AND SOPHOMORE YEARS SAME AS REQUIRED OF
STUDENTS TAKING A TEACHING MAJOR IN
BUSINESS ADMINISTRATION

JUNIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Foreign Language 213 (Fren. or Span.) ..	3	Foreign Language 223 (Fren. or Span.) ..	3
Advanced Grammar and Reading		Advanced Grammar and Reading	
Bus. Adm. 263	3	Economics 353	3
Business Law		Statistics	
Economics 323	3	Bus. Adm. 363	3
Consumers Economics		Salesmanship	
English 213	3	English 223	3
Public Speaking		World Literature	
Elective	3	Economics 343	3
		Personnel Management	
	15		15

SENIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Economics 453	3	Bus. Adm. 343	3
Labor Problems		Personnel Management	3
Bus. Adm. 473	3	Economics 463	3
Occupational Guidance		Economic Thought	6
Bus. Adm. 313	3	Elective	3
Marketing		Economics 403	3
Elective	3	Money and Banking	
Economics 413	3		
Labor Legislation			
	15		15

SUGGESTED PROGRAM FOR ECONOMICS MAJORS

FRESHMAN YEAR

First Semester	Hrs.	Second Semester	Hrs.
Social Science 113	3	Social Science 123	3
Introduction to Social Science		Introduction to Social Science	3
English 113	3	English 123	3
Grammar and Composition		Reading and Composition	3
Orientation 103	3	Mathematics 123	3
Economics 173	3	Trigonometry	3
Economic Geography		Economics 183	3
Mathematics 113	3	Economic Geography	
College Algebra		Business Administration 143	3
Physical Education 111	1	Introduction to Business	
Freshman Practice		Physical Education 121	1
Industry	2	Freshman Practice	
Military Science	1	Industry	2
Elementary		Military Science	1
	18	Elementary	
			18

SOPHOMORE YEAR

First Semester	Hrs.	Second Semester	Hrs.
English 213	3	English 223	3
Public Speaking		World Literature	3
Economics 213	3	Economics 223	3
Principles of Economics		Principles of Economics	3
Foreign Language 113	3	Foreign Language 123	3
Elementary French or Elementary Spanish		Elementary French or Elementary Spanish	
Natural Science 113	3	Natural Science 123	4
College Science		College Science	
Bus. Adm. 254	4	Bus. Adm. 264	4
Accounting		Accounting	
Military Science 211	1	Military Science 221	1
Elementary		Elementary	
Physical Education 211	1	Physical Education 221	1
Sophomore Practice		Sophomore Practice	
	17		17

JUNIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Foreign Language 213	3	Foreign Language 223	3
Advanced Grammar and Reading (Spanish) or (French)		Reading and Grammar Review (French) or Advanced Grammar and Reading (Spanish)	
Bus. Adm. 243	3	Political Science 203	3
Introduction to Business		American State Government	
Economics 323	3	Economics 363	3
Economics of Consumption		Business Organization	
Political Science 263	3	Economics 333	3
National Government		Economic History	
Physical Education (Theory)	3	Elective	3
Introduction to Physical Education		Physical Education (Theory)	3
Military Science 313	3	Introduction to Physical Education	
Advanced		Military Science 323	3
		Advanced	
	15 or 18		15 or 18

SENIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Economics 453	3	Economics 463	3
Labor Problems		Economic Thought	9
History 463 or Elective	3	Post-War Economic Policies	3
History of the Negro in America	3	Bus. Adm. 463	3
Bus. Adm. 363	3	Business Law	3
Salesmanship	3	Military Science 423	3
Bus. Adm. 473	3	Advanced	
Occupational Guidance	3		
Elective	3		
Military Science 413	3		
Advanced			
	15 or 18		15 or 18

TWO-YEAR COURSE—SECRETARIAL SCIENCE

FIRST YEAR

First Semester	Hrs.	Second Semester	Hrs.
English 113	3	English 123	3
Grammar and Composition		Reading and Composition	3
Social Science 113	3	Social Science 123	3
Introduction to Social Science		Introduction to Social Science	2
Bus. Adm. 232	2	Bus. Adm. 242	2
Typewriting		Typewriting	3
Business Mathematics 113 or		Mathematics 183	3
Math. 173	3	Applied Mathematics	3
Orientation 103	3	Economics 203	3
Physical Education 111	1	Survey of Economics	1
Freshman Practice or		Physical Education 121	1
Military Science 111	1	Freshman Practice or	1
Elementary		Military Science 121	1
Elective	3	Elementary	3
	18	Elective	3
			18

SECOND YEAR

First Semester	Hrs.	Second Semester	Hrs.
Bus. Adm. 253	3	Bus. Adm. 263	3
Shorthand (Lab. Period)		Shorthand (Lab. Period)	4
Bus. Adm. 254	4	Bus. Adm. 264	4
Principles of Accounting	2	Principles of Accounting	3
Bus. Adm. 372	2	Sociology 223	3
Advanced Typing	2	Introduction to Sociology	2
Bus. Adm. 272	3	Bus. Adm. 282	5
Secretarial Practice	3	Secretarial Practice	5
Sociology 213	3	Elective	5
Introduction to Sociology	3		
Elective	3		
	17		17

DESCRIPTION OF COURSES

BUSINESS ADMINISTRATION

113-123. SOCIAL SCIENCE. (3-0) *Credit 3.* I and II. Introduction to the Social Sciences.

113. BUSINESS MATHEMATICS. (3-0) *Credit 3.* The simpler exercises and problems of everyday business calculations.

143. INTRODUCTION TO BUSINESS. (3-0) II. The nature of business and its relationship to society; functions common to all business, finance, production, markets, administration and management.

232-242. ELEMENTARY TYPENWRITING. (0-5) *Credit 2.* I and II. Develop the sense of touch, master the ordinary vocabulary and proper techniques in the operation of all mechanical parts of the machine.

253-263. SHORTHAND. (3-0) *Credit 3*. I and II. Thorough knowledge of the fundamental principles of Gregg Shorthand; emphasis on dictation and transcription.

254-264. ACCOUNTING. (3-2) *Credit 4*. I and II. Basic accounting principles and practices.

273. FILING AND RECORD KEEPING. (3-0) *Credit 3*. II. The principles of alphabetic, numeric, geographic and subject filing.

272-282. SECRETARIAL PRACTICE. (2-1) *Credit 2*. I and II. Correlation of business skills with other duties of a secretary. Prerequisites: B. A. 232, 263.

312-322. OFFICE MACHINES. (0-4) *Credit 2*. I and II. An opportunity to attain proficiency in the operation of office machines. Prerequisites: B. A. 242, 263.

313. MARKETING PRINCIPLES AND PRACTICES. (3-0) I. An introduction to the fundamentals of marketing. It will include a study of products and activities of handling and distribution of commodities in marketing enterprises.

353. ADVANCED SHORTHAND. (3-0) *Credit 3*. I. Dictation and typed transcription.

354-364. INTERMEDIATE ACCOUNTING. (3-2) *Credit 4*. I and II. Theory and problems of valuation of assets; application of funds; corporation accounts and statements; and the interpretation of accounting statements. Prerequisite B. A. 254-264.

363. SALESMANSHIP. (3-0) *Credit 3*. II. Prerequisite: Economics 213, 223. The approach to selling, how to meet objections, arouse desires and close a sale.

372-382. ADVANCED TYPEWRITING. (0-5) *Credit 2*. I and II. Development of skill in typewriting.

423. (Educ. 333A) TEACHING OF BUSINESS SUBJECTS. (3-0) *Credit 3*. II. Recent trends in teaching typewriting, shorthand, use of office machines, and commercial subjects on high School level.

453. PRINCIPLES OF INSURANCE. (3-0) *Credit 3*. I. Prerequisite: B. A. 343, Economics 213, 323. Theory and practice of principal types of insurance.

463. BUSINESS LAW. (3-0) *Credit 3*. I. Prerequisite: Nine hours in Economics. Fundamental principles of law most frequently involved in business transactions.

473. OCCUPATIONAL GUIDANCE. (3-0) *Credit 3*. I and II. Survey of occupational shifts throughout the country and the agencies necessary for training, placing and improving employees.

493-6. BUSINESS APPRENTICESHIP. *Credit 3-6*. I and II. Required of B. A. Majors. Students practice business fundamentals for a period of two months.

ECONOMICS

173-183. INTRODUCTION TO GEOGRAPHY. (3-0) *Credit 3*. I and II. General introduction to the field of geography.

203. SURVEY OF ECONOMICS. (3-0) *Credit 3*. I or II. Study of production, consumption and other economic institutions.

213. PRINCIPLES OF ECONOMICS. (3-0) *Credit 3*. I. Basic economic principles as applied to contemporary economic institutions; determination of business and industrial organization; pricing, value, money and banking; and international trade and exchange.

223. ECONOMIC PROBLEMS. (3-0) *Credit 3*. II. Application of economic principles to current economic problems and institutions; monopoly, business cycles, labor problems, public expenditures and revenue, public utilities, and comparative economics. Prerequisite: Economics 213. (This course is a prerequisite to all courses in economics numbered 300 and above).

303. PUBLIC FINANCE AND TAXATION. (3-0) *Credit 3*. Introduction to the field of government finance; character and growth of public expenditures; public debt creation and fiscal policy; theories, principles and problems of taxation. Prerequisite: Economics 223.

323. ECONOMICS OF CONSUMPTION. (3-0) *Credit 3*. II. Relations between consumption, saving, social income and its fluctuations. Prerequisite: Economics 223.

333. ECONOMIC HISTORY. (3-0) *Credit 3*. I. The development of agriculture, commerce, industry and transportation from Colonial times to the present. Prerequisite: Economics 213 and 223.

343. PERSONNEL MANAGEMENT. (3-0) *Credit 3*. II. The development and importance of employee-employer relationships. Prerequisite: Economics 213-223.

353. ECONOMIC STATISTICS. (2-2) *Credit 3*. I. Techniques of gathering, presenting, analysing and interpreting numerical data. Prerequisite: Economics 213 and 223.

363. BUSINESS ORGANIZATION. (3-0) *Credit 3*. II. A critical discussion of the theory and practice of Business Organization, including an analysis of executive ability, departmentation and commodity bases of organization and centralization.

401. SENIOR RESEARCH. (1-0) *Credit 1*. I or II. Required of all economic and business administration majors. Techniques of research; credit allowed upon satisfactory completion of student's study.

403. MONEY AND BANKING. (3-0) *Credit 3*. I. A study of the theory of money and banking with emphasis upon monetary policy. Special consideration is given to the implication of methods, monetary and banking control.

413. LABOR LEGISLATION. (3-0) *Credit 3*. I. Protective legislation dealing with wages, hours, child labor, old age benefits with unemployment compensation. Prerequisite: 213-223 and 343.

453. LABOR PROBLEMS. (3-0) *Credit 3*. II. The evolution of management union agreements since the turn of the twentieth century. Prerequisite: Economics 413.

463. MODERN ECONOMIC THOUGHT. (3-0) *Credit 3*. II. Analysis and appraisal of recent and contemporary economists and their contribution to public policy. Prerequisite: Economics 323, 413.

503. ECONOMIC THEORY. (3-0) *Credit 3*. II. Analysis of the problems of pricing production, employment and distribution under competitive and noncompetitive conditions. Prerequisite: Graduate standing or senior standing with major in Economics. Prerequisite: Economics 333 and 343.

593. POST-WAR ECONOMIC POLICIES. (3-0) *Credit 3.* Full employment, investment, foreign trade and finance, price control and fiscal policies. Prerequisite: Economics 213-223 and 323.

DEPARTMENT OF EDUCATION

MAJOR REQUIREMENTS

Students wishing to prepare themselves for teaching in the elementary school should follow the suggested program for a major in Elementary Education. This program includes the necessary work in General Education, Professional Education (including student teaching), endorsements and electives to meet the Texas Education Agency's requirements for a Permanent Elementary Certificate. Elementary Education majors should select their minor from an area that is related to their teaching field (English, Social Studies, Sciences, Mathematics, Commercial Subjects, Music, Music Art, Library Service, Health and Physical Education, etc.) They will find it valuable to be able to play simple piano accompaniments.

Students wishing to prepare themselves for teaching in the secondary school should follow the suggested program for majoring in one of the usual high school fields like Language Arts (English), Social Studies (History), Science (General Science, Biology, Chemistry), Mathematics, Commercial Subjects, Music, Health and Physical Education, Industrial Arts, Agriculture, Homemaking Education, or Vocational Industrial Education. It is advisable to have a minor which may be used as a second teaching subject.

A "B" average or above must be maintained in major courses.

Each prospective teacher is required to have student teaching experiences which include at least eight weeks in the Campus Training School and a minimum of eight weeks in one of the college approved off campus schools. The student is advised to plan his budget so that he will be able to meet the financial obligations of his student teaching experience. All students who wish to do student teaching during the first semester should file their applications, in the Office of Education, before May 1. Those students who wish to do student teaching during the second semester should file applications not later than November 15.

MINOR REQUIREMENTS

A minor in Elementary Education has the prerequisite of a teaching major in some content field or at least the Professional core (Education 273-283, Education 393, Education 423 and Methods).

The required eighteen semester hours for a minor in Elementary Education are as follows:

Art Education 253-263	6
Elementary School Art	
Music 253-263	6
Elementary School Music	
Education 473	3
Elementary School Sciences	
Education 463	3
Elementary School Reading and Literature	

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SUGGESTED PROGRAM FOR A MAJOR IN ELEMENTARY EDUCATION

FRESHMAN YEAR

First Semester	Hrs.	Second Semester	Hrs.
English 113	3	English 123	3
Grammar and Composition		Reading and Composition	
Orientation 103	3	Geography 173	3
General Orientation		Economic Geography	
Social Science 113	3	Social Science 123	3
Introduction to Social Science or		Man and Society	
History 113	3	Mathematics 183	3
European 1500-1815		Applied Mathematics	
Mathematics 173	3	Natural Science 123	3
Applied Mathematics or		College Science	
Mathematics 113	3	Physical Education 121 (Women)	1
College Algebra		Freshman Practice or	
Natural Science 113	3	Military Science 121 (Men)	1
College Science		Elementary	
Physical Education 111 (Women)	1	Industry	2
Freshman Practice or			
Military Science 111 (Men)	1		
Elementary			
Industry	2		
	—		—
	18		18

SOPHOMORE YEAR

First Semester	Hrs.	Second Semester	Hrs.
Foreign Language 113	3	Foreign Language 123	3
Elementary French or		Elementary French or	
Elementary Spanish		Elementary Spanish	
English 213	3	English 223	3
Public Speaking		World Literature	
Music 253	3	Music 263	3
Elementary School Music		Elementary School Music	
Art Education 253	3	Art Education 263	3
Elementary School Art		Elementary School Art	
Education 273	3	Education 283	3
Pupil Growth and Development		Physical Education 221 (Women)	1
Physical Education 211 (Women)	1	Sophomore Practice or	
Sophomore Practice or		Military Science 221 (Men)	1
Military Science 211 (Men)	1	Elementary	
Elementary			
	—		—
	16		16

JUNIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Political Science 263	3	Political Science 203	3
American National Government		American State Government	
Physical Education (Theory) 223	3	Physical Education (Theory) 233	3
Personal Hygiene		Methods and Materials for Teaching	
Education 393	3	Health and Physical Education in	
Educational Problems		Elementary Schools	
Education 363	3	Education 473	3
Elementary School Curriculum		Elementary School Science	
Education 453	3	Education 483	3
Teaching the Tool Subject		Elementary School Social Studies	
Military Science 313 (Men)	3	Education 463	3
Advanced or		Elementary School Reading and	
		Literature	
		Military Science 323 (Men)	3
		Advanced or	
	15 or 18		15 or 18

SENIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Education 423	3	Electives (Minor)	12
School and Community Relations		Military Science 423 or Elective	3
Education 306	6	Advanced	
Student Teaching in Elem. Schools			
Military Science 413 or Elective	3		
Advanced			
Elective	3		
	15		15

SUGGESTED ELECTIVES

Education 443	3	History 453	3
Tests and Measurements		Contemporary U. S. History	
English 303	3	The Family	
Journalism		Sociology 303	3
Sociology 213-223	6	Physical Education 261	1
Introductory		Folk Dancing	
Biology 134	4		
General Botany			

DESCRIPTION OF COURSES

ORIENTATION

103. GENERAL ORIENTATION. (3-0) *Credit 3.* I or II. Required for entering freshmen in School of Arts and Sciences; problems of entering students.

PSYCHOLOGY

103. ELEMENTARY PSYCHOLOGY. (3-0) *Credit 3.* I or II. Not accepted for credit in education. Principles of human behavior and their applications.

EDUCATION

MUSIC 253-263. ELEMENTARY SCHOOL MUSIC METHODS. (6-0) *Credit 6.* (Both semesters). Grade school music methods and materials; care and development of child voice.

223. PROBLEMS OF THE RURAL TEACHER. (3-0) *Credit 3.* I or II. Daily program making; combining classes, health, and community relations in the rural elementary school.

ART EDUCATION 253-263. ELEMENTARY SCHOOL ART. (6-0) *Credit 6.* (Both semesters). Elements and principles of art as forms of creative expression in relation to the child, to the classroom and in connection with the entire school curriculum; techniques in developing creative ability.

273-283. PUPIL GROWTH AND DEVELOPMENT. (6-0) *Credit 6*. (Both semesters). Comprehensive study of pupil growth and development from conception through maturity; scientific understandings about physical, motor, language, emotional, social and intellectual development as they affect the learning process.

293. CLASSROOM MANAGEMENT. (3-0) *Credit 3*. II. Classroom organization and control.

303-306. STUDENT TEACHING (Elementary School). *Credit 3 or 6*. Prerequisites: A "B" average in Education 273-283, Education 263, Education 393, and all required methods courses for a major in Elementary Education. I and II. Supervised on-campus and off-campus student teaching. The application for admission to the student teaching program is to be filed with the Head of the Department of Education at least two months prior to the opening of the semester in which the student desires a student teaching assignment.

313. PRINCIPLES OF SECONDARY EDUCATION. (3-0) *Credit 3*. Prerequisites: Education 273-283. I and II. Development of secondary school and its organizations.

323. HIGH SCHOOL CURRICULUM. (3-0) *Credit 3*. Prerequisites: Education 273-283. I. Principles of the organization, and construction of the high school curriculum and methods for its implementation.

333. TEACHING HIGH SCHOOL SUBJECTS. (3-0) *Credit 3*. Prerequisite: Education 273-283. I or II.

- A. Teaching Business Subjects in the High School (See Business Administration 423—Teaching Business Subjects).
- B. Teaching English in the High School (See: English 462—Teaching of English).
- C. Teaching Mathematics in the High School (See: Mathematics 443—Methods of Teaching Mathematics) in Elementary and High Schools.
- D. Teaching Music in the High School (See: Music 383—High School Methods).
- E. Teaching Science in the High School (See: Biology 333 or 733 or Chemistry—Materials and Methods for Science Students).
- F. Teaching Physical Education in the High School (See: Physical Education 343—Methods and Materials in Physical Education).
- G. Teaching Social Studies in the High School (See: Sociology 383: Methods of Teaching Social Studies in the High School).

343. CHILD PSYCHOLOGY. (3-0) *Credit 3*. I or II. The child from prenatal period to the beginning of adolescence; major problems in child development.

353. ADOLESCENT PSYCHOLOGY. (3-0) *Credit 3*. I and II. Problems of individuals from pubescence to maturity.

363. ELEMENTARY SCHOOL CURRICULUM. (3-0) *Credit 3*. Prerequisite: Education 273-283. I. Encompasses the all-round growth of children; the acquisition of skills, attitudes, ideals, interest, concepts, and information that will help children to improve their adjustment.

373. VOCATIONAL GUIDANCE. (3-0) *Credit 3.* I and II. Function and scope of guidance; organization and techniques for guidance in the school.

383. EDUCATIONAL PSYCHOLOGY (3-0) *Credit 3.* I and II. Educationally significant factors involved in the interaction of pupils, teachers, administrators, and community.

393. EDUCATIONAL PROBLEMS. (3-0) *Credit 3.* Prerequisite: Education 273-283. I. Application of educational principles to the theoretical and practical problems involved in elementary and secondary school teaching.

403-406. STUDENT TEACHING (Secondary School). *Credit 3-6.* Prerequisites: Education 273-283, Education 393, High School Methods Courses, and recommendation of major advisor. I and II. Supervised on-campus and off-campus student teaching. Students should make application for admission to supervised student teaching two months prior to time of teaching assignment.

423. SCHOOL AND COMMUNITY RELATIONS. (3-0) *Credit 3.* Restricted to student teachers. Problems of daily program making that grow out of the interaction between the community (rural and urban) and the school.

443. TESTS AND MEASUREMENTS. (3-0) *Credit 3.* I and II. Principles of making and using tests; use of standardized tests.

453. TEACHING THE TOOL SUBJECTS. (3-0) *Credit 3.* Prerequisites: Education 273-283. Methods and materials in teaching the tool subjects, reading, writing and arithmetic; the integrated language arts program is included.

463. ELEMENTARY SCHOOL READING AND LITERATURE. (3-0) *Credit 3.* Prerequisites: Education 273-283, Education 363, and Education 393. Methods and materials used in directing learning to read; increasing abilities, improving interests and taste, and evaluation of reading program.

473. ELEMENTARY SCHOOL SCIENCE. (3-0) *Credit 3.* Prerequisite: Education 273-283, Education 363, and Education 393. Actual experiences in making science more meaningful through use of community resources and understanding basic science concepts; methods of teaching, selecting and organizing subject matter, laboratory experiences and individual projects.

483. ELEMENTARY SCHOOL SOCIAL STUDIES. (3-0) *Credit 3.* Prerequisite: Education 273-283, Education 363, and Education 393. Improving social living, emphasis upon the place of democratic values and processes, purposes, content and organization of subject matter, development of materials with experiences as a continuous process in appraising the child's learning in terms of social experiences.

DEPARTMENT OF ENGLISH— MODERN FOREIGN LANGUAGE

MAJOR REQUIREMENTS

For the degree of Bachelor of Arts with a major in English, thirty semester hours, in addition to English 463, the Teach-

ing of English, which is counted as Education, are necessary. Courses are prescribed as follows:

English 113, 123—Composition	6	hours
English 213—Public Speaking	3	hours
English 223—Introduction to Literature	3	hours
English 303—Journalism	3	hours
English 333—Romantic Movement	3	hours
English 343—Victorian Literature	3	hours
English 353—English Language	3	hours
English 363—American Literature	3	hours
English 423—Shakespeare	3	hours

MINOR REQUIREMENTS

For a minor in English, twenty-one semester hours in addition to English 463, the Teaching of English, which is counted as Education, are necessary. Courses are prescribed as follows:

English 113, 123—Composition	6	hours
English 213—Public Speaking	3	hours
English 223—Introduction to Literature	3	hours
English 353—English Language	3	hours
English 363—American Literature	3	hours
English 303—Journalism	3	hours

Students are expected to maintain an average of "B" in their English subjects in the freshman and sophomore years and "B" or above in the major field in each of the remaining years.

SUGGESTED FOUR-YEAR PROGRAM FOR A MAJOR IN ENGLISH

FRESHMAN YEAR

First Semester	Hrs.	Second Semester	Hrs.
English 113—Grammar Comp.	3	English 123—Reading and Composition . . .	3
Education 103—Or Orien. or Equivalent ...	3	Education 113	3
Natural Science 113—College Science	3	Introduction to Education and Teaching	
Soc. Sci. 113—Introduction to Soc. Sci.	3	Mathematics 123—Trig. or Math. 183	3
Mathematics 173 or 113	3	Soc. Sci. 123—Introduction to Soc. Sci.	3
Elements of Applied Mathematics or College Algebra		Natural Science 123—College Science	3
Physical Education (Women) 111	1	Physical Education 121 (Women)	1
Freshman Practice		Freshman Practice	
Military Science 111—Elementary	1	Military Science 121—Eleluntary	1
Industry	2	Industry	2
	18		18

SOPHOMORE YEAR

First Semester	Hrs.	Second Semester	Hrs.
Foreign Language 113	3	Foreign Language 123	3
Elementary French or Elementary Spanish		Elementary French or Elementary Spanish	
Political Science 263	3	Political Science 203	3
American National Government		American State Government	
Physical Education (Theory) 223	3	English 223	3
Introduction to Physical Education		World Literature	
Phys. Ed. Practice 211 (Women)	1	Physical Ed. 221 (Women)	1
Sophomore Practice		Sophomore Practice	
Military Science (Men) 211	1	Military Science (Men) 221	1
Elementary		Elementary	
English 213	3	Education 283	3
Public Speaking		Pupil Growth and Development	
Education 273	3	Physical Education 203	3
Pupil Growth and Development		Personal Hygiene	
	16		16

JUNIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Physical Education 403	3	Foreign Language 223	3
Playground and Community Recreation		Reading (Spanish)	
Foreign Language 213	3	(French) Advanced Grammar and Reading and Grammar Review	
Advanced Grammar and Reading		English 363	3
English 303	3	American Literature	
Journalism		English 343	3
English 353	3	Victorian Literature	
The English Language		Elective	3
Education 393	3	Education 423	3
Educational Problems		School and Community Relations	
	15		15

SENIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
English 463 (Ed 333B)	3	Elective	3
Teaching of English		Education 383	3
History 463	3	Educational Psychology	
History of the Negro in America		Education 406	6
English 333	3	Practice Teaching	
Romantic Movement		Minor	3
Minor	3		
English 423	3		
Shakespeare			
	15		15

N. B.—Courses on the Freshman and Sophomore levels must be taken in the proper sequence.

DESCRIPTION OF COURSES

ENGLISH

103. REMEDIAL ENGLISH. (3-0) *Credit 3*. Required of students notably deficient in the writing of English; group and individual guidance to develop background for the student to perform effectively on the freshman college level.

At the end of the first nine weeks of the semester, students who demonstrate ability to use the language arts effectively will be transferred to one of the regular sections of freshman English 113.

133. TRADE ENGLISH. (3-0) *Credit 3*. I. Principles of effective business correspondence.

143. TRADE ENGLISH. (3-0) *Credit 3*. II. Continuation of 133; more composition.

113. GRAMMAR AND COMPOSITION. (3-0) *Credit 3*. I. Intensive review of functional grammar; practice in principles of written composition.

123. READING AND COMPOSITION. (3-0) *Credit 3*. II. Continuation of 113. Written work based on provocative readings and periodical literature.

213. PUBLIC SPEAKING. (3-0) *Credit 3*. I and II. Training in fundamental aspects of speech in various types of platform presentation and in public discussion.

223. INTRODUCTION TO LITERATURE. (3-0) *Credit 3*. I and II. Reading for understanding and enjoyment, of literature rich in suggestions for self-revelation and for the forming of desirable social attitudes; emphasis upon the development of effective reading habits.

303. JOURNALISM. (3-0) *Credit 3.* I and II. Theory and practice in different forms of modern journalism; practical work.

333. THE ROMANTIC MOVEMENT. (3-0) *Credit 3.* Poetry of period with emphasis upon poetry of Byron, Keats, Wordsworth, and Coleridge.

343. VICTORIAN LITERATURE. (3-0) *Credit 3.* I and II. Representative selections from leading poets and prose writers of the period.

353. ENGLISH LANGUAGE. (3-0) *Credit 3.* I. Sounds, grammar, vocabulary of the language. Must be taken while in residence for credit towards major or minor, (For majors and minors only).

363. AMERICAN LITERATURE. (3-0) *Credit 3.* II. Survey course; study of literary tendencies in representative selections from chief American writers.

423. SHAKESPEARE. (3-0) *Credit 3.* I. Brief introduction to Shakespearean drama, the character and conditions of the age; detailed study of representative plays of Shakespeare.

463. Equivalent to Ed. 333. TEACHING OF ENGLISH. (3-0) *Credit 3.* II. Methods and materials in teaching of English in junior and senior high schools; limited opportunity for observation and practice teaching. Credit recorded as work in Education. Available only to seniors.

473. WRITING CLINIC. (3-0) *Credit 3.* English fundamentals; aims to increase both oral and written English proficiency of the prospective teacher of English.

MODERN FOREIGN LANGUAGE

No major is offered.

For a minor in language, eighteen semester hours in one language are required; six hours of which must be in courses numbered 300 or above.

DESCRIPTION OF COURSES

FRENCH

113, 123. ELEMENTARY FRENCH. (3-0) *Credit 3.* I and II. The linguistic foundation of the French language; mastery of phonetics; special emphasis on verbs and idiomatic usage.

213, 223. READING AND GRAMMAR REVIEW. (3-0) *Credit 3.* I and II. French conversation, idioms, and verb drill; reading material; simple principles of French grammar and syntax; outside reading required. Prerequisite: Eighteen hours of English.

313. GRAMMAR REVIEW AND METHODS. (3-0) *Credit 3.* I. Methods of language instruction; review of salient principles of grammar and pronunciation. Prerequisite: French 223.

323. INTRODUCTION TO CLASSIC AND ROMANTIC LITERATURE. (3-0) *Credit 3.* Representative selections from French literature and classic and romantic periods; additional readings and reports are assigned. Prerequisite: French 223.

403. MOLIERE. (3-0) *Credit 3.* I or II. Representative work of Moliere; additional readings from the author are assigned. Prerequisite: French 223.

503. INTRODUCTION TO ROMANTICISM. (3-0) *Credit 3.* I or II. Representative work of Hugo; additional readings and reports are assigned. Prerequisite: French 223.

SPANISH

113-123. ELEMENTARY SPANISH. (3-0) *Credit 3.* I and II. Principles of pronunciation and grammatical construction; principles previously learned; and reproduction of materials from dictation.

213-223. ADVANCED GRAMMAR AND READING. (3-0) *Credit 3.* I and II. Grammar Review; idioms and idiomatic usage, conversation, memorization and practice in reading. Reading and translation. Prerequisite: Spanish 123 or equivalent.

313. GRAMMAR REVIEW AND METHODS. (3-0) *Credit 3.* I. Methods of language instruction; salient principles of grammar and pronunciation. Prerequisite: Spanish 223.

323. SPANISH PROSE AND FREE COMPOSITION. (3-0) *Credit 3.* II. A representative novel is used as the basis of classroom reading, translation, discussion, and composition work. Prerequisite: Spanish 223.

DEPARTMENT OF HISTORY SOCIAL SCIENCE, POLITICAL SCIENCE AND PHILOSOPHY

Students majoring in History are required to present thirty hours in the course offerings as listed on the following pages. The total offering is designed to take the student into most of the phases of modern historical development. The student should arrange to begin History 402 in the advanced Junior year.

Minors in history must present eighteen hours in selected course offerings in consultation with the advisor of the Department.

Those who desire a teaching major in the Social Sciences should follow the suggested program for Social Science majors. A minimum of 12 semester hours in history is required. Suggested courses from allied Social Sciences are listed in the program.

Those desiring a minor in the Social Sciences must have at least 18 hours in the social sciences including 6 hours in American History, Sociology 263, Sociology 343, and Economics 203.

In the interest of the maintenance of the proper academic standards, the Department has ruled that all students majoring or minoring in this department must maintain in the lower college courses of the Department (Freshman and Sophomore) the average of "C" and in the upper college courses (Junior and Senior) the average of "B."

SUGGESTED PROGRAM FOR HISTORY MAJORS

FRESHMAN YEAR

First Semester	Hrs.	Second Semester	Hrs.
Orientation 103	3	English 123—Reading and Composition ...	3
English 113—Grammar and Composition ..	3	Mathematics 183 or 123	3
Mathematics 173 or 113	3	Elements of Applied Math. or	
Elements of Applied Mathematics		Trigonometry	3
or College Algebra		Economics 173	3
History 113—Europe 1500-1815	3	Geography	3
Natural Science 113—College Science	3	History 123—Europe 1815-1914	3
Physical Education (Women) 111	1	Natural Science 123—College Science	3
Freshman Practice		Physical Education (Women) 121	1
Military Science (Men) 111—Elem.	1	Freshman Practice	
Industry	2	Military Science (Men) 121—Elem.	1
		Industry	2
	18		18

SOPHOMORE YEAR

First Semester	Hrs.	Second Semester	Hrs.
Foreign Language 113	3	Foreign Language 123	3
Elem. French or Spanish		Elem. French or Spanish	
**Political Science 213	3	Sociology 263	3
Political Parties and Electoral Prac.		General Sociology	3
Political Science 263—National Gov.	3	Political Science 203	3
History 213—The United States	3	State Government	3
Military Science 211 (Men)—Elem.	1	Economics 203	3
Physical Education (Women) 211	1	Survey of Economics	
Sophomore Practice		Military Science 221 (Men)—Elem.	1
Economics 173	3	Physical Education (Women) 221	1
Economic Geography		Sophomore Practice	
	16	Economics 183—Economic Geography	3
			16

JUNIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Foreign Language 213	3	Foreign Language 223	3
Advanced Grammar and Reading		Advanced Grammar and Reading	
English 213	3	English 223	3
Public Speaking		World Literature	
**History 303	3	*Political Science 313	3
England 1485 to Present		Principles of Political Science	
Elective (Minor)	3	**History 323	3
**History 313	3	The New South 1865	
Sectionalism and the Civil War		**Electives (Minor)	6
*History 333	3	*History 363	3
American Foreign Relations		Historical Methods	
*History 433	3	*History 503	3
Economic History of the U. S.		History of the Far East	
1492 to Present		Military Science 323	3
Military Science 313	3	Advanced	
Advanced			
	15 or 18		15 or 18

* Odd year
** Even year

SENIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
*History 423	(3)	*History 373	(3)
Seminar in American History		Problems in Latin American History	
*History 353	(3)	**History 453	3
Europe 1419 to Present		Contemporary United States	
History 402	2	Political Science 403	3
Historical Investigative Paper		Seminar in International	
History 463	3	Organizations	
History of the Negro in America		Electives (Minor)	(9)
*Electives (Minor)	4	Military Science 423	3
**Electives (Minor)	10	Advanced	
Military Science 413	3		
Advanced			
	15 or 18		15 or 18

SUGGESTED PROGRAM FOR SOCIAL SCIENCE MAJORS

FRESHMAN YEAR

First Semester	Hrs.	Second Semester	Hrs.
Orientation 103	3	Economics 173 or 183	3
English 113	3	Geography	
Grammar and Composition		English 123	3
Mathematics 173	3	Reading and Composition	
Elements of Applied Mathematics		Mathematics 183	3
History 143	3	Elements of Applied Mathematics	
Survey of Civilization, to 1715		History 153	3
Natural Science 113	3	Survey of Civilization, 1715	
College Science		to Present	
Military Science 111 (Men)	1	Natural Science 123	3
Elementary or		College Science	
Physical Education (Women) 111	1	Military Science 121 (Men)	1
Freshman Practice		Elementary or	
	16	Physical Education (Women) 121	1
			16

SOPHOMORE YEAR

First Semester	Hrs.	Second Semester	Hrs.
Foreign Language 113	3	Foreign Language 123	3
French or Spanish		French or Spanish	
Education 273	3	Political Science 203	3
Pupil Growth and Development		State Government	
Political Science 263	3	Education 283	3
National Government		Pupil Growth and Development	
History 213	3	History 223	3
United States 1492-1865		United States 1865 to Present	
English 213	3	English 223	3
Public Speaking		Introduction to Literature	
Military Science 211 (Men)	1	Military Science 221 (Men)	1
Elementary or		Elementary or	
Physical Education 211 (Women)	1	Physical Education 221 (Women)	1
Sophomore Practice		Sophomore Practice	
	16		16

JUNIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Foreign Language 213	3	Foreign Language 223	3
French or Spanish		French or Spanish	
Health Education 203	3	Sociology 263	3
Personal Hygiene		General Sociology	
Political Science 433	3	Elective (Minor) or Education 323	3
American Foreign Relations		High School Curriculum	
Economics 203	3	Philosophy 323	3
Principles		Ethics	
Elective (Minor) or Education 393	3	Minor	3
Problems or Philosophy 313		Military Science 323 (Elective) (Men)	3
Military Science 313 (Elective) (Men)	3	Advanced	
Advanced			
	18		18

SENIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
History 353	3	Health Education 353	3
Recent Europe		Public School and Community	
Sociology 383	3	Hygiene or	
Teaching Social Studies or		Sociology 343	
Education 333	3	Modern Social Problems	
Education 443 (Elective)	3	Education 423	3
Tests and Measurements		School and Community	
(Elective) Minor	6	History 463	3
Military Science 413 (Elective) (Men)....	3	Negro History or	
Advanced		Sociology 323	
		Race Relations	
		Education 406	6
		High School Practice Teaching	
		Military Science 423 (Elective) (Men) ...	3
		Advanced	
	—		—
	18		18

DESCRIPTION OF COURSES

EUROPEAN HISTORY

103. **MEDIEVAL EUROPE.** (3-0) *Credit 3.* Europe from the fall of Rome to 1500; lectures, special reports, selected readings; open on demand; consent of instructor.

113. **EUROPE 1500-1815.** (3-0) *Credit 3.* I. Europe from the Protestant Reformation to the congress of Vienna. (Lectures, note books, quiz section; open to all Freshmen; required of all majors and minors in the field and serves as the apprentice course in History Teaching; offered every year.)

123. **EUROPE, 1815-1914.** (3-0) *Credit 3.* II. Europe from the fall of Napoleon to World War I. (Lectures, note books, quiz sections. Open to all Freshmen; required of all majors and minors in the field and serves as the apprentice course in History Teaching; offered every year.)

143. **SURVEY OF CIVILIZATION, TO 1715.** (3-0) *Credit 3.* Ideals and Institutions connected with the political, social and economic life during periods of Greece, Rome, Feudalism, Renaissance, Reformation. Lectures, reading, test, special reports. (For Social Science Majors).

153. **SURVEY OF CIVILIZATION, 1715 TO THE PRESENT.** (3-0) *Credit 3.* Ideas and institutions with political, social and economic life in the period of rational liberalism and nationalism, the French Revolution, Nineteenth Century English Liberalism, Nationalistic unifications, socialism, imperialism, and Twentieth Century Fascism and Democracy. Lectures, readings, test and special reports. (For Social Science Majors.)

303. **ENGLAND, 1485 TO THE PRESENT.** (3-0) *Credit 3.* II. Modern Britain from the Tudors to the Labor Government. (Lectures, discussions, special reports; offered in odd years. Junior standing or consent of instructor.)

353. **EUROPE, 1914 TO THE PRESENT.** (3-0) *Credit 3.* I. 20th Century Europe in its world revolutionary setting. (Five lectures; the Heritage, Religion, Education, Big Government, Economic Nationalism.) Discussions, special reports. Offered in odd years. Junior standing or consent of the instructor.

AMERICAN HISTORY (GENERAL)

213. THE UNITED STATES, 1492-1837. (3-0) *Credit 3*. I. American Development from the period of discovery to the close of the Jackson Presidency. Lectures, discussions, special maps and written reports; offered first semester yearly. Sophomore standing. Required of all majors and minors.

223. THE UNITED STATES, 1837-1898. (3-0) *Credit 3*. II. Prerequisite: History 213. Surveys period of Bourgeois revolution and rise of group democracy in America. (Lectures, discussions, special map and written reports; offered second semester yearly.) Sophomore standing. Required of all majors and minors.

433. AMERICAN FOREIGN RELATIONS, 1775 TO PRESENT. (3-0) *Credit 3*. I and II. See Political Science 433. Prerequisite: History 213 and 233 and any course in Political Science.

453. CONTEMPORARY UNITED STATES, 1898 TO THE PRESENT. (3-0) *Credit 3*. II. Prerequisite: 12 hours of History or consent of instructor; surveys 20th century American development. (Lectures, discussions, special reports. Offered in odd years.)

AMERICAN HISTORY (REGIONAL AND SPECIAL)

313. SECTIONALISM AND THE CIVIL WAR, 1700-1865. (3-0) *Credit 3*. I. Taught from regional hypothesis as applied to American development 1700-1865. (Lectures, discussions, special reports, Junior standing. Offered even years).

323. THE NEW SOUTH, 1865. (3-0) *Credit 3*. II. Relation of the South to national development since 1860. (Lectures, discussions, special reports. Junior standing. Offered in even years.)

333. ECONOMIC HISTORY OF THE UNITED STATES, 1492 TO PRESENT. (3-0) *Credit 3*. I. Surveys agriculture, commerce, industry, banking, business organization, and labor. Prerequisites: Six hours of economics or History 213 and 223. (Lectures, discussions, special reports. Offered on demand.)

SPECIAL AND MISCELLANEOUS

363. HISTORICAL METHODS. (3-0) *Credit 3*. II. Historical Techniques and the relation of History to allied Social Sciences. (Lectures, laboratory exercises, special reports. Required of all majors. Prerequisite: Junior standing.)

402. HISTORICAL INVESTIGATIVE PAPER. (2-0) *Credit 2*. II. Open to advanced Juniors and Seniors. Required of all majors in History for graduation credit; allowed upon satisfactory completion of proposed study agreed upon in consultation with advisor.

503. HISTORY OF THE FAR EAST. (3-0) *Credit 3*. I. Political institutions of China, Japan, etc. Open to upper classmen with History 113 and 123, nine hours of Political Science, or consent of instructor.

423 or 703. SEMINAR IN AMERICAN HISTORY, WITH SPECIAL REFERENCE TO TEXAS AND THE SOUTHWEST. (2-0) *Credit 3*. I. Regional problems in specific time areas. Senior status. Special research reports.

373. or 743. PROBLEMS IN LATIN AMERICAN HISTORY. (2-0) *Credit 2*. I. Seminar. Special problems in specific time areas. Advanced Junior or Senior status. Special research reports.

HISTORY OF THE NEGRO

463. HISTORY OF THE NEGRO IN AMERICA. (3-0) *Credit 3.* I or II. African background, Slavery, Freedom and Freeman; minority techniques in the contribution to American Life. Prerequisites: Upper college status.

422. CULTURAL CONTRIBUTIONS OF THE NEGRO. (2-0) *Credit 2.* II. Artistic, scientific, and other cultural contributions. Prerequisites: Upper college status.

POLITICAL SCIENCE

Social Science majors concentrating in Political Science are required to take at least 30 hours of Political Science. Course 363 is required of all Political Science majors, or a Methods Course in History may be substituted, History 363. Political Science majors must also take at least one semester course in four of these six fields: American Government, Foreign Government, Political Parties, Methodology and Theory, Public Administration, and International law and Relations. Students who are eligible and desire to concentrate in Political Science should consult with the Chairman of the Department.

POLITICAL SCIENCE MAJORS

FRESHMAN YEAR

First Semester	Hrs.	Second Semester	Hrs.
Education 103 (Orientation)	3	English 123 Reading and Composition	3
English 113 Grammar and Composition	3	Economics 173 Geography	3
History 143 Survey of Western Civilization to 1715	3	History 153 Survey of Western Civilization, 1715 to Present	3
Natural Science 113 College Science	3	Mathematics 183 or 123 Elements of Applied Math. or Trigonometry	3
Mathematics 173 or 113 Elements of Applied Mathematics or College Algebra	3	Natural Science 123 College Science	3
Military Science (Men) 111 Elementary	1	Military Science 121 (Men) Elementary	1
Physical Ed. Practice 111 (Women) Freshman Practice	1	Physical Ed. Practice 121 (Women) Freshman Practice	1
Industry	2	Industry	2
	<u>18</u>		<u>18</u>

SOPHOMORE YEAR

First Semester	Hrs.	Second Semester	Hrs.
Foreign Language 113 Elementary French or Elementary Spanish	3	Foreign Language 123 Elementary French or Elementary Spanish	3
Sociology 263 General Sociology	3	Economics 203 Survey of Economics	3
Political Science 263 American National Government	3	Political Science 203 American State Government	3
Political Science 213 Political Parties and Electoral Practices	3	History 223 (Elective) The United States	3
History 213 (Elective) The United States	3	Political Science 243 Municipal Administration	3
Military Science 211 (Men) Elementary or	1	Military Science 221 (Men) Elementary or	1
Physical Education 211 (Women)	1	Physical Ed. Practice 221 (Women)	1
	<u>16</u>		<u>16</u>

JUNIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Foreign Language 213	3	Foreign Language 223	3
Grammar Review and Methods (French) or Advanced Grammar and Reading (Spanish)		Grammar Review and Methods (French) or Advanced Grammar and Reading (Spanish)	
English 213	3	English 223	3
Public Speaking		World Literature	
Health Education 203	3	Health Education 353	3
Personal Hygiene		Public School and Community Hygiene	
Political Science 363	3	Political Science 303	3
Bibliography and Methods of Research		Political Theory or	
Military Science 313	3	Political Science 313	3
Advanced		Introduction to Political Science	
		Military Science 323	3
		Advanced	
		Political Science 423	3
		American Constitutional Law	
	15 or 18		15 or 18

SENIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Political Science 433	3	Political Science 433	3
American Foreign Relations		American Foreign Relations	
Negro History 463	3	Political Science 403	3
Education (Including Practice Teaching)	9	Seminar in International Organizations	
Military Science 413	3	Political Science 453	3
Advanced		Seminar in Problems of Imperialism	
		Electives	6
		Military Science 423	3
		Advanced	
	15 or 18		15 or 18

DESCRIPTION OF COURSES

I. AMERICAN GOVERNMENT

103. POLITICAL SCIENCE. (3-0) *Credit 3.* Government of Texas and United States.

263 and 513. AMERICAN NATIONAL GOVERNMENT. (3-0) *Credit 3.* I or II. The National Government of the United States; required by law in the State of Texas for Graduation and teacher certification; a prerequisite for other courses in Political Science.

203 and 523. AMERICAN STATE GOVERNMENT. (3-0) *Credit 3.* I or II. Continuation of Political Science 263 and accepted to fulfill the six hours required by law; the government of Texas and responsible citizenship; visits to the state legislature.

233. AMERICAN LOCAL RURAL GOVERNMENT. (3-0) *Credit 3.* II. The governmental organization and functions of countries, townships and villages, paying particular attention to rural government and school boards in Texas. Prerequisites: Six hours of Political Science or three hours of Political Science with permission of the instructor.

243. MUNICIPAL ADMINISTRATION. (3-0) *Credit 3.* II. Municipal government and the administrative problems involved in American cities.

413 and 423. AMERICAN CONSTITUTIONAL LAW. (3-0) *Credit 3.* I. and II. The principles of American constitutional law as seen in the leading cases, with special reference to political theories and national development. Prerequisites: Six hours of Political Science.

library service and 12 semester hours in education together with other supporting courses.

Those persons who choose library-service education as a major are expected to select a teaching minor outside the department.

Students interested in this program of study may commence work on it at the sophomore level.

Those wishing to do a minor in library service-education are required to complete, satisfactorily, 18 semester hours in the courses named in the "description of Courses" below.

Courses 213, 223, and 313 are suggested as electives to other majors who are not interested in the "combined major" but who wish to receive some understanding of and proficiency in library methods. Proficiency in typing is required of those who undertake the program.

An average of "B" must be maintained by all majors in library-service education.

SUGGESTED PROGRAM FOR A COMBINED MAJOR IN LIBRARY SERVICE EDUCATION

FRESHMAN YEAR

First Semester	Hrs.	Second Semester	Hrs.
English 113	3	English 123	3
Grammar and Composition		Reading and Composition	
Bus. Adm. 232	2	Education 113	3
Elementary Typing		Introduction to Education	
History 143	3	Mathematics 183 or 123	3
Survey of Civilization		Elements of Applied Mathematics or	
Mathematics 173 or 113	3	Trigonometry	
Natural Science 113	3	History 153	3
College Science		Survey of Civilization	
Physical Education 111 (Women)	1	Natural Science 123	3
Freshman Practice or		College Science	
Military Science 111 (Men)	1	Physical Education 121 (Women)	1
Elementary		Freshman Practice or	
Industry	2	Military Science 121 (Men)	2
		Industry	
		Elementary	
	17		18

SOPHOMORE YEAR

First Semester	Hrs.	Second Semester	Hrs.
Foreign Language 113	3	Foreign Language 123	3
Elementary French or		Elementary French or	
or Elementary Spanish		Elementary Spanish	
Education 273	3	Education 283	3
Pupil Growth and Development		Pupil Growth and Development	
Political Science 263	3	Political Science 203	3
American National Government		State Government	
Library Service Education 213	3	Library Service Education 223	3
The Library in the School		The Library in the School	
Physical Education (Theory) 223	3	Physical Education (Theory) 233	3
Introduction to Physical Education		Playground and Community Recreation	
Military Science 211 (Men)	1	Military Science 221 (Men)	1
Elementary or		Elementary or	
Physical Education 211 (Women)	1	Physical Education 221 (Women)	1
Sophomore Practice		Sophomore Practice	
	16		16

JUNIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Foreign Language 213 (Fren. or Span.)	3	Foreign Language 223 (Fren. or Span.)	2
Reading and Grammar Review or Advanced Grammar and Reading		Reading and Grammar Review or Advanced Grammar and Reading	
Library Service Education 313	3	English 223	3
Adm. of School Libraries		World Literature	
English 213	3	Library Service Education 323	3
Public Speaking		Administration of School Libraries	
Education 333	3	Education 363	3
Teaching High School Subjects or		Elementary School Curriculum or	
Education 453	3	Education 323	3
Teaching the Tool Subjects		High School Curriculum	
Military Science 313	3	Military Science 323	3
Advanced		Advanced	
Minor	3	Minor	3
	<hr/>		<hr/>
	15 or 18		18

SENIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Education 393	3	Library Service Education 343	3
Educational Problems		Laboratory Work in Library	
Library Service Education 333	3	Education 406	6
School Library Reference Materials		Practice Teaching	
Minor	9	Education 383	3
Military Science 413	3	Educational Psychology	
Advanced		Military Science 423	3
	<hr/>	Minor	<hr/>
	15 or 18		15 or 18

DESCRIPTION OF COURSES

LIBRARY SERVICE EDUCATION

213. THE LIBRARY IN THE SCHOOL. (3-0) *Credit 3*. I. Service practices for children and young people; survey of books by age, psychological and social levels; selection of book materials and audio-visual aids; reading guidance.

223. THE LIBRARY IN THE SCHOOL. (3-0) *Credit 3*. II. Continuation of Library Service-Education 213. Prerequisite L. S. Ed. 213.

313. ADMINISTRATION OF SCHOOL LIBRARIES. (3-0) *Credit 3*. I. Library services as related to school objectives and program; organization and administration of libraries and library materials; professional aspects of librarianship.

323. ADMINISTRATION OF SCHOOL LIBRARIES. (3-0) *Credit 3*. II. Continuation of Library Service-Education 313; emphasis on ordering, cataloguing, classifying and library accounting procedures. Prerequisites: L. S. Ed. 313.

333. SCHOOL LIBRARY REFERENCE MATERIALS AND TOOLS. (3-0) *Credit 3*. I. Types of reference methods, techniques, services; organization for reference services.

343. EXPERIENCE WORK IN LIBRARY METHODS IN SELECTED LIBRARIES. (3-0) *Credit 3*. II. Prerequisites: Above Library Service-Education Courses.

DEPARTMENT OF MATHEMATICS

MAJOR REQUIREMENTS

For a major in mathematics 27 semester hours are required, at least nine of which must be in courses numbering 300 and above.

MINOR REQUIREMENTS

For a minor in mathematics eighteen hours are necessary, at least six of which must be in courses numbered above 300.

SUGGESTED PROGRAM FOR A MAJOR IN MATHEMATICS

FRESHMAN YEAR

First Semester	Hrs.	Second Semester	Hrs.
Education 103	3	English 123	3
Orientation		Reading and Composition	
English 113	3	Education 113	3
Grammar and Composition		Introduction to Education	
Social Science 113	3	Social Science 123	3
Introduction to the Social Sciences		Introduction to the Social Sciences	
Natural Science 113	3	Natural Science 123	3
College Science		College Science	
Mathematics 113	3	Mathematics 123	3
College Algebra		Trigonometry	
Physical Education (Women) 111 or	1	Physical Education 121 (Women) or	1
Military Science 111 (Men)	1	Military Science (Men) 121	1
Elementary		Elementary	
Industry	2	Industry	2
	<hr/>		<hr/>
	18		18

SOPHOMORE YEAR

First Semester	Hrs.	Second Semester	Hrs.
Mathematics 213	3	Mathematics 223	3
Analytical Geometry		Differential Calculus	
Political Science 263	3	Political Science 203	3
American National Government		American State Government	
Foreign Language 113	3	Foreign Language 123	3
Elementary French or		Elementary French or	
Elementary Spanish		Elementary Spanish	
Education 273	3	Education 283	3
Pupil Growth and Development		Pupil Growth and Development	
Physical Education (Theory)	3	Minor	3
Introduction to Physical Education		Physical Education Prac. 221 (Women)	
Physical Ed. Prac. 211 (Women) or	1	or Military Science (Men) 221	1
Military Science (Men) 211	1	Elementary	
Elementary			
	<hr/>		<hr/>
	16		16

JUNIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Foreign Language 213	3	Foreign Language 223	3
Reading and Grammar Review		Reading and Grammar Review	
(French) or Advanced Grammar		(French) or Advanced Grammar	
and Reading (Spanish)		and Reading (Spanish)	
English 213	3	English 223	3
Public Speaking		World Literature	
Mathematic 313	3	Mathematics 323	3
Integral Calculus		Intermediate Calculus	
Mathematics 343	3	Mathematics 413	3
Solid Analytical Geometry		Theory of Equations	
Education 323	3	Education 333C	3
High School Curriculum		Methods of Teaching Mathematics in	
Military Science 313	3	the High School	
Advanced		Military Science 323	3
		Advanced	

15 or 18

15 or 18

SENIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Education 406 or 306	6	Mathematics 363	3
Practice Teaching		College Geometry	
Education Elective	6	Physical Education Theory	3
Elective	3	Philosophy	3
Military Science 413	3	Elective	3
Advanced		Military Science 423	3
		Advanced	
		Physics (Elective)	3
	15		15

DESCRIPTION OF COURSES

MATHEMATICS

013. INTERMEDIATE ALGEBRA. (3-0) *Credit 3.* I. Review of elementary algebra.

113. COLLEGE ALGEBRA. (3-0) *Credit 3.* I. Selected topics from standard algebra.

123. TRIGONOMETRY. (3-0) *Credit 3.* I. Standard selections from plane trigonometry.

173-183. ELEMENTS OF APPLIED MATHEMATICS. (3-0) *Credit 3.* I. and II. Review of fundamental operations with applications to business practices.

193. ADVANCED PLANE GEOMETRY. (3-0) *Credit 3.* More advanced topics on Euclidean plane geometry.

213. ANALYTICAL GEOMETRY. (3-0) *Credit 3.* I. The point, the straight line, and the conic sections.

223. DIFFERENTIAL CALCULUS. (3-0) *Credit 3.* II. The differentiation of algebraic and transcendental functions with applications.

313. INTEGRAL CALCULUS. (3-0) *Credit 3.* I. Evaluating ordinary integrals and their application to practical problems.

323. INTERMEDIATE CALCULUS. (3-0) *Credit 3.* Selected topics beyond 223 and 313.

343. SOLID ANALYTICAL GEOMETRY. (3-0) *Credit 3.* II.

353. METHODS OF TEACHING MATHEMATICS IN THE HIGH SCHOOL. (3-0) *Credit 3.* II. See Department of Education (Education 333C).

363. COLLEGE GEOMETRY. (3-0) *Credit 3.*

413. THEORY OF EQUATIONS. (3-0) *Credit 3.* Fundamental discussions of elementary equations.

423. DIFFERENTIAL EQUATIONS. (3-0) *Credit 3.* I and II. Ordinary differential equations and the applications.

DEPARTMENT OF MUSIC

The Department of Music has planned a program that will provide opportunities for a more thorough recognition of the student's needs and interests, with special effort to help him

discover and develop his potentialities and functions as a contributing citizen in his community through the following aims:

The Program—

1. To be a vital one functioning in keeping with the present trends of philosophy and practice in music education; providing the educational preparation and technical skill required of those who are planning to become teachers, performers or composers; and having meaning for those who are non-professional devotees of music.
2. To develop in the student those musical potentialities which may be latent and not as yet recognized.
3. To provide a more complete integration of music subject matter and other phases of the college curricula, with special emphasis on the inclusion of musical performance in the actual teaching situation.

MAJOR REQUIREMENTS

The degree of Bachelor of Science with a major in music is offered for the completion of 131 semester hours in the prescribed curriculum of music education with emphasis upon one of the applied fields. The minimum music requirement for the degree is 49 hours.

The degree of Bachelor of Music is offered for the completion of a minimum of 150 semester hours of which 75 in music are the minimum requirement.

The Bachelor of Music degree is designed to follow the music major baccalaureate with a curriculum of supplementary professionalized and specialized courses in music. Normally, five years is required to complete the work.

Students must maintain an average of "B" or above in 50 per cent of the music subjects in the freshman and sophomore years, and "B" or above in the entire major field in each of the remaining years.

MINOR REQUIREMENTS

For a minor in music 24 semester hours are required, 8 of which must be applied music. The minor is offered with emphasis upon methods and materials, and theory.

OTHER REQUIREMENTS

All students majoring in music are required to participate in vocal and instrumental organizations. All are required to play the piano of sophomore level. This requirement must be met regardless of the number of accumulated credit hours.

MUSIC ORGANIZATIONS

The College Chorus, Mixed Glee Club, Men's Glee Club, Women's Glee Club, Concert Choir, Quartets, Band and Orchestras offer excellent opportunities for music participation and expression, and are under direct supervision of teachers of the department. The band is divided into two parts—Concert and Military. The Military Band works in conjunction with the Department of Military Science.

HONORARY SOCIETY

The Mu Alpha Sigma Honorary Society, organized in 1935-1936, gives recognition for achievement in meritorious performance, scholarship, research and creative efforts in music. Students are elected solely upon the foregoing qualifications, and not upon application for membership.

COURSE SUMMARY OF MUSIC MAJOR REQUIREMENTS

Course	Hrs.
Piano (Applied)	12
Voice (Methods)	2
Instruments (Orchestral)	8
Methods (Elem., High School and Instr., History)	9
Theory	18
Education	24
English	12
Foreign Language	12
Mathematics	6
Natural Science	6
Government	6
Social Science	6
Physical Education	10

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COURSE SUMMARY OF MUSIC MINOR REQUIREMENTS

Course	Hrs.
Piano (Applied)	4
Voice	2
Instruments	2
Theory	8
Methods (6) and Conducting (2)	8

YEARLY DISTRIBUTION OF MINOR REQUIREMENTS

FRESHMAN YEAR		Total Hrs.
	Hrs.	
Piano (Applied)	4	4
SOPHOMORE YEAR		
Voice	2	
Theory	8	10
JUNIOR YEAR		
Methods	6	6
SENIOR YEAR		
Instruments	2	4
Conducting	2	4
		<hr/> 24

SUGGESTED PROGRAM FOR A MAJOR IN MUSIC

FRESHMAN YEAR			
First Semester	Hrs.	Second Semester	Hrs.
English 113	3	English 123	3
Grammar and Composition		Reading and Composition	
Education 103	3	Education 113	3
General Orientation		Introduction to Education	
Mathematics 173	3	Mathematics 183	3
Business Applied Mathematics		Business Applied Mathematics	
Science 113	3	Science 123	3
College Science		College Science	
Piano 112	2	Piano 122	2
Elementary Piano		Elementary Piano	
Music 153	3	Music 142	2
Music Fundamentals		Voice Meth. Class	
Military Science (Men) 111	1	Military Science (Men) 121	1
Elementary or		Elementary or	
Physical Education (Women) 111	1	Physical Education (Women) 121	1
Freshman Practice		Freshman Practice	
Choir 112	2	Choir 122	2
Choral Practice		Choral Practice	
Music 411	1	Music 421	1
Perspectives in Music		Perspectives in Music	
	<hr/> 21		<hr/> 20

SOPHOMORE YEAR

First Semester	Hrs.	Second Semester	Hrs.
Foreign Language 113	3	Foreign Language 123	3
Elementary French or		Elementary French or	
Elementary Spanish		Elementary Spanish	
Government 263	3	Government 203	3
National Government		State Government	
Piano 212	2	Piano 222	2
Intermediate Piano		Intermediate Piano	
Music 152	2	Music 162	2
Aural Theory—Elem. Solf.		Aural Theory—Elem. Solf.	
Music 152	2	Music 162	2
Written Theory — Elem. Har.		Written Theory—Elem. Har.	
Education 273	3	Education 283	3
Pupil Growth and Development		Pupil Growth and Development	
Strings 132	2	Woodwinds 132 or Brasses 132	2
String Class		Military Science (Men) 221	1
Military Science (Men) 211	1	Elementary	
Elementary or		Physical Education (Women) 221	1
Physical Education (Women) 211	2	Sophomore Practice	
Sophomore Practice		Choir 222	1
Choir 212	2	Choral Practice	
Choral Practice		Music 441	1
Music 431	1	Perspectives in Music	
Perspectives in Music			
	<hr/> 21		<hr/> 21

the viola; three octaves; Gavinies, 24 Etudes for the viola, etc. Dupont and Popper Etudes for 'cello; Sonatas by Breval, Sammortini or Eccles for 'cello; Bach, Suite in D Minor for 'cello; positions as far as the seventh for the double bass Watson method and Edouard Nanny, exercises for double bass; Double bass method by Simandl, Part II. etc.

ORGAN 212-222. (2-6) *Credit 2.* I and II. A continuation of technical exercises; the extension of repertory through Preludes and Fugues by Bach; works of Guilman, Carl, Mendelssohn, etc.; use of organ for church and concert purposes.

PIANO 212-222. (2-6) *Credit 2.* I and II. Hanon, The Virtuoso Pianist completed; Czerny, The School of Velocity completed; Bach, Three-Part Inventions; early keyboard music; Chopin, Waltzes; Haydn, Sonatas.

VOICE 212-222. (2-6) *Credit 2.* I and II. Diatonic and chromatic scales; tone production, vocal embellishments, legato and staccato style; the simple trill; additional songs from a selected list of English songs; selections in Italian and French; an Italian aria from a Mozart opera or another composer of Italian opera; recitatives and arias from such works as "St Paul," "Elijah," and "Messiah."

ADVANCED COURSES

CLARINET 312-322; 412-422; 512-522. (OR OTHER WOODWIND INSTRUMENT). (2-12) *Credit 2.* I and II. Advanced technical studies; repertory, including sonatas and concertos; classical, romantic and modern literature.

CORNET 312-322; 412-422; 512-522. (OR OTHER BRASS INSTRUMENT). (2-12) *Credit 2.* I and II. Advanced technical studies; repertory, including sonatas and concertos; classical, romantic and modern literature.

VIOLIN 312-322; 412-422; 512-522. (OR OTHER STRINGED INSTRUMENT). (2-12) *Credit 2.* I and II. Advanced technical studies; repertory including sonatas and concertos; classical romantic and modern literature.

ORGAN 312-322; 412-422; 512-522. (2-12) *Credit 2.* I and II. Advanced technical studies; service playing, extemporization; repertory, including chorals, sonatas, selected symphonic movements and concertos; classical, romantic and modern literature.

PIANO 312-322; 412-422; 512-522. (2-12) *Credit 2.* I and II. Advanced technical studies including Czerny, The Art of Finger Dexterity; Beethoven, Sonatas, Chopin, Etudes and Ballades; Bach, The Well-Tempered Clavichord, The English Suites and The French Suites; repertory, including solos and concertos of classical, romantic and modern composers.

VOICE 312-322; 412-422; 512-522. (2-12) *Credit 2.* I and II. Advanced technical studies; repertory, including oratorio and opera recitatives and arias in English, Italian, French and German; classical, romantic and modern literature.

METHODS AND MATERIALS

BRASSES 132. (GROUP INSTRUCTION). (2-6) *Credit 2.* I or II. Fundamental technique for playing the brass instruments as an aid in understanding how to organize bands and orchestras in the elementary and high school.

PERCUSSION 132. (GROUP INSTRUCTION). (2-6) *Credit 2.* I or II. Fundamental technique for playing the percussion instruments as an aid in understanding how to organize bands and orchestras in the elementary and high schools.

STRINGS 132. (GROUP INSTRUCTION). (2-6) *Credit 2.* I or II. Fundamental technique for playing the stringed instruments as an aid in understanding how to organize orchestras in the elementary and high school.

WOODWINDS 132. (GROUP INSTRUCTION). (2-6) *Credit 2.* I or II. Fundamental technique for playing the woodwind instruments as an aid in understanding how to organize bands and orchestra in the elementary and high school.

142-172. (VOICE CLASS METHODS). (2-6) *Credit 2.* I and II. Basic principles and problems in voice instruction as related to groups as well as the individual with emphasis on the participation approach.

253-263. ELEMENTARY SCHOOL METHODS. (Elementary Education Majors). (6-0) *Credit 6.* (Both semesters). Grade school music methods and materials, care and development of the child voice.

342. (ORGANIZATION AND ADMINISTRATION OF CHORAL GROUPS). (2-0) *Credit 2.* I and II. Technique of organization and administration of elementary and high school choral groups, including tone interpretation, and choral literature. Clinical aspects of the rehearsal and performance.

373. (SUPERVISION AND ADMINISTRATION OF GRADE SCHOOL MUSIC). (3-0) *Credit 3.* I or II. Evaluate criteria of music teaching and supervision in junior and senior high school.

393. (INSTRUMENTAL MUSIC EDUCATION). (3-0) *Credit 3.* I or II. Evaluation of current principles and procedures in the teaching of instrumental music in the elementary and high school including methods of instruction, and organization of materials.

403. (OBSERVATION AND PRACTICE TEACHING OF APPLIED MUSIC). (3-0) *Credit 3.* I or II. Teaching of applied music in groups and to individuals through apprenticeship and upon one's own under the guidance of a critic teacher.

442. (THE STUDY OF PIANO ACCOMPANYING). (2-6) *Credit 2.* I or II. Accompanying vocal and instrumental soloists and groups. Acquaintance with accompaniments of standard literature (orchestral, operatic, oratorio, etc.)

MUSIC ENSEMBLES

112, 122, 212, 222, 312, 322, 412, 422. (CHORAL PRACTICE). (College Choir). ($\frac{1}{2}$ -4) *Credit 2.* I and II. All four years. Sacred and secular choral music, cantatas and oratorios—offering excellent practical opportunities for expression in part singing. A cappella and accompanying singing.

111, 121, 211, 221. (MILITARY-CONCERT BAND). (1-4) *Credit 1.* I and II. All four years. A military concert organization for concert and military music. Experience in advanced band literature.

410. (TWO-PIANO PLAYING). (0-6) *No Credit.* I or II. Excellent opportunity for obtaining poise in piano playing, and for developing an accurate rhythmic sense.

420. (STRING ENSEMBLES). (0-6) *No Credit*. I or II. A small ensemble serving as the nucleus for the symphony orchestra.

DEPARTMENT OF NATURAL SCIENCE

DESCRIPTION OF COURSES

The Department of Natural Sciences includes Biology, Chemistry, Physics and Science. Each section has a Chairman and its respective requirements for major and minor students.

The department offers courses designed to prepare students for industry, the teaching profession, preprofessional studies in the medical sciences and other sciences which require a scientific background. Credits earned here are accepted by all class A medical schools.

PREPROFESSIONAL STUDIES IN THE MEDICAL SCIENCES

Students who plan a career in Medicine, Denistry, Veterinary Medicine or any of the Medical Sciences are advised to take the course of study outlined for a major in Biology or Chemistry.

Such students will be advised by the Premedical Advisory Committee. Announcements of The Medical Admission Tests and the Dental Aptitude Tests will be made prior to the dates they will be given.

Listed below are the minimum requirements of the State colleges and the American Society of Clinical Pathologists. Students who contemplate study in the field are advised that the requirements listed are the minimum requirements and that good grades (an average of B or better) and a college degree should enhance ones possibilities of acceptance. Those who plan to attend professional schools should consult the catalog of the specific school they plan to attend before beginning their preparatory work.

PRE-DENISTRY

1. A minimum of 60 semester hours which must be approved by the Dean of Admissions of respective school.
2. The grade average must be a "C" or better in each course.
3. Courses required
 - A. 12 semester hours in General Biology or General Zoology, including Comparative Anatomy.

- B. 8 semester hours of general physics which includes laboratory credit
 - C. 8 semester hours in General Chemistry with laboratory
 - D. 6 semester hours in Organic Chemistry with laboratory
 - E. 6 semester hours in English Composition and Rhetoric (Freshman)
 - F. 6 semester hours of American Government
 - G. 6 semester hours of History of the U. S.
4. It is suggested that candidates should complete 12 hrs. of English of which 6 semester hrs. must be in composition and Rhetoric; also 4 hrs. in Quantitative (volumetric) Analysis
5. Courses recommended as electives:
- A. Mathematics
 - B. Psychology
 - C. Sociology
 - D. Economics
 - E. Genetics (Hereditary)
 - F. Embryology
 - G. A Foreign Language

PRE-MEDICINE

Ninety semester hours. Prescribed courses must include:

- 12 Semester hours in English (does not include public speaking)
- 12 Semester hours in Biology or Zoology. Must include Comparative Anatomy (with Lab).
- 8 Semester hours Physics (with laboratory).
- 8 Semester hours General Inorganic Chemistry (with laboratory)
- 6 Semester hours Organic Chemistry (with laboratory)
- 4 Semester hours in Quantitative Analysis
- 3 Semester hours Algebra
- 3 Semester hours of Trigonometry or Analytical Geometry

Courses in foreign languages, mathematics, physical chemistry, general history, and philosophy are strongly recommended.

PRE-VETERINARY MEDICINE

A minimum of sixty semester hours are required. These must include:

- 6 to 8 hrs. inorganic chemistry
- 6 to 8 hrs. organic chemistry
- 6 hrs. of Zoology
- 6 hrs. of Mathematics (Algebra and Trigonometry)
- 6 to 8 hrs. of Physics
- 8 hrs. English (6 in Rhetoric and Composition)
- 3 hrs. American Government
- 6 hrs. Animal Husbandry

PRE-MEDICAL TECHNOLOGY

The minimum requirement is 60 semester hours, however, students who have more academic training applications are likely to receive more con-

sideration. Upon the completion of the minimum requirements a student must complete 12 consecutive months of training in an approved school of Medical Technology.

The 60 semester hours should include:

- 8 semester hours of Chemistry
- 4 semester hours of Organic Chemistry
- 4 semester hours of Zoology
- 8 semester hours of other Biology

PRE-PHARMACY

Most pharmacy schools will accept students who graduate from accredited high schools with the basic Sciences. However, many do recommend a year or two of preparatory work in the Sciences.

PRE-NURSING

113-123. COLLEGE SCIENCE. (3-0) *Credit 3.* I and II.

A course designed to give students an orientation in science; to cultivate scientific attitudes and methods of procedure; seeks to broaden concepts, generalizations and outlook; to open new avenues of interest and satisfaction; to enable the individual to meet the problems of existence with available knowledge and requisite skills and to develop scientific appreciation.

In addition to the text, the course provides special lectures by the instructor and by other specialists in the various fields of science.

333. THE TEACHING OF HIGH SCHOOL SCIENCE. (3-0) *Credit 3.* Methods and materials in teaching of science in the junior and senior high school; training course for prospective teachers of science; lectures or conferences and field and laboratory work. Required of students who expect to get a teacher's certificate in science.

BIOLOGY

The courses in Biology fall primarily into three groups: those satisfying the basic requirements of general education, those intended to give sufficient knowledge to support majors in other fields (Agriculture, Chemistry, Education, Home Economics, Nursing Education, Physical Education), and those designed primarily to furnish a foundation for professional work in Biology and Medicine.

DEPARTMENT OF BIOLOGY

MAJOR REQUIREMENTS

For the degree of Bachelor of Science with a major in biology, a minimum of 34 semester hours is required. Courses are prescribed as follows:

Biology 115, 125—General Zoology	10 hours
Biology 134—General Botany	4 hours
Biology 314, 324—Human Physiology	8 hours
Biology 414—Vertebrate Embryology	4 hours
Biology 424—Comparative Vertebrate Anatomy	4 hours
Elective in Biology (advanced level)	4 hours

In addition to the above requirements for a major each person is required to present in thesis form the result of a scientific investigation; Science 333—Teaching of High School Science (for those who plan to teach), which is counted as Education, and the following courses:

Biology 451, 461—Research	2 hours
Biology 502—Laboratory Technique	2 hours
Chemistry 115, 125—General Inorganic Chemistry	10 hours
Physics 115, 125—General Physics	10 hours
Mathematics 113—College Algebra	3 hours
Mathematics 123—Trigonometry	3 hours

MINOR REQUIREMENTS

For a minor in biology, twenty-two semester hours in addition to Science 333 Teaching of High School Science (for those who plan to teach), which counts as Education, are necessary. The courses are prescribed as follows:

Biology 115, 125—General Zoology	10 hours
Biology 134—General Botany	4 hours
Biology 314, 324—Human Physiology	8 hours

In addition to the twenty-two semester hours each minor of Biology must present the following courses:

Chemistry 114, 124—General Chemistry	8 hours
Biology 502—Laboratory Technique	2 hours

All major or minor students must maintain an average of "C" or above in all science courses; if a student's average drops below "C" at the end of the sophomore year, he will be asked to change to another major or minor field.

SUGGESTED OUTLINE FOR A MAJOR IN BIOLOGY

FRESHMAN YEAR

First Semester	Hrs.	Second Semester	Hrs.
Biology 115	5	Biology 125	5
General Zoology		General Zoology	
English 113	3	English 123	3
Grammar and Composition		Reading and Composition	
Mathematics 113	3	Mathematics 123	3
College Algebra		Trigonometry	
Orientation 103	3	Education (Elective)	3
Social Science 113	3	Social Science 123	3
Introduction to Social Science or		Introduction to Social Science or	
History 113	3	History 123	3
European		European	
Physical Education 111 (Women)	1	Physical Education 121 (Women)	1
Freshman Practice or		Freshman Practice or	
Military Science 111 (Men)	1	Military Science 121 (Men)	1
Elementary		Elementary	
	18		18

SOPHOMORE YEAR

First Semester	Hrs.	Second Semester	Hrs.
Biology 314	4	Biology 324	4
Human Physiology		Human Physiology	
Chemistry 115	5	Chemistry 125	5
General Inorganic Chemistry		General Inorganic Chemistry	
Education 273	3	Education 283	3
Pupil Growth and Development		Pupil Growth and Development	
English 213	3	English 223	3
Public Speaking		World Literature	
French 113	3	French 123	3
Elementary French		Elementary French	
Physical Education 211 (Women)	1	Physical Education 221 (Women)	1
Sophomore Practice or		Sophomore Practice or	
Military Science 211 (Men)	1	Military Science 221 (Men)	1
Elementary		Elementary	
	19	Biology 502	2
		Laboratory Technique	2
			21

JUNIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Biology 414	4	Biology 424	4
Vertebrate Embryology		Comparative Anatomy	
French 213	3	French 223	3
Reading and Grammar Review		Reading and Grammar Review	
Minor (Elective) or	3	Education 333	3
Education 323	3	Teaching of High School Science	
High School Curriculum		Physics 224	4
Physics 214	4	General Physics	
General Physics		Political Science 203	3
Political Science 263	3	State Government	
National Government		Military Science 323 (Men)	3
Military Science 313 (Men)	3	Advanced	
Advanced			
Biology 502	2		
Laboratory Technique			
	19		17

SENIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Biology 134	4	Education 423	3
General Botany		School and Community Relations	
Elective in Major Field	4	Elective	3
Education (Elective)	3	Education 406	6
Minor (Elective)	6	Student Teaching	
Military Science 413 (Men)	3	Minor	6
Advanced		Military Science 423 (Men)	3
Biology 451	1	Advanced	
Research		Biology 461	1
		Research	
	18		19

DESCRIPTION OF COURSES

BIOLOGY

114. GENERAL ZOOLOGY. (2-4) *Credit 4.* Fundamental principles of Biology from the study of embryology, structure and physiology of the Frog. (For non-majors and minors).

115. GENERAL ZOOLOGY. (3-4) *Credit 5.* For majors and minors in Biology; a detailed study of morphology, physiology, ecology, and taxonomy of the vertebrates.

124. GENERAL ZOOLOGY. (2-4) *Credit 4.* Morphology, physiology and relationship in invertebrate groups. Prerequisite: Biology 114 (For non majors and minors).

125. GENERAL ZOOLOGY. (3-4) *Credit 5.* For majors and minors in Biology; a detailed study of morphology, physiology, ecology, and taxonomy of the invertebrates.

134. GENERAL BOTANY. (2-4) *Credit 4.* Morphology, physiology of flowering plants; structure, method of reproduction and biotic relationships of types representative of lower plants.

154-164. HUMAN ANATOMY AND PHYSIOLOGY FOR STUDENT NURSES. (2-4) *Credit 4.* The structure and function of the human body; the structure of each of the systems demonstrated by models, charts and animal dissections; their function studied by experiments.

254. GENETICS. (2-4) *Credit 4.* Laws and principles governing heredity in plants and animals; relation to plant and animal improvement and to Eugenics. Prerequisite: Biology 134, 114.

304. PHYSIOLOGY FOR STUDENTS OF HOME ECONOMICS. (2-4) *Credit 4.* Structure and function of human organs and systems as related to Home Economics and good health.

314-324. HUMAN PHYSIOLOGY. (Majors and Physical Education Majors). (2-4) *Credit 4.* Structure, physiology of human organ system and related principles. Prerequisite: Biology 114, 124.

334. GENERAL MICROBIOLOGY. (Bacteriology). (2-4) *Credit 4.* Morphology, physiology, classification, cultivation of microorganisms, relation to agriculture, premedics, and industry. Prerequisite: General Chemistry, Biology 134 and 114.

364. ANIMAL HISTOLOGY. (2-4) *Credit 4.* Microscopic study of tissues and organs of vertebrates; relation of structure to function.

403. PLANT BREEDING AND IMPROVEMENT. (3-0) *Credit 3.* II. Principles involved in breeding economic important crop plants with emphasis on improvements in resistance to disease, drought, insects and extreme temperatures, and for machine harvesting and cultivation.

413. PLANT PHYSIOLOGY. (2-2) *Credit 3.* I. Structure, physiology of plant organ systems and related principles.

423. PLANT PATHOLOGY. (2-2) *Credit 3.* II. A study of diseases in plants: diseases found in the economic important crop plants.

424. COMPARATIVE ANATOMY. (3-5) *Credit 4.* Anatomy of organs and organ systems, their function and evolution in major vertebrate types; prerequisite: Biology 114, 124, 414.

434. BACTERIOLOGY OF DAIRY PRODUCTS. (2-2) *Credit 3.* I. Influence of micro-organisms on the quality of milk products; sanitary control of farm and commercial dairies.

443. ADVANCED PLANT BREEDING AND IMPROVEMENT. (3-0) *Credit 3.* I. A comprehensive study of breeding methods and their application to the improvement of economic important crop plants; special problems in plant breeding.

451-461. RESEARCH. (0-2) *Credit 1.* I or II. Library and laboratory work on specific problems studied for investigative paper (required of all majors).

463. PLANT NUTRITION. (2-2) *Credit 1.* II. Improvement and use of plant nutrients, fertilizers, manures and lime; comprehensive review of the part played by the minor elements in plant nutrition.

502. LABORATORY TECHNIQUE. (1-5) *Credit 2.* I or II. A training course in laboratory methods for prospective teachers of biology. Required of students electing Biology as a major field.

DEPARTMENT OF CHEMISTRY

MAJOR AND MINOR REQUIREMENTS

For a B.S. Degree in Chemistry, 40 semester hours are required of which 16 hours must be in courses numbered 300 or above.

Twenty-four semester hours are required for a minor in Chemistry, of which five hours must be in courses numbered 300.

All students who major or minor in Chemistry must include the following courses: Chemistry 115, 125, 204, 214, and 315. Pre-medical students are advised to take Chemistry 325. In addition to the above courses, all persons majoring in Chemistry must take the following courses: Mathematics 113, 123, 213, and 224, and Physics 214 and 224. Math. 313 is recommended.

Students who plan to major or minor in chemistry will be expected to maintain an average of "C" which is the minimum requirement and must take courses 115 and 125 which are designed for students who plan to major and minor in chemistry. This is effective for students who matriculate for the first time September, 1951.

SUGGESTED OUTLINE FOR A MAJOR IN CHEMISTRY

FRESHMAN YEAR

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 115	5	Chemistry 125	5
General Inorganic Chemistry with Introductory Qualitative Analysis		General Inorganic Chemistry with Introductory Qualitative Analysis	
English 113	3	English 123	3
Grammar Composition		Reading and Composition	
Mathematics 113	3	Mathematics 123	3
College Algebra		Trigonometry	
Orientation 103	3	Minor (Elective)	3
Social Science 113	3	Social Science 123	3
Introduction to Social Science		Introduction to Social Science	
Physical Education 111 (Women)	1	Physical Education 121 (Women)	1
Freshman Practice, or		Freshman Practice, or	
Military Science (Men) 111	1	Military Science 121 (Men)	1
Elementary		Elementary	
Industry 302 Chem. Lab. Tech.	2	Industry Chem. 302 Lab. Tech.	2
	20		20

SOPHOMORE YEAR

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 204 or 214	4	Chemistry 214 or 224	4
Qualitative Analysis or Quantitative Analysis		Quantitative Analysis	
Education 273	3	Education 283	3
Pupil Growth and Development		Pupil Growth and Development	
Physics 214	4	Mathematics 213	3
General Physics		Analytical Geometry	
French 113	3	French 123	3
Elementary French		Elementary French	
Government 263	3	Physics 224	4
American National Government		General Physics	
Physical Education 211 (Women)	1	Physical Education 221 (Women)	1
Sophomore Practice, or		Sophomore Practice, or	
Military Science 211 (Men)	1	Military Science 221 (Men)	1
Elementary		Elementary	
	18		18

JUNIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 315	5	Chemistry 325	5
General Organic Chemistry		General Organic Chemistry	
Mathematics 223	3	Government 203	3
Differential Calculus		American State Government	
English 213	3	English 223	3
Public Speaking		World Literature	
French 213	3	French 223	3
Reading and Grammar Review		Reading and Grammar Review	
Physical Education Theory*	3	Physical Education Theory*	3
Military Science 313	3	Military Science 323	3
Advanced		Advanced	
Education 393	3	Education 333	3
Education Problems		Methods of Teaching Science	
	17 or 20		17 or 20

SENIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 414	4	Chemistry 424	4
Physical Chemistry		Physical Chemistry	
Education 406	6	Minor	3
Practice Teaching		Economics	3
Education 423	3	Military Science 423	3
School and Community		Advanced	
Minor	3	Elective	3
Military Science 413	3		
Advanced			
Chemistry 451	1		
Research			
	17 or 20		13 or 16

DESCRIPTION OF COURSES

CHEMISTRY

104. CHEMISTRY FOR NURSES. (2-4) *Credit 4*. I. For students of Nursing and Nursing Education; the essentials for inorganic and biological chemistry requisite for nursing.

114-124. GENERAL INORGANIC CHEMISTRY. (3-4) *Credit 4*. The first semester deals chiefly with fundamental laws and theories, the periodic chart, formulas, equations, solutions, and elementary calculations. The second semester includes chemical equilibrium, detailed consideration of inorganic compounds and the introduction of Organic Chemistry.

These courses are for non-majors and non-minors—for students in Home Economics, Agriculture, and Engineering.

115-125. GENERAL INORGANIC CHEMISTRY. (3-0) *Credit 5*. For students majoring or minoring in chemistry; composition, structure, changes of matter and the laws governing these changes; fundamentals of the most modern concepts. The second semester deals largely with properties and preparation of the elements and their inorganic compounds.

204. QUALITATIVE ANALYSIS. (2-4) *Credit 4*. Analytical reactions from the point of view of the laws of chemical equilibrium applied to solution of electrolysis; laboratory work of the separation and detection of both metal and non-metal; micro qualitative laboratory techniques; prerequisite: Chemistry 115 and 125.

214-224. QUANTITATIVE ANALYSIS. (2-4) *Credit 4*. I and II. Volumetric and gravimetric analysis stoichiometrical relations, practical applications. Laboratory work consists of the analysis of samples of salts, ores, water and limestone. Prerequisite: 204.

* Women Students Only

244. **ELEMENTARY PHYSIOLOGICAL CHEMISTRY.** *Credit 4.* II. For students of Home Economics and Agriculture. Study of the composition and metabolism of the fats, proteins, carbohydrates, and vitamins. Prerequisite: Chemistry 114, 124.

254. **AGRICULTURAL CHEMISTRY.** (2-4) *Credit 4.* For students majoring in agriculture. Studying of the composition of plant and animal tissues, animal nutrition, soils, fertilizers, insecticides and quantitative analysis of some compounds directly related to the field of agriculture. Prerequisite: Chemistry 114 and 124.

315 and 325. **GENERAL ORGANIC CHEMISTRY.** (3-4) *Credit 5.* I and II. For Chemistry majors and minors, pre-medical, pre-dental, and students of nursing education. Aliphatic and aromatic compounds; preparation and testing of representative compounds of the aliphatic and aromatic substances. Prerequisite: Chemistry 115, 125 and 204, 214.

401. **JOURNAL READING AND CHEMICAL LITERATURE.** (1-0) I or II. For Chemistry majors. Reports and discussion on current chemical literature and research. Prerequisite: Major in Chemistry or permission of Instructor.

402. **ORGANIC PREPARATIONS.** (1-4) *Credit 2.* I or II. Preliminary work in the synthesis of Organic compounds and a study of the reaction of compounds of theoretical and industrial importance. Prerequisite: Chemistry 325.

414-424. **PHYSICAL CHEMISTRY.** (3-4) *Credit 4.* I and II. Three one-hour lectures per week and one four-hour laboratory period (or two laboratory periods consisting of two hours each). Properties of gasses, liquids and solids, solutions, thermodynamics and thermochemistry, homogeneous and heterogeneous chemical equilibrium, chemical kinetics, electrochemistry, atomic and molecular structure, elements of the quantum theory, and photochemistry. Prerequisite: Quantitative Analysis, College Physics, and Integral Calculus with an average grade of C or better.

434. **BIOCHEMISTRY.** (2-4) *Credit 4.* I or II. An introductory course on the chemistry of living matter, foods, metabolism and nutrition. The laboratory works deal with the examination of tests of foods, nutritional studies and the qualitative and quantitative examination of blood and urine. Prerequisite: Chemistry 214, 315 and 325 or permission of instructor.

451, 461. **RESEARCH.** (0-2) *Credit 1.* I or II. Library and laboratory work on specific problems to be studied for investigative paper required of all majors.

454, 464. **INDUSTRIAL ANALYSIS.** (1-6) *Credit 4.* I and II. For students interested in industrial chemistry. Analysis of various industrial agricultural food products and examination of water. Prerequisite: Chemistry 224.

DEPARTMENT OF PHYSICS

MAJOR AND MINOR REQUIREMENTS

The course offering in Physics is designed for the preparation of three classes of students: those who must present Physics as a prerequisite to the study of medicine, dentistry,

engineering, and those to whom Physics will be an aid to a fuller and more precise interpretation of physical problems arising in other fields of Natural Sciences; and those who desire to major or minor in Physics.

A major in Physics consists of Physics 214, 224, 403 and additional credits to make a total of 32 hours. A minor consists of Physics 214, 224 and additional credit to make a total of 22 hours.

In addition to the above requirements for a major or minor in Physics, the following courses must be presented: Chemistry 114, 124; and Mathematics 113, 123; and a course in differential and integral calculus.

A person majoring in Physics must maintain an average of "C" or above. If a student's average drops below "C" at the end of his Sophomore year, he will be asked to change to another major field.

SUGGESTED OUTLINE FOR MAJORS IN PHYSICS

FRESHMAN YEAR

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 114	4	Chemistry 124	4
General Inorganic Chemistry with Introductory Qualitative Analysis		General Inorganic Chemistry with Introductory Qualitative Analysis	
English 113	3	English 123	3
Grammar and Composition		Reading and Composition	
Mathematics 113	3	Mathematics 123	3
College Algebra		Trigonometry	
Social Science 113	3	Social Science 123	3
Introduction to Social Science		Introduction to Social Science	
Orientation 103	3	Biology 114	4
Physical Ed. Practice (Women) 111.....	1	General Zoology	
Freshman Practice, or		Physical Ed. Practice 121 (Women)	1
Military Science 111 (Men).....	1	Freshman Practice, or	
Elementary		Military Science 121 (Men)	1
		Elementary	
	17		18

SOPHOMORE YEAR

First Semester	Hrs.	Second Semester	Hrs.
Physics 214	4	Physics 224	4
General Physics		General Physics	
French 113	3	French 123	3
Elementary French		Elementary French	
Political Science 263	3	Political Science 203	3
American National Government		American State Government	
Education 273	3	Education 283	3
Pupil Growth and Development		Pupil Growth and Development	
Mathematics 224	3	Mathematics 313	3
Differential Calculus		Integral Calculus	
Physical Ed. Practice 211 (Women)	1	Physical Ed. Practice 221 (Women).....	1
Military Science 211 (Men)		Military Science 221 (Men)	
	17		17

JUNIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Physics 312	2	Physics 322	2
Electrical Measurements		Electrical Measurements	3
Physics 313	3	Physics 323	3
Electrical Measurements		Electrical Measurements	3
Mathematics 213	3	Mathematics 213	3
Analytical Geometry		Analytical Geometry	3
Elective or Negro History	3	Education 333	3
Physical Education Theory	3	Methods of Teaching Science	4
Introduction to Physical Education		Elective	3
Military Science 313 (Men)	3	Physical Education Theory	3
Advanced		Playground and Community Rec.	
Education 393	3	Military Science 323 (Men)	
Educational Problems			
	17 or 20		18

SENIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Education 406	6	Physics 423	3
Physics 413	3	Electronics	
Electronics		Physics 423B	3
Physics 413A	3	Advanced Light	
Advanced Heat and Sound		Electives	9
Electives	3	Military Science 423 (Men)	
Military Science 413 (Men)	3		
Education 423	3		
School and Community			
	18		15

DESCRIPTION OF COURSES

PHYSICS

214, 224. ADVANCED PHYSICS. (2-4) *Credit 4.* I and II. Mechanics, heat, sound, electricity, and light. Prerequisites: Mathematics 113 and 123 which may be taken concurrently with course.

215-225. GENERAL PHYSICS. (2-6) *Credit 5.* I and II. Offered for majors in engineering, mechanics, heat, sound electricity, and light. Prerequisites: Mathematics 113 and 123 which may be taken concurrently with course.

312-322. ELECTRICAL MEASUREMENTS. (0-4) *Credit 2.* I and II. Offered for majors in Electrical Engineering. A laboratory course covering the theory and use of electrical apparatus. Methods of measuring current, power, electromotive force, ferro-magnetism, inductance and capacity. Prerequisites: Physics 214, 224 and Calculus; the Calculus may be taken concurrently with this course.

313-323. ELECTRICAL MEASUREMENTS. (3-0) *Credit 3.* I and II. The theory of electricity and magnetism. Physics 312 and 322 must accompany this course.

303. ELEMENTARY PHOTOGRAPHY. (1-4) I or II. Image formation, perspective, time exposure, latent image, elementary chemistry of development, contact and projection printing, filters, and colors. Prerequisite: Physics 214, 224 and Chemistry 114 and 124, or by consent of instructor.

413-423. ELECTRONICS. (1-4) *Credit 5.* I and II. The theory of the diode, triode, and multi-element tubes; the cathode ray tubes, photobulbs and their application to engineering; considerable laboratory practice. Prerequisite: Physics 214, 224 and Calculus may be taken concurrently with this course.

413A. ADVANCED HEAT AND SOUND. (1-4) *Credit 3.* I. Properties of gasses, elementary theory of thermodynamics and the kinetic theory; laboratory practice in modern methods of temperature measurement, expansion properties of matter, and colorimetry; the transmission and production of sound resonance and vibrational properties of matter. Prerequisites: Physics 214, 224 and Calculus.

423B. ADVANCED LIGHT. (1-4) *Credit 3.* II. The theory of lenses, interference diffraction, polarization; the importance and use of optical instruments; corresponding laboratory work required. Prerequisites: Physics 214, 224 and Calculus.

403. ADVANCED LABORATORY TECHNIQUE. (0-6) *Credit 3.* I or II. Required of all majors in Physics. An advanced experimental problem is given under direction. The problem may take the form of a former classical problem in Physics. The outcome of this investigation is recorded as a thesis. This course is open to only majors in Physics.

DEPARTMENT OF HEALTH AND PHYSICAL EDUCATION

The department of Health and Physical Education offers a four-year plan of study leading to the Bachelor of Science degree with a major in Physical Education.

MAJOR REQUIREMENTS

The department offers general and special courses in Health Education which may be accredited to a combined Major and Minor in the field. Six semester hours of prescribed Health Education courses will be required of majors, and twenty-six hours of Physical Education, making a total of thirty-two hours. Majors should include the following courses: Health Education: 203, 243, or 393; Physical Education: 111, 121, 211, 221, 331, or 321, 373, or 323, 343, 443, or 483, 413, or 423, 453, or 463, 473.

MINOR REQUIREMENTS

Students majoring or minoring in Physical Education will be expected to maintain a "C" average or above.

Twenty semester hours of work in health and Physical Education in addition to the two years of practice are required for a minor. Students minoring in Physical Education should include the following courses: Health Education 203, 243; Physical Education: 111, 121, 211, 221, 213, 331, or 321, 213, 373, or 413, or 453.

ADDITIONAL REQUIREMENTS

Physical Education Practice courses are required of all women students and men Majoring or Minorng in Physical Education two hours per week throughout the freshman and sophomore year.

One uniform is required of non major students, and two uniforms for major students; a blue one-piece suit for non majors; and a white and blue one-piece suit for women majors. White regulation basketball shoes are also required. The approximate cost of each of these costumes is \$5.25. Women should come either equipped with or prepared to purchase these uniforms for their work in Physical Education.

For men majoring in Physical Education regulation uniform and shoes prescribed by the department are required.

INTRAMURAL ATHLETICS

This program, combining work in physical education and recreation, is designed primarily to give students an opportunity to learn and to participate in a variety of sports. A Major must at all times be a candidate for one of the varsity or intramural teams.

SUGGESTED FOUR-YEAR PROGRAM WITH A MAJOR IN PHYSICAL EDUCATION

FRESHMAN YEAR

First Semester	Hrs.	Second Semester	Hrs.
Orientation 103	3	Physical Education 203	3
English 113	3	Personal Hygiene	
Grammar and Composition		English 123	3
Chemistry 114	4	Reading and Composition	
Inorganic		Chemistry 124	4
Mathematics 173 or 113	3	Inorganic	
Applied Mathematics or		Mathematics 123 or 183	3
College Algebra		College Algebra or	
Military Science 111	1	Applied Mathematics	
Elementary or		Military Science 121	1
Physical Education 111	1	Elementary or	
Freshman Practice		Physical Education 121	1
Social Science 113	3	Freshman Practice	
Introduction to Social Science or		Social Science 123	3
Equivalent		Introduction to Social Science or	
Industry	2	Equivalent	
		Industry	2
	19		19

SOPHOMORE YEAR

First Semester	Hrs.	Second Semester	Hrs.
Foreign Language 113	3	Foreign Language 123	3
Elementary French or Elementary Spanish		Elementary French or Elementary Spanish	
Education 273	3	English 223	3
Pupil Growth and Development		World Literature	
Biology 114	4	Biology 124	4
Zoology		Zoology	
English 213	3	Physical Education 243 or 393	3
Public Speaking		Methods in Health Education or Principles of Health	
Physical Education 373	3	Education 283	3
History and Principles		Pupil Growth and Development	
Military Science 211	1	Military Science 221	1
Elementary or		Elementary or	
Physical Education 211	1	Physical Education 221	1
Sophomore Practice		Sophomore Practice	
	17		17

JUNIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Foreign Language 213	3	Foreign Language 223	3
Reading and Grammar Review (French) or Advanced Grammar and Reading (Spanish)		Reading and Grammar Review (French) or Advanced Grammar and Reading (Spanish)	
Biology 314	4	Biology 324	4
Human Physiology		Human Physiology	
Government 263	3	Political Science 203	3
American National Government		American State Government	
Physical Education 331 or 101	1	Physical Education 423 or 463 or 261.1 or 3 Coaching of Team Sports	
Gymnastics		Physical Education 343	3
Education 393	3	Methods and Materials	
Education Problems		Military Science 323	
Physical Education 413 or 453	3	Advanced	
Coaching of Team Sports			
Military Science 313			
Advanced			
	17 or 20		14, 16, 17, or 19

SENIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Education 423	3	Education 333	3
School and Community Relations		High School Curriculum	
Education 406 or 306	6	Physical Education 323	3
Practice Teaching		Organization and Administration	
Electives	6	Physical Education 473	3
Military Science 413		Physiology of Muscular Exercise	
Advanced		Physical Education 443 or 483	3
		First Aid and Prevention of Injuries	
		Elective	3
		Military Science 423	
		Advanced	
	15		15

DESCRIPTION OF COURSES

THEORY COURSES IN PHYSICAL EDUCATION

CHEMISTRY 114 AND 124. See Department of Chemistry for description. Required of all majors.

ZOOLOGY 114 AND 124. See Department of Biology for description. Required of all majors and minors.

HUMAN PHYSIOLOGY 314 and 324. See Department of Biology for description. Required of all majors and minors.

323. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION. (3-0) *Credit 3.* II. Policies in the organization, management and supervision of the physical program. Required of all Majors.

333. METHODS AND MATERIALS FOR TEACHING HEALTH AND PHYSICAL EDUCATION IN ELEMENTARY SCHOOLS. (3-0) *Credit 3*. I. Organization and classification of activities. Each student will be expected to teach activity classes and to evaluate methods of teaching. For elementary teachers.

343. METHODS AND MATERIALS IN PHYSICAL EDUCATION. (Same as Education 333.) (3-0) *Credit 3*. II. Organization and classification of activities play areas, equipment and supplies. Each student will be expected to teach activity classes in physical education, and to evaluate methods of teaching physical education (activities). Required of all majors and minors.

373. HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION. (3-0) *Credit 3*. I. The history and development of physical education principles and procedures upon which the program should be based. Required of all majors and minors.

403. PLAYGROUND AND COMMUNITY RECREATION. (3-0) *Credit 3*. I. A brief historical review of the growth of the play movement; organization and community activities.

413. COACHING OF TEAM SPORTS OF MEN. (3-0) *Credit 3*. I and II. Practice and instruction in coaching football and basketball and techniques of officiating. Required of all majors and minors.

423. COACHING OF TEAM SPORTS FOR MEN. (3-0) *Credit 3*. II. Continuation of 413—Track and Baseball.

443. FIRST AID, AND PREVENTION AND CONTROL OF ATHLETIC INJURIES. *Credit 3*. II. Theory and practice of preventing and treating athletic injuries; practice in technique of massage, bandaging, and First Aid.

453. COACHING OF TEAM SPORTS FOR WOMEN. (3-0) I. Practice and instruction in coaching softball, volleyball, basketball. Required of majors and minors.

463. COACHING OF TEAM SPORTS FOR WOMEN. (3-0) II. Continuation of 453—Field Hockey, Soccer, Speedball.

PRACTICE COURSES

No courses may be selected for two semesters either in the same year or in different years, except in case of failure in a course. Each student must select two of the courses from the 100 group, and two from the 200 group thereby completing the practice requirements in physical education. These courses should be taken in the Freshman and Sophomore years.

111W. FRESHMAN PRACTICE. (0-2) *Credit 1*. I. Low organization games and activities softball, volleyball, for women only.

111M. FRESHMAN PRACTICE. (0-2) *Credit 1*. I. Low organization games and activities touch football, volleyball, gymnastics, for men only.

121W. FRESHMAN PRACTICE. (0-2) *Credit 1*. II: Basketball and hockey, for women only.

121M. FRESHMAN PRACTICE. (0-2) *Credit 1*. II. Gymnastics, basketball, softball, tennis, for men only.

101. ELEMENTARY MODERN DANCE. (1-2) *Credit 1*. I and II. Fundamental steps designed for beginners.

201. INTERMEDIATE MODERN DANCE. (0-2) *Credit 1.* I and II. A continuation of Modern Dance 101. Free and natural movements; self expression through original and creative dance patterns.

211W. SOPHOMORE PRACTICE. (0-2) *Credit 1.* I. Low organization games and activities, speedball, and soccer, for women only.

211M. SOPHOMORE PRACTICE. (0-2) *Credit 1.* I. Low organization games and activities, speedball, gymnastics, hockey and soccer, for men only.

221W. SOPHOMORE PRACTICE. (0-2) *Credit 1.* II. Badminton, Archery, for women only.

221M. SOPHOMORE PRACTICE. (0-2) *Credit 1.* II. Speedball, Archery, and Badminton, for men only.

331-321. GYMNASTICS. (1-2) *Credit 1.* I and II. Theory and practice in gymnastics (Tumbling, stunts, and self testing) for majors and minors.

261. FOLK DANCING. (1-2) *Credit 1.* I and II. History appreciation and interpretation of the folk songs, folk stories, and folk customs; mastery of steps in folk dancing.

301. ADVANCED MODERN DANCE. (0-2) *Credit 1.* I and II. Brief history of the dance; practice in technique and composition; selection and manipulation of materials for composition.

473. PHYSIOLOGY OF MUSCULAR EXERCISE. (3-0) *Credit 3.* I. The affects of Physical Education activities on the tissues system, organs of the body. Prerequisites: Junior standing.

483. INTRAMURAL SPORTS. (3-0) *Credit 3.* I and II. Methods of organizing and running off tournaments, meets and field days; organization and administration of the intra-mural program in high school.

HEALTH EDUCATION COURSES

203. PERSONAL HYGIENE. (3-0) *Credit 3.* I and II. Personal health problems; biological basis of life; attitudes toward health, fatigue, ventilation and habit forming drugs. Required of all majors and minors.

243. METHODS AND MATERIALS OF HEALTH INSTRUCTION. (3-0) *Credit 3.* II. The sources of material and techniques in the field. Required of all majors and minors.

253. HEALTH EDUCATION. (3-0) *Credit 3.* I. The three phases of school health; significance of safety and daily programs.

353. PUBLIC SCHOOL AND COMMUNITY HYGIENE. (3-0) *Credit 3.* I and II. Health problems related to the school and community.

393. PRINCIPLES OF HEALTH. (3-0) *Credit 3.* II. Programs now in operation; evaluation in terms of various hygiene and scientific criteria. Required of all majors.

DEPARTMENT OF SOCIOLOGY AND SOCIAL SERVICE

Students majoring in this department will complete thirty semester hours of either Sociology or Social Service together

with twenty-four semester hours distributed over the following fields:

Economics	6 hours
History	9 hours
Political Science	6 hours
Geography or Philosophy	3 hours

For a minor in the department one must earn 18 semester hours.

SUGGESTED PROGRAM FOR A MAJOR IN SOCIOLOGY

FRESHMAN YEAR

First Semester	Hrs.	Second Semester	Hrs.
European History 113	3	European History 123	3
Europe, 1500-1815		Europe 1815-1914	
English 113	3	English 123	3
Grammar and Composition		Grammar and Composition	
Natural Science 113	3	Natural Science 123	3
College Science		College Science	
Mathematics 113	3	Mathematics 123	3
College Algebra		College Algebra	
Orientation 103	3	Intro. Education 113	3
Military Science 111 (Men)	1	Military Science 121 (Men)	1
Elementary or		Elementary or	
Physical Education 111 (Women)	1	Physical Education 121 (Women)	1
Freshman Practice		Freshman Practice	
Industry 112	2	Industry 122	2
	<hr/>		<hr/>
	18		18

SOPHOMORE YEAR

First Semester	Hrs.	Second Semester	Hrs.
Foreign Language 113	3	Foreign Language 123	3
Elementary French or		Elementary French or	
Elementary Spanish		Elementary Spanish	
History 213	3	Political Science 263	3
The United States		American National Government	
English 223	3	Sociology 223	3
Introduction to Literature		Introductory Sociology	
Sociology 213	3	English 213	3
Introductory to Sociology		Public Speaking	
Education 273	3	Education 283	3
Pupil Growth and Development		Pupil Growth and Development	
Military Science 211	1	Military Science 221	1
Elementary, or		Elementary or	
Physical Education 211 (Women)	1	Physical Education 221 (Women)	1
Sophomore Practice		Sophomore Practice	
	<hr/>		<hr/>
	16		16

JUNIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Foreign Language 213	3	Foreign Language 221	3
Reading and Grammar Review		Reading and Grammar Review	
(French) or Advanced Grammar		(French) or Advanced Grammar	
and Reading (Spanish)		and Reading (Spanish)	
Economics 213	3	Economics 223	3
Principles of Economics		Principles of Economics	
Sociology 333	3	Sociology 313	3
Social Psychology		Social Statistics	
Education Elective	3	Sociology 303	3
Political Science 203	3	The Family	
American Government		Education, Elective	
Military Science 313		Military Science 323	3
Advanced		Advanced	
	<hr/>		<hr/>
	15 or 18		15 or 18

SENIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Sociology 463	3	Sociology 453	3
Social Research		Supervised Field Work	3
Sociology 483	3	Sociology, Elective	3
Social Theory		Education 303, or 403	3
Sociology, Elective	3	Student Teaching	
Education, Elective	3	Education, Elective	3
Physical Education Theory	3	Physical Education Theory	3
Military Science 418		Military Science 423	3
Advanced		Advanced	
	<hr/> 15		<hr/> 15

SUGGESTED PROGRAM FOR A MAJOR IN SOCIAL SERVICE*

FRESHMAN YEAR

(See Sociology)

SOPHOMORE YEAR

(See Sociology)

JUNIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Foreign Language 213	3	Foreign Language 223	3
Sociology 373	3	Sociology 403	3
Introduction to the Field of Social Work		Introduction to Social Case Work	3
Sociology 333	3	Sociology 303	3
Social Psychology		The Family	
Economics 213	3	Sociology 313	3
Principles of Economics		Social Statistics	
Education, Elective	3	Economics 223	3
	<hr/> 15	Principles of Economics	
			<hr/> 15

SENIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Sociology 463	3	Sociology 453	3
Social Research		Supervised Field Work	3
Sociology 423	3	Sociology 433	3
Introduction to Social Group Work		Community Organization	3
Sociology 493	3	Education 303 or 403	3
Problems of Child Welfare		Student Teaching	
Education, Elective	6	Education, Elective	3
	<hr/> 15	Physical Ed. Theory	3
			<hr/> 15

DESCRIPTION OF COURSES

SOCIOLOGY

213. INTRODUCTORY SOCIOLOGY. (3-0) *Credit 3.* I. General phenomena of human society emphasizing fundamental social processes and social problems.

223. INTRODUCTORY SOCIOLOGY. (3-0) *Credit 3.* II. Continuation of Sociology 213; institutional structure and function, fundamental social processes and social problems.

233. RURAL SOCIOLOGY. (3-0) *Credit 3.* I. Analysis of structure and function of rural society, its people, institutions, communities, and problems. Prerequisites: Sociology 213 or Introduction to Social Science.

* In May, 1951 the Social Service program of Prairie View A. & M. College was approved by the National Association of Schools of Social Administrations which at that time admitted Prairie View to membership.

DEPARTMENT OF MILITARY SCIENCE AND TACTICS

Instruction in Military Science and Tactics at this institution is a part of the Officer Procurement Program of the Armed Forces of the United States. Under provisions of the National Defense Act of 1920 as amended, an Infantry, Senior Division ROTC Unit, Class CC (Civilian College) is established and maintained at this College. All Instruction and training in Military Science and Tactics is conducted by Regular Army personnel stationed at Prairie View A. & M. College, and in accordance with requirements of pertinent Army Training Programs prescribed by the Department of the Army, Washington, D. C.

Instruction and training in Military Science and Tactics is offered in two categories, namely, the Basic Course, and Advanced Course. Basic Course training is offered at Freshman and Sophomore levels and it includes elementary military subjects. The course is required of all able-bodied male students in the College except veterans. The course yields college credit which is applied toward graduation. Successful completion of the first-year and second-year Basic Course fulfils one of the college requirements for graduation and normally qualifies the student for appointment as a non-commissioned officer in the Enlisted Reserve Corps, United States Army. Advanced Course training is offered at the Junior and Senior levels and it includes instruction in advanced Military Science and Tactics. Enrollment in the Advanced Course is limited to students who complete successfully the Basic Course or who are veterans of the Armed Forces, discharged after one or more years of honorable military service. Students in the Advanced Course are selected by the President of the College and the Professor of Military Science and Tactics. Successful completion of the Advanced Course normally will result in the tender of a Commission as Second Lieutenant, Infantry, United States Army Reserve. Outstanding students may be designated as Distinguished Military Students and may during the last year in ROTC be recommended for appointment as Second Lieutenants in the Regular Army on graduation from College. In addition, the Professor of Military Science and Tactics may recommend

certain senior ROTC students for a one-year Competitive Tour of Active Duty, successful completion of which will qualify the student for appointment as Second Lieutenant in the Regular Army.

ADVANCED COURSE

PAY

Students enrolled in the Advanced Course will receive a commutation of subsistence at a rate prescribed by the Secretary of the Army. Based upon the present cost of the Army Garrison Ration, the amount is computed at about ninety cents (\$.90) per day and about twenty-seven dollars (\$27.00) per month. Advanced students are required to attend one summer ROTC camp and will receive as pay about seventy-five dollars (\$75.00) and travel allowance. Total pay and allowances for an Advance Course student is about seven hundred and fifty dollars (\$750.00).

GRADUATION

The advanced course, together with the required summer camp, becomes a requirement for graduation for every student electing such course unless he is released from the ROTC. The student can be sooner discharged for convenience of the Government or may voluntarily withdraw from the advanced course for his own convenience, provided he refunds to the Government any sums previously paid to him as commutation of subsistence, under the terms of his contract.

DEFERMENT

Students enrolled in ROTC may be granted a Military Deferment from induction for service under the Universal Military Training and Service Act of 1951. Such deferment when granted, will be in force so long as the student meets academic, military and other standards, and until completion or termination of the course of study in Military Science and Tactics. Thereafter, so long as the student meets academic, military and other standards, and until completion or termination of the course of study in Military Science and Tactics. Thereafter, so long as the individual remains in an active Regular or Reserve status in the Armed Forces, he will be continued in deferment.

COURSES OFFERED IN MILITARY SCIENCE AND TACTICS

ELEMENTARY COURSES

111, 121. (4-0) *Credit 1.* I and II. Military Organization; Military Policy of the United States; National Defense Act and ROTC; Evolution of Warfare; Maps and Aerial Photographs; Individual Weapons and Marksmanship; First Aid and Hygiene; Military Problems of the United States; Leadership, Drill and Exercise of Command.

211, 221. (4-0) *Credit 1.* I and II. Tactics and Technique of Infantry; Leadership, Drill and Exercise of Command.

ADVANCED COURSE

313, 323. (5-0) *Credit 3.* I and II. Tactics and Technique of Infantry; Leadership, Drill and Exercise of Command.

413, 423. (5-0) *Credit 3.* I and II. Military Administration and Personnel Management; Military Teaching Methods; Psychological Warfare; Tactics and Technique of Infantry; Geographical Foundation of National Power; Leadership Drill and Exercise of Command.

GRADUATION

The advanced course, together with the required summer camp, becomes a requirement for graduation for every student electing such course unless he is released from the ROTC. The student can be sooner discharged for convenience of the Government or may voluntarily withdraw from the advanced course for his own convenience, provided he returns to the Government any sums previously paid to him as donation of subsistence, under the terms of his contract.

DETERMENT

Students enrolled in ROTC may be granted a Military Detachment from induction for service under the Universal Military Training and Service Act of 1951. Such detachment when granted will be in force so long as the student meets academic, military and other standards and until completion or termination of the course of study in Military Science and Tactics. Thereafter, so long as the student meets academic, military and other standards and until completion or termination of the course of study in Military Science and Tactics. Thereafter, so long as the individual remains in an active Regular or Reserve status in the Armed Forces, he will be continued in detachment.

SCHOOL OF ENGINEERING

The School of Engineering offers Four-Year Curriculums in Architectural Engineering, Civil Engineering, Electrical Engineering, Mechanical Engineering, each leading to the degree of Bachelor of Science in the particular branch of the profession selected.

These programs of study provide an opportunity for broad scientific education with the proper amount of specialization in the respective fields of study. They are designed to train students thoroughly in mathematics, the physical sciences, and engineering principles, and to teach them to apply these fundamentals to the various types of problems that are encountered in engineering practice. Laboratory work and problem courses are provided so that the student may learn more readily the applications of these fundamentals to the solution of real engineering problems. The courses are Professional Engineering courses, and are planned to prepare for design, research, operation, management, testing, or maintenance of engineering projects. In addition to these technical objectives, there is the further objective that the training shall equip the graduates of the school for positions of responsibility in business and public affairs.

The first year's program is the same for all curriculums. To a limited extent, substitutions may be made for courses listed as required where there appears to be a good reason for them. Each substitution must have the approval of the Dean of the School.

OBJECTIVES

ARCHITECTURAL ENGINEERING

The curriculum in Architectural Engineering is designed to give the student practical and theoretical training in Architecture and Building Construction. Although it emphasizes the structural and mechanical phases of architecture, it includes architectural design, properties and uses of building materials, estimating construction costs, specification writing, and other

phases important to the architectural profession. The aim is to prepare men for careers in the construction industry as: Draftsmen, Designers, Estimators and Building Supervisors, and provide them with the necessary foundation for future independent architectural practice.

Students selecting this option should get practical experience during the summer, either on construction projects or in the office of an Architect or Engineer.

CIVIL ENGINEERING

The field covered by Civil Engineering is wide, embracing surveying, highway, hydraulic, structural, sanitary, and construction engineering. It is the aim of this curriculum to give broad general training, which will serve as a foundation for technical, administrative and commercial positions, both private and governmental. The training is largely fundamental in nature, but sufficient detailed practice is included to enable the graduate to occupy immediately a productive, remunerative position in the field of Civil Engineering.

ELECTRICAL ENGINEERING

The curriculum in Electrical Engineering is intended to prepare students for entry into one of the many branches of the electrical industry, such as manufacturing, transportation, electrical power, wire and radio communication. In any of these fields, the engineer may engage in design, construction, repair and maintenance, administration, or he may deal with the commercial aspects of Industry. By arranging certain substitutes and taking some extra work, the student may qualify for teaching Mathematics and Science.

MECHANICAL ENGINEERING

This curriculum offers training in the scientific principles underlying Mechanical Engineering, and correlates this by application to specific fields of machine design, heat, power, heating, ventilating, and air conditioning, refrigeration, power plants, and industrial management.

Lectures and class instruction are supplemented by shop practice and laboratory investigations, designed to emphasize

the engineering and economic principles involved. Students selecting this option should spend at least two summers in some shop or plant doing mechanical work.

GRADUATION REQUIREMENTS

The requirements for graduation from the School of Engineering are the satisfactory completion of all courses in one of the prescribed curricula, with a C average.

ENGINEERING COURSES

UNIFORM FRESHMAN YEAR*

First Semester	Hrs.	Second Semester	Hrs.
Mathematics 113	3	Mathematics 213	3
College Algebra		Analytical Geometry	
Mathematics 123	3	English 123	3
Trigonometry		Reading and Composition	
Chemistry 114	4	Chemistry 124	4
Inorganic Chemistry		Inorganic Chemistry	
General Engineering 113	3	General Engineering Drawing 122	2
Engineering Drawing I		Descriptive Geometry	
General Engineering 111	1	General Engineering 162	2
Engineering Lectures		Engineering Problems and Slide Rule	
English 112	3	Civil Engineering 122**	2
Grammar and Composition		Elementary Surveying	
Military Science 111	1	Military Science 121	1
Elementary or		Elementary or	
Physical Education 111	1	Physical Education 121	1
Freshman Practice (Women)		Freshman Practice (Women)	
	18	Architecture 131***	1
		Shades, Shadows and Perspective	
			18

ARCHITECTURAL ENGINEERING

SOPHOMORE YEAR

First Semester	Hrs.	Second Semester	Hrs.
Mathematics 224	4	Mathematics 314	4
Differential Calculus		Integral Calculus	
Physics 215	5	Physics 225	5
Engineering Physics I		Engineering Physics II	
English 223	3	Civil Engineering 243	3
Composition and Literature		Statics	
Architecture 213	3	Architecture 223	3
Elements of Architecture I		Elements of Architecture II	
Architecture 222	2	Civil Engineering 122	2
Freehand Drawing II		Elementary Surveying	
Military Science 211	1	Military Science 221	1
Elementary or		Elementary or	
Physical Education 211	1	Physical Education 221	1
Sophomore Practice (Women)		Sophomore Practice (Women)	
	18		18

* Freshman year is the same for all four-year curricula in Engineering.

** Architectural Engineering students will take Architecture 212, Freehand Drawing, Mechanical Engineering students will take Mechanical Engineering 112, Welding and Heat Treatment

*** Required only of Architectural students.

JUNIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Political Science 203	3	Civil Engineering 343	3
State Government		Engineering Materials	
Civil Engineering 313	3	Civil Engineering 322	2
Strength of Materials		Materials Testing Lab.	
Architecture 314	4	Architecture 343	3
Architectural Design		History of Architecture II	
Architecture 372	2	Architecture 383	3
Building Equipment		Building Construction	
English 213	3	Architecture 324	4
Public Speaking		Architectural Design	
Architecture 333	3	Civil Engineering 323	3
History of Architecture I		Structural Analysis I	
Military Science 313	3	Military Science 323	3
Advanced		Advanced	
	18 19 or 22		18 or 21

SENIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Economics 213	3	Architecture 443	3
Principles of Economics		Architectural Design	
Architecture 433	3	Mechanical Engineering 424	4
Architectural Design		Heating, Ventilation, and	
Architecture 363	3	Air-Conditioning	
Working Drawing and Specifications		Architecture 373	3
Electrical Engineering 453	3	Working Drawing and Specifications	
Wiring and Illumination		Civil Engineering 425	5
Civil Engineering 432	2	Structural Design	
Structural Analysis II		Political Science 263	3
Civil Engineering 413	3	National Government	
Reinforced Concrete and		Military Science 423	3
Masonry structures		Advanced	
Architecture 452	2		
Architectural Practice			
Military Science 413	3		
Advanced			
	19 or 22		18 or 21

Number of hours for graduation—145

CIVIL ENGINEERING

SOPHOMORE YEAR

First Semester	Hrs.	Second Semester	Hrs.
Mathematics 224—Differential Calculus ...	4	Mathematics 314—Integral Calculus ...	4
Physics 215—Engineering Physics	5	Physics 225—Engineering Physics	5
English 223—Comp. and Literature	3	Civil Engineering 223	3
General Engineering 212	2	Advanced Surveying	
Engineering Drawing II		Civil Engineering 243—Statics	3
Civil Engineering 213	3	Mechanical Engineering 242	2
Topographic Surveying		Welding, Heat Treatment and	
Military Science 211—Elementary or ...	1	Foundry Practice	
Physical Education 211	1	Military Science 221—Elementary or ...	1
Sophomore Practice (Women)		Physical Education 221	1
	18	Sophomore Practice (Women)	
			18

JUNIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Civil Engineering 314	4	Civil Engineering 323	3
Strength of Materials		Structural Analysis I	
Political Science 263	3	English 213—Public Speaking	3
National Government		Civil Engineering 343—Eng. Materials ...	3
Civil Engineering 333—Dynamics	3	Civil Engineering 322	2
Mechanical Engineering 312	2	Materials Testing Lab.	
Machine Shop and Tool Design		Civil Engineering 363	3
Civil Engineering 353—General Geology ...	3	Fluid Mechanics	
Economics 213	3	Civil Engineering 321	1
Principles of Economics		Hydraulics Lab.	
Military Science 313—Advanced	3	Civil Engineering 324—Soil Engineering ...	4
	18	Military Science 323—Advanced	3
			19

SENIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Bacteriology—Water and Sewage	3	Electrical Engineering 311	1
Civil Engineering 412	2	Electrical Engineering Lab.	
Water Supply Engineering		Electrical Engineering 303	3
Mechanical Engineering 423	3	Principles of DC and AC Machinery	
Heat Power Engineering		Civil Engineering 423	3
Civil Engineering 433	3	Contracts, Specifications and Engineering Reports	
Highway Engineering		Civil Engineering 422—Sewerage	2
Political Science 203	3	Civil Engr. 425—Structural Design	5
State Government		Civil Engineering 443	3
Civil Engr. 432—Structural Analysis II	2	Engineering Construction	
Civil Engineering 413	3	Military Science 423—Advanced	3
Reinforced Concrete and Masonry Structures			
Military Science 413—Advanced	3		
	<hr/>		<hr/>
	19		17

Number of hours required for graduation—145

ELECTRICAL ENGINEERING

SOPHOMORE YEAR

First Semester	Hrs.	Second Semester	Hrs.
Mathematics 224	4	Mathematics 314	4
Differential Calculus		Integral Calculus	
Physics 215	5	Physics 225	5
Engineering Physics I		Engineering Physics II	
English 223	3	Civil Engineering 243	3
Composition and Literature		Statics	
General Engineering 212	2	Mechanical Engineering 242	2
Engineering Drawing II		Welding, Heat Treatment and Foundry Practice	
Mechanical Engineering 312	2	Electrical Engineering 213	3
Machine Shop and Tool Design		Basic Electrical Engineering	
Military Science 211	1	Military Science 221	1
Elementary or		Elementary or	
Physical Education 211	1	Physical Education 221	1
Sophomore Practice (Women)		Sophomore Practice (Women)	
	<hr/>		<hr/>
	17		18

JUNIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Electrical Engineering 314	4	Civil Engineering 343	3
A. C. Circuits		Engineering Materials	
Electrical Engineering 333	3	Political Science 263	3
D. C. Machinery		National Government	
Electrical Engineering 311	1	English 213	3
D. C. Lab.		Public Speaking	
Mathematics 423	3	Electrical Engineering 373	3
Differential Equations		Electrical Measurements	
Civil Engineering 314	4	Electrical Engineering 371	1
Strength of Materials		Electrical Measurements Lab.	
Electrical Engineering 343	3	Electrical Engineering 383	3
Electronics I		Electronics II	
Electrical Engineering 341	1	Electrical Engineering 381	1
Electronics I Lab.		Electronics II Lab.	
Military Science 313	3	Civil Engineering 322	2
Advanced		Materials Testing Laboratory	
		Military Science 323	3
		Advanced	

19 or 21

19 or 22

SENIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Electrical Engineering 413	3	Mechanical Engineering 463	3
A. C. Machinery I		Industrial Management	
Electrical Engineering 412	2	Civil Engineering 333	3
A. C. Lab.		Dynamics	
Electrical Engineering 463	3	*Mechanical Engineering 423	3
Electrical Design		Heat Power Engineering	
Mechanical Engineering 314	4	*Mechanical Engineering 411	1
Thermodynamics		Heat Power Lab.	
Economics 203	3	Political Science 203	3
Survey of Economics		State Government	
Electrical Engineering 453	3	Business Adm. 463	3
Illumination		Business Law	
Military Science 413	3	Electrical Engineering 473	3
Advanced		Wire Communication	
		Military Science 423	3
	18 or 21		19 or 22

Number of hours required for graduation—145

MECHANICAL ENGINEERING

SOPHOMORE YEAR

First Semester	Hrs.	Second Semester	Hrs.
Mathematics 224—Differential Calculus ...	4	Mathematics 314—Integral Calculus	4
Physics 215—Engineering Physics I	5	Physics 225—Engineering Physics II	5
English 213—Public Speaking	3	English 223	3
General Engineering 212	2	Composition and Literature	
Engineering Drawing II		Mechanical Engr. 362—Foundry	2
Mechanical Engineering 351	1	Civil Engineering 243—Statics	3
Pattern Making		Military Science 221	1
Civil Engineering 122	2	Elementary or	
Elementary Surveying		Physical Education 221	1
Military Science 211—Elementary or	1	Sophomore Practice (Women)	
Physical Education 211	1		
Sophomore Practice (Women)			
	18		18

JUNIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Civil Engineering 314	4	Civil Engineering 343	3
Strength of Materials		Engineering Materials	
Mechanical Engineering 333	3	Civil Engineering 322	2
Mechanism		Materials Testing Lab.	
Mechanical Engineering 314	4	Electrical Engineering 213	3
Thermodynamics		Basic Electrical Engineering	
Pol. Sci. 263—National Government	3	Civil Engr. 363—Fluid Mechanics	3
Economics 203—Survey of Economics	3	Civil Engr. 333—Dynamics	3
Machine Shop 222	2	Mechanical Engineering 323	3
Machine Tool Work		Heat Power Engineering	
Military Science 313—Advanced	3	Mechanical Engineering 322	2
		Heat Power Lab.	
		Military Science 323—Advanced	3
	19 or 21		19 or 22

SENIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Electrical Engineering 333	3	Electrical Engineering 413A	3
D. C. Machinery		A. C. Circuits and Machinery	
Electrical Engineering 311	1	Electrical Engineering 412	2
D. C. Lab.		A. C. Lab.	
Mechanical Engineering 415	5	Mechanical Engineering 424	4
Machine Design		Heat and Air-Conditioning	
Mechanical Engineering 413	3	Political Science 203	3
Mechanical Engineering Lab.		State Government	
Business Administration 463	3	Mechanical Engineering 463	3
Business Law		Industrial Management	
Mechanical Engineering 343	3	Mechanical Engineering 443	3
Internal Combustion Engines		Power Plant Engineering	
Military Science 413	3	Military Science 423	3
Advanced		Advanced	
	18 or 21		18 or 21

Number of hours required for graduation—145

* Students may substitute Fluid Mechanics and Hydraulics Laboratory for these subjects upon approval of the Dean of the School of Engineering.

DESCRIPTION OF COURSES

ARCHITECTURAL ENGINEERING

131. SHADES, SHADOWS AND PERSPECTIVE. (0-1) *Credit 1.* I and II. The conventional shades and shadows of common geometrical solids and architectural members; the theory of perspective as applied to simple solids and problems from architectural practice.

212-222. FREEHAND DRAWING. (0-6) *Credit 2.* I and II. Drawing of plants and objects; drawing from life in charcoal and pencil; training of eye and hand; application in architectural presentation and drawing.

213-223. ELEMENTS OF ARCHITECTURE. (0-9) *Credit 3.* I and II. Fundamentals of architectural design by their application in the original solution and presentation of simple architectural problems.

242-243-253. ARCHITECTURAL DRAWING. (0-6) (0-9) (0-6) *Credit 2, 3, 2.* I and II. Architectural symbols and details; simple working drawings.

244-263. ARCHITECTURAL DRAFTING. (0-12) (0-9) *Credit 4, 3.* II. Continuation of courses 242 and 243 with elementary problems in architectural design.

314-324. ARCHITECTURAL DESIGN. (0-12) *Credit 4.* I and II. Design of small buildings; development of plan, based on definite requirements, fenestration, influence of materials and construction on design; preparation of working drawings. Prerequisite: G. E. 222.

333-343. HISTORY OF ARCHITECTURE. (3-0) *Credit 3.* I and II. The development of architecture as related to human habitation; ancient, medieval, and modern architecture.

363-373. WORKING DRAWINGS. (0-9) *Credit 3.* I and II. Preparing complete working drawings and specifications for a small building.

372. BUILDING EQUIPMENT. (2-0) *Credit 2.* I. Plumbing, sanitation systems, mechanical and electrical equipment of buildings.

383. BUILDING CONSTRUCTION. (3-0) *Credit 3.* II. Common methods of building construction; occasional visits to buildings under construction. Prerequisite: Civil Engineering 213.

410. INSPECTION TRIP. *No Credit.* Required of all Seniors.

433-443. ARCHITECTURAL DESIGN. (0-9) *Credit 3.* I. Continuation of Architecture 323, advanced problems, time problems, and rapid sketches at frequent intervals.

452. ARCHITECTURAL PRACTICE. (0-6) *Credit 2.* I. Special problems in architectural design and development; the preparation of building documents; interpretation of building codes, and analysis of documents; interpretation of the American Institute of Architects; office organization, client and contractor relationships.

CIVIL ENGINEERING

122. ELEMENTARY SURVEYING. (0-6) *Credit 2.* II. Use of tape and chain, engineer's level and transit; methods of surveying in field practice. Prerequisite: G. E. 113 and Mathematics 123.

213. TOPOGRAPHIC SURVEYING. (1-6) *Credit 3*. I. Use of tap, transit and level; complete topographic survey, using the stadia method and plane table; astronomical observations for azimuth, time and latitude; drafting of topographic maps from field notes. Prerequisite: Civil Engineering 122.

223. ADVANCED SURVEYING. (2-3) *Credit 3*. II. Horizontal vertical alignment for railways and highways; grades and grade reduction; curves, turnouts, and earthwork, principles of economic location surveys, plans and estimates. Prerequisite: Civil Engineering 213.

243. APPLIED MECHANICS I—STATICS (3-0) *Credit 3*. II. Composition and resolution of forces; systems of forces in equilibrium; laws of friction; centers of gravity; moments of inertia; special problems to illustrate the application of theory to engineering. Prerequisite: Physics 225 and enrollment in Mathematics 314.

311. GRAPHIC STATICS. (0-3) *Credit 1*. II. Graphical stress analysis of simple roof trusses and three hinged arches. This course is coordinated with Civil Engineering 323. Prerequisite: Civil Engineering 243.

313. STRENGTH OF MATERIALS. (0-3) *Credit 3*. I. Engineering properties and behavior of standard engineering materials in stress strain tension and compression, torsion, shear, and moment, combined stresses and deflection; riveted joints, stresses in columns and the design of beams; use of engineering handbooks. Prerequisite: Civil Engineering 243.

321. HYDRAULICS LABORATORY. (0-3) *Credit 1*. II. Measurement of flow, friction in pipes, pumping and power. Prerequisite: Registration in Civil Engineering 363.

322. STRENGTH OF MATERIALS LABORATORY. (0-3) *Credit 3*. II. The testing of materials. Prerequisite: Civil Engineering 313, and registration in Civil Engineering 343.

323. STRUCTURAL ANALYSIS I. (3-0) *Credit 3*. I. Analysis of stresses in statically determinate structures. Prerequisite: Civil Engineering 243.

324. SOIL ENGINEERING. (2-6) *Credit 4*. II. Description, origin, structure, identification and classification of soils for engineering purposes; determination and application of their physical properties. Prerequisite: Civil Engineering 313.

333. APPLIED MECHANICS II—DYNAMICS. (3-0) *Credit 3*. II. Velocities and accelerations of various types of mechanics, rectilinear, and curvilinear translation of particles and rigid bodies, rotation of rigid bodies about fixed axis, work energy and power, impulse and momentum, moments and products of inertia, and rigid bodies; elementary problems in vibration. Prerequisite: Civil Engineering 243.

343. ENGINEERING MATERIALS (3-0) *Credit 3*. I. Constituents, properties and manufacture of standard structural materials. Prerequisites: Chemistry 144 and registration in Civil Engineering 313.

344. ANALYSIS AND DESIGN OF SIMPLE STRUCTURES. (2-6) *Credit 4*. II. Analysis, design and cost estimates for simple buildings, girders, and trusses of steel; reinforced concrete and timber; economic selection and specifications of members and elements. Prerequisite: Civil Engineering 313.

353. GEOLOGY. (3-0) *Credit 3*. II. General principles of geology and their application to engineering problems. Prerequisite: Chemistry 124.

363. FLUID MECHANICS. (3-0) *Credit 3*. I. The laws governing the action of fluids at rest and in motion, as related to engineering problems; the measurement of the flow of fluids; the description and theory of reaction turbines, impulse wheels and centrifugal pumps. Prerequisite or parallel: Civil Engineering 243.

410. INSPECTION TRIP. *Non Credit Course*; required of all seniors.

412. WATER SUPPLY ENGINEERING. (0-6) *Credit 2*. I. Finances, hydraulics, demands, resources, reservoirs, pipe lines, pumping machinery, materials, distribution systems. Prerequisite: Civil Engineering 363.

413. REINFORCED CONCRETE. (2-0) *Credit 3*. I. Properties of concrete, effect of water cement ratio, design of beams and floor systems; rigid frame construction, columns, retaining walls, masonry dams, and pile footings. Prerequisite: Civil Engineering 313.

414. STRUCTURAL DESIGN. (2-6) *Credit 4*. I. Theory of design and design of framed structures. Primarily building design. Prerequisite: Civil Engineering 313.

422. SEWERAGE. (0-6) *Credit 2*. II. Sewerage systems, surveys and plants, hydraulics, house sewerage, rainfall and storm-water flow, size and capacity of sewers, appurtenances, estimates, and specifications construction. Prerequisite: Civil Engineering 363.

423. CONTRACTS, SPECIFICATIONS AND ENGINEERING REPORTS. (3-0) *Credit 3*. II. A study of contracts, specifications and reports required by engineers; preparation of documents. Prerequisite: Senior standing.

425. STRUCTURAL DESIGN. (3-6) *Credit 5*. II. Design of Civil Engineering structures. Welded and riveted connections. Working drawings including the necessary details for actual construction, economic considerations, the correlation of analysis and design. Mostly steel and timber structures. Prerequisite: Civil Engineering 432.

432. STRUCTURAL ANALYSIS II. (2-0) *Credit 2*. I. Continuation of Civil Engineering 323. Prerequisite: Civil Engineering 323.

433. HIGHWAY ENGINEERING. (2-3) *Credit 3*. I. Highway laws and the administration of street and highway improvements; the design and construction of streets and highways. Prerequisite: Civil Engineering 324.

443. ENGINEERING CONSTRUCTION. (3-0) *Credit 3*. II. Management of construction projects; methods of construction, equipment, form design, quantity take-offs and estimating; frequent visits to building projects. Prerequisite: Senior standing.

463. FOUNDATIONS. (3-0) *Credit 3*. II. Design of foundations for pavements, bridges, and buildings. Prerequisite: Civil Engineering 343.

FOR GRADUATE AND UNDERGRADUATE CREDIT

503. EARTH AND MASONRY STRUCTURES. (2-3) *Credit 3*. I, II. Design and construction of dams, retaining walls, abutments and piers, culverts, grain elevators and bins.

513. PUBLIC HEALTH ENGINEERING. (3-0) I. Design of water purification works and principles of sanitation.

533. REINFORCED CONCRETE DESIGN. (2-3) *Credit 3*. I. Theories of action beams, slabs and columns of reinforced concrete; codes and specifications and their influence on design; effect of continuity.

563. STATICALLY INDETERMINATE STRUCTURES. (1-6) *Credit 3*. II. Outer forces, reactions, moments and shears for fixed and moving loads, the use of influence lines, the determination of deflections of structures by methods of moment areas, elastic loads, virtual work and Williot diagrams. Methods of solution for stresses in statically indeterminate structures by virtual work, slope deflection, and moment distribution. Continuous beams, trusses, building frames and arches. Prerequisite: Civil Engineering 323.

ELECTRICAL ENGINEERING

213. BASIC ELECTRICAL ENGINEERING. (3-0) *Credit 3*. II. Introduction to the fundamental principles underlying all branches of electrical engineering; the analysis of electric, magnetic, and electrostatic circuits. Prerequisite or parallel: Physics 125 and Mathematics 314.

303. PRINCIPLES OF ELECTRICAL ENGINEERING. (3-0) *Credit 3*. Prerequisite: Physics 225. The fundamental principles of direct-current and alternating-current circuits and machinery.

311. DIRECT-CURRENT MACHINERY LABORATORY. (3-0) *Credit 1*. I. Characteristics of direct-current machines. Prerequisite or parallel: Electrical Engineering 333.

313. INTRODUCTION TO CIRCUIT ANALYSIS. (3-0) *Credit 3*. I. Electric and magnetic units and circuits; graphical and mathematical treatment of periodic current circuits; special problems in alternating current network; electrostatic circuits; wave analysis. Prerequisite: Physics 215, 225; Math. 223, and registration in Math. 313.

314. ALTERNATING-CURRENT CIRCUIT. (4-0) *Credit 4*. I. A mathematical treatment of alternating-current phenomena in single and polyphase circuits. Prerequisite: Electrical Engineering 213.

333. DIRECT-CURRENT MACHINERY. (3-0) *Credit 3*. I. Principles of operation and characteristics of direct-current generators and motors. Prerequisite: Electrical Engineering 213.

341-381. ELECTRONICS LABORATORY. (0-3) *Credit 1*. I, II. Laboratory studies on the basic electronic circuits and characteristics and industrial electronic equipment.

343-383. ELECTRONICS RECITATION. (3-0) *Credit 3*. I and II. Fundamental principles of electronic tubes; study of electronic circuits, amplifiers, oscillators, and rectifiers. Prerequisite or parallel: Electrical Engineering 314.

371. ELECTRICAL MEASUREMENTS LABORATORY. (0-3) *Credit 1*. II. Measurement of resistance, current, electromotive force, capacity, inductance watts, and energy. Prerequisite or parallel: Electrical Engineering 373.

373. ELECTRICAL MEASUREMENTS RECITATION. (3-0) *Credit 3*. II. Methods for electrical and magnetic measurements; resistance, capacity, electromotive force, current, inductance, and power. Prerequisite: Electrical Engineering 314.

412. ALTERNATING-CURRENT MACHINERY LABORATORY. (0-6) *Credit 2.* I and II. Experiments illustrating the characteristics of alternating-current circuits and transformers. Prerequisite or parallel: Electrical Engineering 413.

413. ALTERNATING-CURRENT MACHINERY RECITATION. (3-0) *Credit 3.* I. Principles of design, construction, and operation of transformers, alternating-current generators, polyphase induction motors, synchronous motors, converters, rectifiers and accessory apparatus. Prerequisite: Electrical Engineering 314.

413A. ALTERNATING-CURRENT, CIRCUITS AND APPARATUS. (3-0) *Credit 3.* II. A special course in alternating-current circuits and machinery for mechanical engineering students. Prerequisite: Electrical Engineering 333.

453. WIRING AND ILLUMINATION. (3-0) *Credit 3.* I. Fundamentals of commercial and industrial wiring and illumination practice. Prerequisite: Senior standing in Electrical Engineering.

463. ELECTRICAL DESIGN. (2-3) *Credit 3.* I. A study of the details of electrical design; Station layouts, wiring diagrams, switchboards, installation of electrical machinery and equipment, oil circuit breakers, protective relays, and miscellaneous equipment. Two lecture-recitation periods, and one three-hour drafting room period per week. Prerequisite E.E. 413.

473. WIRE COMMUNICATION. (3-0) *Credit 3.* II. Principles of wire communication; telephone and telegraph switching systems, line loading, repeaters and carrier currents. Prerequisite: Electrical Engineering 314.

483. RADIO COMMUNICATION APPARATUS. (3-0) *Credit 3.* II. Fundamental circuits of and phenomena in radio communication apparatus; measurements of radio frequency circuit parameters; wave propagation; performance of transmitters and receivers. Prerequisite: Senior standing, Electrical Engineering.

493. ELECTRICAL COMMUNICATIONS LABORATORY. (0-9) *Credit 3.* I. Experimental methods in the solution of communication problems; theory and use of modern laboratory instruments; vacuum tubes and their circuits, artificial lines, and other networks, radio frequency and acoustical measurements; practice in designing and constructing components of communication systems. Prerequisite: Senior standing in Electrical Engineering, registration in Electrical Engineering 483.

FOR GRADUATE AND UNDERGRADUATE CREDIT

513. ADVANCED COMMUNICATION CIRCUIT ANALYSIS. (3-0) *Credit 3.* Theorems and properties of communication networks in steady-state and transient conditions.

523. ULTRA-HIGH FREQUENCIES. (3-0) *Credit 3.* I, II. Radio transmission and reception, including ultra-high frequency techniques.

533. ELECTRIC POWER GENERATION. (3-0) *Credit 3.* I, II. Economics and technique of electric power generation. Effect of load curve on costs; thermal efficiency and commercial economy of various heat cycles; general layout of the generating station; division of load among generating units; by-products generation.

574. TELEVISION. (3-3) *Credit 4.* I and II. Theory of scanning television, cathode-ray tubes, pulse generators, video amplifiers and circuits, and television transmitters and receivers. Prerequisite: Electrical Engineering 523.

GENERAL ENGINEERING

106. INDUSTRIAL DRAWING. (0-18) *Credit 6.* I. Technical sketching and mechanical drafting; graphic and pictorial drawings of building plans and mechanical equipment; blueprint reading; charts, graphs; and topographic drawing.

111. ENGINEERING LECTURES. (1-10) *Credit 1.* I. Fundamental principles of profession; a general survey of field; reviews of articles in the technical press; reports of engineering projects; industrial experiences and lectures by prominent men engaged in the profession.

113. ENGINEERING DRAWING. I. (1-6) *Credit 3.* I. Use of drafting instruments; freehand Gothic and Roman lettering (vertical and inclined); introductory orthographic projection; isometric drawing; freehand technical sketching, dimensioning, and tracing with pencil on vellum tracing paper, and in ink on tracing cloth.

122. DESCRIPTIVE GEOMETRY. (0-6) *Credit 2.* II. Principles of descriptive geometry, as related to the projection of points, lines, planes, and solids, and their applications to problems of engineering and architecture; development, intersections, double curved and warped surfaces. Prerequisite: Engineering Drawing 113.

152. SHEET-METAL DRAFTING. (0-6) *Credit 2.* I. Application of descriptive geometry to sheet-metal construction; intersections, developments, lofting problems and bend allowances. Prerequisite: General Engineering 122.

162. PROBLEMS AND SLIDE RULE. (1-3) *Credit 2.* II. Solution of simple engineering problems; use of the slide rule; and the correct form of presenting problem work.

173. MOTION PICTURE PROJECTION. (2-3) *Credit 3.* I. Operation and maintenance of 16 m.m. and 35 m.m. sound motion picture projectors; handling of film; use of modern booth accessories; actual operating experience in the College Theatre; inspection trips through theatre booths in the neighboring cities.

212. ENGINEERING DRAWING II. (0-6) *Credit 2.* I. Review of orthographic projection; working drawings, isometric, oblique, perspective, chart, and diagram, topographical, instrumental, and wiring diagrams.

222. PRODUCTION DRAFTING. (0-6) *Credit 2.* II. Applications of orthographic, pictorial and perspective drawing to assembly, disassembly and exploded views.

223. ENGINEERING DRAWING. III. (1-6) *Credit 3.* II. Continuation of General Engineering 212. Prerequisite: General Engineering 212.

263. SHOP MANAGEMENT. (3-0) *Credit 3.* II. Problems of the supervisory staff of an industrial enterprise such as selection and arrangement of equipment, standardization, routing and dispatching, cost and wage systems and other factors closely applied to production as well as job shop.

283. DRAFTING ROOM MANAGEMENT. (2-3) *Credit 3.* II. Organization and equipment of commercial drafting room; standards, orders, routing, checking alterations, filing, reproduction, library; and special problems in drafting.

313. ESTIMATING BUILDING COSTS. (3-0) *Credit 3.* I and II. Problems in the preparation of cost estimates from plans and specifications. Problems in comparative costs of construction, and preparation of costs for bids on construction projects.

FOR UNDERGRADUATE AND GRADUATE CREDIT

513. ADVANCED SHOP PRACTICE. (2-3) *Credit 3.* I. Opportunity is offered to specialize, to a limited degree, along such lines as heat treatment, machine tool work, welding, jib, fixtures, pattern making, and any shop work that may be of special interest to the student. All assignments must be approved by the Dean of the Engineering School.

523. SURVEY OF INDUSTRIAL PRODUCTS. (1-6) *Credit 3.* I and II. Survey of the design methods used in industry; methods of presentation; production methods; and client designer relations. Prerequisites: General Engineering 122 and Architecture 212.

562. ADVANCED DESCRIPTIVE GEOMETRY. (1-5) *Credit 2.* I, II. Graphical representation and the application of plane and space curves; advanced problems in single curved and doubled curved surfaces including the convolute and their developments; fundamentals of perspective and other pictorial means of representation.

MECHANICAL ENGINEERING

112. WELDING AND HEAT TREATMENT. (0-6) *Credit 2.* I. General metal work; gas and electric welding, the heat treatment of metals.

211-221. PATTERN MAKING, FOUNDRY AND WELDING. (0-3) *Credit 1.* I, II. Simple pattern layouts and construction of patterns; pattern storage; costs and weights of patterns and casting; kiln-drying and moisture fired furnaces; moulding sands; coremaking; foundry layouts; and practice in moulding and casting both ferrous and non-ferrous metals; gas and electric welding. Prerequisite: Chemistry 124.

212. WELDING ENGINEERING. (0-6) *Credit 2.* I or II. Welding processes; metallurgy, metallography, physical tests, and inspection of machines and structures. Prerequisite: Mechanical Engineering 112; sophomore standing.

222. HEAT TREATMENT OF METALS. (0-6) *Credit 2.* I or II. Heat Treatment and metallurgy of steel and non-ferrous alloys; heat treating operations; microstructure and physical properties; hardenability, grain size testing, and machineability; heat treating operations as applied in production. Prerequisite: Mechanical Engineering 112; Sophomore standing.

242. WELDING, HEAT TREATMENT AND FOUNDRY PRACTICE. (0-6) *Credit 2.* Similar to Mechanical Engineering 211 but designed for non-mechanical engineering students. Prerequisite: Chemistry 124.

312. MACHINE SHOP AND TOOL DESIGN. (0-6) *Credit 2.* I. An introduction to machine shop practice and tool design to meet the needs of non-mechanical engineering students. Prerequisite: Mathematics 123.

314. THERMODYNAMICS. (4-0) *Credit 4.* I. Transformation of energy, theoretical limitations; second law, absolute temperature, entropy and available energy; properties of gases, liquids, vapors and vapor mixtures. Prerequisite: Mathematics 224; Physics 215 and 225.

322. HEAT POWER LABORATORY. (0-6) *Credit 2.* II. Practical experience with steam engines, boilers, turbines, internal combustion engines, fuels and combustion, power plant equipment and air compressors.

323. HEAT POWER ENGINEERING. (3-0) *Credit 3.* II. Heat power engineering including steam engines, boilers, turbines, internal combustion engines, fuels and combustion, power plant equipment, and air compressors. Prerequisite: Mechanical Engineering 314.

333. MECHANISM. (3-0) *Credit 3.* I. Elements of machinery with references to the transmission of motion, and force, cams, gears; graphical construction; kinetics; balancing; arrangement in actual machines. Prerequisite: Mathematics 123.

343. INTERNAL COMBUSTION ENGINES. (3-0) *Credit 3.* II. Fundamentals of internal combustion engines; cycles capacity, efficiency, thermodynamics, combusting and operating conditions.

351. PATTERN MAKING. (0-3) *Credit 1.* I. Design and production of wood and metal patterns; core making. Prerequisite: General Engineering 223, Mechanical Engineering 112.

362. FOUNDRY. (0-6) *Credit 2.* II. Floor bench, and machine moulding; brass furnace and cupola practice; metallurgy of gray iron; sand testing. Prerequisite: General Engineering 223, Junior standing.

411. HEAT POWER LABORATORY. (0-3) *Credit 1.* I and II. Heat power equipment for non-mechanical engineering students.

413. MECHANICAL ENGINEERING LABORATORY. (1-6) *Credit 3.* I. Instruments and tests of steam prime movers, boilers, pumps, fans, internal combustion engines, air compressors, air conditioning equipment, and flow of compressible media; engineering reports.

415. MECHANICAL ENGINEERING DESIGN. (3-6) *Credit 5.* II. Design of machinery subjected to heavy variable stresses. Prerequisite: Civil Engineering 322 and 313; Mechanical Engineering 333.

423. HEAT ENGINEERING. (3-0) *Credit 3.* II. Principles of thermodynamics; properties of gasses; saturated and superheated vapors; fuels, combustion and flue gas analysis; steam boilers, engines, and their auxiliaries; steam turbines; condensers, pumps, compressed air and internal combustion engines. Prerequisite: Senior standing in Civil or Electrical Engineering.

424. HEATING, VENTILATING AND AIR CONDITIONING. (3-3) *Credit 4.* II. Steam boilers and water heaters; direct and indirect heating, gravity systems; district heating, ventilation on air analysis; air conditioning. Prerequisite: Mechanical Engineering 314.

443. POWER PLANT ENGINEERING. (1-6) *Credit 3.* II. Study and operation of modern steam power plant. Prerequisite: Mechanical Engineering 413 and Senior standing.

463. INDUSTRIAL MANAGEMENT. (3-0) *Credit 3.* II. Problems of the industrial executive; organization; plant location; selection and arrangement of buildings and equipment; production planning and control;

simplification and standardization; time and motion study; job methods standardization; control of inventory and costs; personnel and problems and business policy.

FOR GRADUATE AND UNDERGRADUATE CREDIT

503. REFRIGERATION. (3-0) *Credit 3.* I or II. The application of thermodynamics to problems of refrigeration; types of refrigerating machines and plants, refrigerants, ice making, cold storage, cooling of air, liquids, and solids; construction details of commercial and household refrigerating plants and their economic operation.

523. FLOW OF FLUIDS AND HEAT TRANSFER. (3-0) *Credit 3.* I or II. Review of first and second laws of thermodynamics, compressors, refrigeration cycles; the design of apparatus for heat transfer by conduction, convection, and radiation; heat exchanges, air preheaters, economizers, evaporators, boilers and condensers, transformation of heat and work.

1. Those who wish to enter their general and cultural education by electing courses from the Home Economics Curriculum.
 2. Those who wish to take a minor in Home Economics.
 3. Those who wish to become teachers in home-making in High School or some phase of Home Economics in College.
 4. Those who wish to become proficient in one phase of Home Economics in preparation for a career other than teaching.
 5. Graduate students who wish to take research work or who are candidates for a Master's Degree.
 6. Persons desiring a special certificate in Dietetics, Clothing, Dressmaking and Design, Foods and Nutrition or Household Economics and Child Development.
- REQUIREMENTS FOR GRADUATION**
- To receive the degree of Bachelor of Science in Home Economics a student must complete 132 semester hours with an average of C or above and a standing of one grade point thirty (30) semester hours are required for a major and 18-20 semester hours for a minor in all areas.

SCHOOL OF HOME ECONOMICS

The School of Home Economics aims to give training for homemaking and also to provide special opportunity for study of the problems of homemaking, extension, and other phases of the home economics field. Students desiring to major or minor in home economics education, textiles and clothing, dietetics, foods and nutrition, household economics and child development, should consult the Dean of the School.

The School of Home Economics offers some opportunities for graduate study. The bulletin of the Graduate School gives full information concerning requirements and nature of the work.

The School of Home Economics offers curricula with a major or minor in Foods and Nutrition, Textiles and Clothing, Dressmaking and Design, Household Economics, and Child Development and Art. These curricula are arranged sufficiently flexible to provide for needs of the following specific groups:

1. Those who wish to enrich their general and cultural education by electing courses from the Home Economics Curriculum.
2. Those who wish to take a minor in Home Economics.
3. Those who wish to become teachers in homemaking in High School, or some phase of Home Economics in College.
4. Those who wish to become proficient in one phase of Home Economics in preparation for a career other than teaching.
5. Graduate students who wish to take refresher work, or who are candidates for a Master's Degree.
6. Persons desiring a special curriculum in Dietetics, Clothing, Dressmaking and Design, Foods and Nutrition, or Household Economics and Child Development.

REQUIREMENTS FOR GRADUATION

To receive the degree of Bachelor of Science in Home Economics a student must complete 132 semester hours, with an average of C or above and a standing of one grade point. Thirty (30) semester hours are required for a major and 18-20 semester hours for a minor in all areas.

MINOR IN HOME ECONOMICS

SOPHOMORE

	Semester Hours
Clothing 113	3
Art 113	3
Family Life Education 123	3

JUNIOR

Foods 123	3
Child Guidance 413	3
Nursery School Observation 403	3

SENIOR

Household Economics 383	3
Personal and Family Finance	
Industrial Education 203	3
Household Mechanics	
Consumer Education 412	2
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MINOR IN ART

FRESHMAN

	Semester Hours
Basic Art 103-203	6
Elementary Design 113-123	6
Crafts 113	3

SOPHOMORE

Art Appreciation 213	3
Figure Drawing 213	3

SENIOR

Costume Design 322	2
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	23

CLOTHING AND TEXTILES

FRESHMAN YEAR

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 114	4	Chemistry 124	4
Inorganic		Inorganic and Qualitative	
Art 113	3	English 123	3
Elementary Design		Reading and Composition	
English 113	3	Physical Education 121	1
Grammar and Composition		Freshman Practice	
Mathematics 173	3	Home Economics Education 123	3
Applied Mathematics		Family Life Education	
Physical Education 111	1	Foods 123	3
Freshman Practice		Elementary Nutrition	
Home Economics Education 113	3	Clothing 124	4
Orientation		Clothing for the Family	
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	17		18

SOPHOMORE YEAR

First Semester	Hrs.	Second Semester	Hrs.
Industrial Education 203	3	Political Science 203	3
Household Mechanics		State Government	
Political Science 263	3	English 223	3
National Government		Introduction to Literature	
English 213	3	Physical Education 221	1
Public Speaking		Sophomore Practice	
Physical Education 211	1	Chemistry 244	4
Sophomore Practice		Elementary Physiological	
Clothing 223	3	Foods 223	3
Children's Clothing		Family Nutrition	
Education 273	3	Elective	3
Pupil Growth and Development			
	<hr/>		<hr/>
	16		17

JUNIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Biology 304	4	Sociology 323	3
Physiology for Students of H.E.		The Family	
Education 353	3	Home Economics Education 363	3
Adolescent Psychology		Special Methods	
Household Economics 383	3	Clothing 314	4
Personal and Family Finance		Tailoring for Women	
Clothing 374	4	Art 113	3
Men's Wear		Crafts	
Art 322	2	Art 113	3
Costume Designing		Elementary Design	
Clothing 311	1	Clothing 324	4
Drapes and Slip Covers		Textiles Design	
	17		20

SENIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
*Art 213	3	*Clothing 423	3
Drawing Costume Figures		Advanced Textiles	
*Home Economics Education 406	6	*Clothing 424	4
Practice Teaching		Advanced Construction	
*House 403	3	*Clothing 402	2
Home Management Residence		Clothing Clinic	
*Parental Education 401	1	*Clothing 412	2
Nursery School Observation		Consumer Education	
*Clothing 414	4		
Clothing Problems			
	17		11
Total Hours 137			

MINOR IN TEXTILES AND CLOTHING

	Semester Hours
Clothing and Textiles 123	3
Art 113	3
Clothing Construction 123	3
Children's Clothing 223	3
Consumer Education 412	2
Advanced Clothing Construction 424	4
	18

DRESSMAKING AND DESIGN

TWO-YEAR COURSE

FRESHMAN YEAR

First Semester	Hrs.	Second Semester	Hrs.
English 113	3	English 123	3
Grammar and Composition		Reading and Composition	
Home Economics 113	3	Clothing 123	3
Orientation		Elementary Clothing Construction	
Mathematics 173	3	For the Family	
Applied Mathematics		Mathematics 183	3
Clothing 113	3	Applied Mathematics	
Textiles and Clothing		Physical Education 121	1
Art 113	3	Freshman Practice	
Elementary Design		Home Economics Education 123	3
Physical Education 111	1	Family Life	
Freshman Practice		Clothing 223	3
	16	Children's Clothing	
			16

* Either Semester in Program

SOPHOMORE YEAR

First Semester	Hrs.	Second Year	Hrs.
English 213	3	Clothing 414	4
Public Speaking		Clothing Problems	
Industrial Education 203	3	English 223	3
Household Mechanics		Introduction to Literature	
Clothing 374	4	Clothing 314	4
Men's wear		Women's Tailoring	
Household Economics 123	3	Clothing 402	2
Family Economics		Clinic	
Physical Education 211	1	Clothing 424	4
Art 322	2	Advanced Clothing Construction	
Costume Design		Crafts	3
	16		20

NOTE.—Students interested in Dressmaking, a two-year course will see Dean or Advisor for guidance.

FOODS AND NUTRITION

FRESHMAN YEAR

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 114	4	Chemistry 124	4
General Inorganic Chemistry		Inorganic Chemistry	
Art 113	3	English 123	3
Elementary Design		Reading and Composition	
English 113	3	Physical Education 121	1
Grammar and Composition		Freshman Practice	
Mathematics 173	3	Home Economics Education 123	3
Applied Mathematics		Family Life Education	
Physical Education 111	1	Foods 123	3
Freshman Practice		Elementary Nutrition	
Home Economics Education 113	3	Clothing 123	3
Orientation		Textiles and Clothing	
	17		17

SOPHOMORE YEAR

First Semester	Hrs.	Second Semester	Hrs.
Industrial Education 203	4	Political Science 203	3
Household Mechanics		State Government	
Physics 214	4	English 223	3
Political Science 263	3	Introduction to Literature	
National Government		Physical Education 221	1
English 213	3	Sophomore Practice	
Public Speaking		Education 233	3
Physical Education 211	1	School and Community Problems	
Sophomore Practice		Chemistry 244	4
Education 213	3	Physiological	
Introduction		Foods 223	3
Chemistry 203	3	Family Nutrition	
Food Chemistry			
Foods 213	3		
Food Problems			
	19 or 20		17

JUNIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Biology 304	4	Sociology 323	3
Physiology		The Family	
Education 353	3	*Education 383	3
Adolescent Psychology		Educational Psychology	
Foods 303	3	Home Economics Education 363	3
Techniques of Demonstration		Special Methods	
Economics 213	3	Biology 334	4
Principles		Bacteriology	
Household Economics 313	3	Foods 323	3
Equipment		Meal Planning	
Electives	1	Foods 343	3
		Home Economics Agriculture	
	17		19

SENIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
*Home Economics Education 406	6	Foods 423	3
Practice Teaching		Advanced Nutrition	2
*House 403	3	Foods 432	2
Home Management		Seminar	12
*Parental Education 401	1	Electives	4
Nursery School Observation			
Foods 403	3		
Experimental Cookery			
Foods 413	3		
Institutional Cooking			
Electives	4		
	20		17
Total 144 or 145 Hours			

NOTE.—Students interested in Food Preparation as a two-year course must see the Dean.

DIETETICS AS A CAREER

It has become increasingly apparent that the proper enjoyment and preservation of life is more dependent upon food than upon any other single factor. With the advance in technology of the twentieth century, and its resultant social changes, food, its proper balance, preparation and service have become of great interest to the general public. Food is now our largest single industry. It has given employment to nearly 54 per cent of our population. In good times and bad, it provides that one group of commodities that is indispensable. It employs the one group of individuals whose services are always needed.

During the past few years, the field of opportunity for dietitians has expanded enormously. While the field of dietetics is firmly established, it is by no means overcrowded. For these reasons, the future dietitian can look forward with confidence to a career that offers stability, unlimited opportunity for advancement, diversity of activity, and possibility of performing vital services for fellow human beings. As a person offering an important service, the dietitian can expect proportionate income and reward.

To those contemplating a career that affords real advantages, the School of Home Economics offers a course designed to provide training in the essential requirement of this fascinating vocation.

* Either Semester

DIETETICS

Students may qualify for Dietetic Internships by pursuing the Foods and Nutrition Curriculum and by including the following required courses:

Chemistry (12)

Organic
Physiological Chemistry with
Laboratory

Social Sciences (9)

Two of the following:
Psychology
Sociology
Economics

Foods (6)

Food selection and Preparation
Meal Planning and Service

Biology (6)

Human Physiology
Bacteriology

Education (3)

One of the following:
Educational Psychology
Methods of Teaching
Principles of Education

Nutrition and Dietetics (6)

Two of the following:
Normal Nutrition (General)
Advanced Nutrition
Diet in Disease

Institution Management (6)

Quantity Cookery
Organization and Management

HOUSEHOLD ECONOMICS AND CHILD DEVELOPMENT

FRESHMAN YEAR

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 114	4	Chemistry 124	4
Inorganic Chemistry		Inorganic and Qualitative	
Art 113	3	English 123	3
Elementary Design or		Reading and Composition	
Clothing 113	3	Physical Education 121	1
Textile and Clothing		Freshman Practice	
English 113	3	Home Economics Education 123	3
Grammar and Composition		Family Life	
Mathematics 173	3	Foods 123	3
Applied Mathematics		Elementary Nutrition	
Physical Education 111	1	Clothing 123	3
Freshman Practice		Textiles and Clothing or	
Home Economics Education 113	3	Art 113	3
Orientation		Elementary Design	
	17		17

SOPHOMORE YEAR

First Semester	Hrs.	Second Semester	Hrs.
Industrial Education 203	3 or 4	Political Science 203	3
Household Mechanics or		State Government	
Physics 214	4	English 223	3
Political Science 263	3	Introduction to Literature	
National Government		Physical Education 221	1
English 213	3	Sophomore Practice	
Public Speaking		Elective	3
Physical Education 211	1	Chemistry 244	4
Education 113	3	Physiological	
Introduction		Foods 223	3
Clothing 223	3	Family Nutrition	
Children's Clothing			

JUNIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Biology 304	4	Sociology 323	3
Physiology		The Family	
Education 353	3	Education 383	3
Adolescent Psychology		Educational Psychology	
Household Economics 313	3	Household Economics 383	3
General Home Management		Equipment	
Child Guidance 333	3	Child Guidance 323	3
Physical Development		Parent Education	
Electives	4	Foods 323	3
		Meal Planning and Preparing	
	<hr/>		<hr/>
	17		15

SENIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Household Economics 423	3	Household Economics 443	3
Housing		Home Management Residence	
Home Economics Education 414	4	Child Development 403	3
Observation and Practice		Nursery School Observation	
Household Economics 453	3	Child Development 463	3
Consumer in the Market		Nursery School Administration	
Child Development 433	3	Electives	5
Guidance		Household Economics 323	3
Electives	4	Furnishings	
	<hr/>		<hr/>
	17		17

MINOR IN HOUSEHOLD ECONOMICS

FRESHMAN

Home Economics Education 123	3
Family Life Education	

SOPHOMORE

Industrial Education 203	3
Household Mechanics	
Foods 223	3

JUNIOR

Household Economics 313	3
General Home Management	

SENIOR

Household Economics 423	3
Housing	
Household Economics 403	3
Home Management Residence	

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EARLY CHILDHOOD EDUCATION

Specialization in this department prepares students for nursery school and elementary school teachers, supervisors, and directors.

The purpose of this department is to give students a better understanding and appreciation for children. The infants in the home management house, the nursery school children, ages two to five, the play group made up of kindergarten and elementary school children, coming to the nursery school at stated times offer unique opportunities to child life at the various age levels.

It is recommended that the student have a general background in home economics, but students with training in psychology, sociology, elementary education, and nursing education may be accepted.

Students are advised to select courses with assistance of their advisers or the Dean.

DESCRIPTION OF COURSES

ART

103-203. BASIC ART. (0-6) *Credit 3.* I and II. Drawing, composition and the development of techniques in a variety of media.

113-123. ELEMENTARY DESIGN. (1-5) *Credit 3.* I and II. Principles and theories of art to enrich the student's experiences and encourage expression in design and color; application of design to problems of everyday living and home life. (Crafts may be substituted for 3 hours of Elementary Design).

133. CRAFTS. (0-6) *Credit 3.* II. Creative design through a variety of crafts; clay modeling, and plastic casting, leather craft; textile design, metal craft, etc.

213. ART APPRECIATION. (3-0) *Credit 3.* I. History of arts crafts; evaluation of the place of Art in society.

213. FIGURE DRAWING. (0-6) *Credit 3.* I. Fundamentals of structure and anatomy; a study of the human figure to establish a sense of figure proportion and relationships.

322. COSTUME DESIGN. (0-4) *Credit 2.* II. Adaptation and creation of fashions; selection of appropriate costumes and accessories for occasions; fashion illustration; media, pencil, charcoal, pen, ink, and water color.

CHILD DEVELOPMENT

302. CHILDREN'S LITERATURE. (2-0) *Credit 2.* II. Literature as a resource in the child's living; relation of children's literature to world literature; traditional and modern forms; illustration in children's books.

313. HISTORY AND PHILOSOPHY OF EARLY CHILDHOOD EDUCATION. (3-0) *Credit 3.* I. The educational position of the young child in twentieth-century America; the view of social philosophers concerning the problems of early childhood; family education in America out of which evolved the kindergarten and nursery school; observation in kindergartens and early grades in the community.

322. NURSERY EDUCATION MUSIC AND CREATIVE ARTS. (3-2) *Credit 2.* II. Selection of books, stories, music and art for children two to ten years old.

323. PARENT EDUCATION. (3-0) *Credit 3.* II. Parent needs in relation to children; investigation of methods, materials, and literature used in work with parents.

333. PHYSICAL DEVELOPMENT OF CHILDREN. (3-0) *Credit 3*. I. Nutritional requirements and growth patterns of children; factors influencing this growth.

413. CURRICULUM IN EARLY CHILDHOOD EDUCATION. (3-0) *Credit 3*. I. Analysis of basic needs, activities, and interests of young children; how to plan a school environment best adapted to fulfill these needs. Physical, intellectual, and social development as aspects of the total sequence of integrated growth.

401. NURSERY SCHOOL OBSERVATIONS. (0-2) *Credit 1*. I or II. Observations of pre-school children; participation in nursery school activities; meetings with parents.

403. PROBLEMS AND PRACTICES IN NURSERY AND KINDERGARTEN EDUCATION. I. or II. Evaluation of changing practice in school procedures; teacher-child relationship; individual needs and group structure; implications of current therapeutic techniques for teaching.

402. SOCIAL STUDIES FOR EARLY CHILDHOOD EDUCATION. (2-0) *Credit 2*. I or II. Interprets the relationship of social-studies teaching to the school program for early childhood; utilization of community resources through carefully planned and evaluated class trips.

422. HOME NURSING. (2-0) *Credit 2*. I or II. Personal and family health problems in homes.

433. GUIDANCE TECHNIQUE. (3-0) *Credit 3*. I. Survey and evaluation to techniques developed and used in family living.

453. PROBLEMS OF CHILD DEVELOPMENT. (3-0) *Credit 3*. I. Opportunities to discuss problems of the classroom, the community and related fields.

463. NURSERY SCHOOL ADMINISTRATION. (3-0) *Credit 3*. II. Administration in the areas of housing, equipment, costs, staff program, health protections and community relations.

CLOTHING AND TEXTILES

113-123. TEXTILES AND CLOTHING. (1-4) *Credit 3*. I and II. Analyzing personal finances in relation to standards of selection, construction, wear and care of the wardrobe.

123-124. CLOTHING FOR THE FAMILY. (1-4) (2-4) *Credit 3-4*. I and II. Construction, cost, care and maintenance of clothing for the family.

223. CHILDREN'S CLOTHING. (1-4) *Credit 3*. I and II. Selection and construction of garments for infants and young children.

224. ADVANCED CLOTHING CONSTRUCTION. (0-8) *Credit 4*. II. Techniques in selecting and constructing special occasion garments; the modeling of clothes. Estimate of materials and supplies, \$30.00.

311. DRAPES AND SLIP COVERS. (0-2) *Credit 1*. I or II. Slip covers, draperies, upholstery and other household furnishings.

313. COSTUME DESIGN. (0-4) *Credit 2*. I or II. Principles underlying the use of patterns; the construction and fitting of garments; experience in applying these principles.

314. TAILORING FOR WOMEN. (2-4) *Credit 4*. I. Experience in handling various types of woollens and the problems involved in the construction of a suit, coat and slacks. Prerequisites: Clothing 124, 223. Estimate for materials and supplies, \$40.00.

323. DRESSMAKING. (1-4) *Credit 3*. I. Suit and coat making for women.

324. TEXTILE DESIGN. *Credit 4*. I or II. Historic and modern textile design, production and use of fabrics.

374. MEN'S WEAR AND CLOTHING RECLAMATION. (2-2) *Credit 4*. II. Use of commercial and custom made patterns in construction of simple garments for men; remodeling and dyeing of garments. Estimate on supplies, \$5.00.

402. CLOTHING CLINIC. (0-4) *Credit 2*. I or II. Experience in clothing construction; fitting and design for customers.

412. CONSUMER EDUCATION. (2-0) *Credit 2*. II. Living and cultural background and clothing consumer problems.

414. ADVANCED CLOTHING PROBLEMS. (0-8) *Credit 1*. Pattern study. Draping, drafting and fitting; individuality in dress; garments designed from the foundation patterns.

422. MILLINERY. (0-4) *Credit 3*. Hats and bags to complete selected costumes, and occasions.

423. ADVANCED TEXTILES. (1-4) *Credit 3*. Nature of the raw materials; economic, chemical and physical applications involved in their manufacture and use; methods and significance of physical testing. Prerequisites: Chemistry 114, 124, 224, 214, Biology 304; Physics 214.

424. ADVANCED CLOTHING CONSTRUCTION. (0-8) *Credit 4*. II. Techniques in selecting and constructing special occasion garments; the modeling of clothes. Estimate of materials and supplies, \$30.00.

FOODS AND NUTRITION

123. ELEMENTARY NUTRITION. (1-4) *Credit 3*. Developing food selection habits which meet nutritional standards; developing a scientific knowledge of foods.

203. FOOD CHEMISTRY. (2-2) *Credit 3*. Chemistry of fats, carbohydrates and proteins. Prerequisites: Inorganic and Organic Chemistry.

213. FOOD PROBLEMS. (3-0) *Credit 3*. I. Food selection habits which meet nutritional standards; social significance of food and standard of food selection at various economic levels; resources and uses.

223. FAMILY NUTRITION AND CHILD FEEDING. (1-4) *Credit 3*. I or II. Preservation and discussion of current ideas on feeding children and their families; relation of nutrition to physical growth and development. Prerequisite: Elementary nutrition.

303. TECHNIQUES AND PRINCIPLES OF DEMONSTRATION. (1-4) *Credit 4*. I or II. Purpose and technique of demonstration in food preparation and nutrition. Each student expected to prepare and give several demonstrations.

323. MEAL PLANNING AND PREPARATION. (1-4) *Credit 3*. II. Planning, marketing, preparing and serving palatable, nutritious and attractive meals for families at various economic levels; use and care of equipment and table appointments.

343. FOOD PRESERVATION. (1-4) *Credit 3*. I. Equipment, recipes and directions for home food preservation. Taught in School of Agriculture.

403. EXPERIMENTAL COOKERY. (1-4) *Credit 3*. I or II. Factors involved in meal planning; preparation and serving of food with special units on food experimentation and comparison of commercial and home products.

413. INSTITUTIONAL COOKERY AND MANAGEMENT. (1-4) *Credit 3*. II. Fundamentals of preparing food in large quantities; rudiments of cafeteria and institutional management; menu planning, preparation and serving large groups.

414. SELECTION AND PREPARATION. (2-2) *Credit 4*. I. Marketing; choice of foods and selection of methods of preparation of vegetables, meats, cereals and fruits.

423. ADVANCED NUTRITION AND DIET THERAPY. (1-4) *Credit 3*. II. Principles of human nutrition; energy, mineral, vitamin, fat and carbohydrate requirements of human body; selection of food as related to health by planning diets for various diseases. Prerequisite: Physiology and Human Biochemistry.

432. SEMINAR AND READING IN NUTRITION. (2-0) *Credit 2*. II. Recent trends and findings in nutrition; topics related to practical problems in human nutrition. Prerequisites: Background in physiology, chemistry and nutrition.

HOME ECONOMICS EDUCATION

113. ORIENTATION. (3-0) *Credit 3*. I or II. Required of all entering freshmen in School of Home Economics; problems of Freshman students.

123. FAMILY LIFE EDUCATION. (3-0) *Credit 3*. I or II. Family life problems and experiences in solving them.

332. SUMMER AND HOME EXPERIENCES. (2-0) *Credit 2*. I. Summer and home experiences as methods to use in increasing effectiveness of teaching; study reports of the experiences.

343. ADULT EDUCATION. (3-0) *Credit 3*. II. Objectives of adult education; planning program; teaching procedures; and discussion of special problems.

363. SPECIAL METHODS. (3-0) *Credit 3*. I or II. Curriculum, methods of teaching, management, and other problems of the homemaking teacher.

382. CLUB WORK. (2-0) *Credit 2*. N. H. A. as an integral part of the homemaking program.

406. STUDENT TEACHING AND PROBLEMS. (6-0) *Credit 6*. I or II. Supervised teaching of homemaking in schools for a period of 9 weeks.

414. PROBLEMS IN OBSERVATION AND PARTICIPATION IN NURSERY SCHOOL. (1-14) *Credit 4*. I or II. Work as assistant in Nursery School; experience to be earned in a selected nursery school away from campus. (9 weeks). Elective.

HOUSEHOLD ECONOMICS

123. INTRODUCTION TO FAMILY ECONOMICS. (3-0) *Credit 3*. II. Major social and economic problems faced by home managers in bringing about good family relationships.

223. INTRODUCTION TO HOUSEHOLD PHYSICS. (3-0) *Credit 3. II.* Equipment used in the home; construction features; operation of household wares in general.

313. GENERAL HOME MANAGEMENT. (3-0) *Credit 3. I or II.* Designed to include survey, development of home management and analysis and critical evaluation of its present concepts and methods; expenditures of time, energy and money, and the human material resources. Required for juniors and prerequisite to home management House Residence.

323. HOUSE FURNISHING. (3-0) *Credit 3. II.* Planning and furnishing for optimal enjoyment in consideration for family income, size of family income, size of family, family interests, color materials, furniture and furniture arrangement.

383. EQUIPMENT AND MANAGEMENT. (3-0) *Credit 3. I.* Principles and management involved in use, care, and repair of equipment.

403. STUDIES IN HOME MANAGEMENT. (3-0) *Credit 3. II.* Managerial problems, review of management studies; research reports; procedures in evaluating management.

423. HOUSING. (3-0) *Credit 3. II.* Housing standards and conditions; home ownership, financing, house design from consumers point of view; government housing. Prerequisite: House Planning and Furnishing.

463. HOUSE. (3-0) *Credit 3. I.* (Same as foods 343 and Horticulture 343 taught in School of Agriculture). Equipment, recipes and directions for home food preservation.

443. SUPERVISED MANAGEMENT. (1-4) *Credit 3. I and II.* House residence; experiences in group living and opportunities to develop skills and techniques. (Six weeks)

453. CONSUMERS IN THE MARKET. (3-0) *Credit 3. I or II.* Economic aspects of the consumer; aspects of the consumer as a purchaser; merchandising practice; legislation bearing on consumer goods. Field trips to observe markets. Required of all seniors.

HOUSEHOLD ECONOMICS

DIVISION OF INDUSTRIAL EDUCATION

GENERAL INFORMATION

The Division of Industrial Education offers an educational program designed to help prepare young men and women to meet the demands of industry, society and life. The Division of Industrial Education is made up of two departments, the Industrial Arts Department and the Vocational Industrial Education Department. The division offers undergraduate courses leading to the Bachelor of Science Degree in Industrial Education and Trade Certificates in the following industrial fields:

Auto Mechanics	Machine Shop
Broom and Mattress Making	Masonry
Cabinet Making	Painting and Decorating
Carpentry	Plumbing
Commercial Cooking	Printing
Drafting	Radio and Television
Dry Cleaning	Sheet Metal
Electricity	Shoemaking and Leatherwork
Foundry	Tailoring
Laundering	Welding: gas and electric

The Division of Industrial Education has a physical plant occupying over 48,000 square feet of floor space and valued above one quarter million dollars. The offices, classroom and shops are housed in the following buildings:

1. Industrial Education Building—In this building are located the administrative offices; classrooms; library and reading rooms; drafting rooms and shops for instruction in broom and mattress making, shoemaking and leatherwork, printing, woodwork, painting and decorating, plumbing, sheetmetal and auto mechanics.
2. N.Y.A. Shop—In this building are located shops for instruction in bench and machine metalwork, welding and foundry. This building is fully equipped with hand tools, machine tools, testing and processing equipment in order to maintain a first rate instructional program for the metal working industry.

3. Industrial Education Annex—In this building are located classrooms for related instruction and shops for instruction in radio, television, electricity and masonry. This building is equipped with the latest radio, television and electronic equipment in order to provide the students with the best possible instruction.

Due to changes in industry, education and our advancing technology, the Division may make, from time to time, appropriate changes in its curricula in order to always maintain an up-to-date and adequate educational program. Students shall follow the prescribed outline of courses which were required at the time they entered a particular curriculum. All substitutions of courses must be approved by the Director of the Division prior to the time they are made.

ADMISSION

In order to pursue the courses leading to a Degree in Industrial Education or to a Trade Certificate, the student must satisfy the same entrance requirements as are required for entrance to Freshman college courses. Students transferring from a college of similar standing to that of Prairie View A. & M. College shall be given credit for the courses transferred whenever they are equivalent or similar to prescribed courses in the Division of Industrial Education.

GRADUATION REQUIREMENTS*

The requirements for graduation from the Division of Industrial Education are the satisfactory completion of all courses in one of the prescribed curricula, with at least a "C" average.

INDUSTRIAL ARTS DEPARTMENT

The Industrial Arts Department is designed to offer experiences for the following purposes: (1) To prepare young men and women as teachers of Industrial Arts Education at the elementary, junior or senior high school levels, (2) To assist persons to become supervisors, coordinators and directors of Industrial Arts programs, and (3) To assist students who might wish to develop a hobby, develop elementary skill in using tools and industrial materials or increase their general understanding, knowledge and appreciation of the industrial world in which they live.

* See detailed explanation of requirements for graduations from the College in Academic Information Section of this bulletin.

Upon the completion of the prescribed undergraduate curriculum, the student will receive the Bachelor of Science Degree in Industrial Education. He will be entitled to make application and receive a certificate valid to teach Industrial Arts Education in any public school in the State.

MAJOR

The requirements for a major in Industrial Education consist of not less than 60 semester hours. Ten semester hours shall be in courses above the sophomore level. Majors shall select one of the following plans:

PLAN I

UNIT SHOP TEACHER

The shop major shall consist of at least 12 semester hours drawing, including mechanical drawing, freehand drawing and descriptive geometry. A major concentration of 30 semester hours in shop work shall be selected from the areas listed below. An additional 18 hours of related shop courses will go to make up the remainder of the requirements under Plan I.

Auto Mechanics	Painting and Decorating
Broom and Mattress Making	Plumbing
Commercial Cooking	Printing
Dry Cleaning	Radio - Television
Electricity	Sheet Metal
Laundrying	Shoe Making and Leatherwork
Masonry	Tailoring
Metalwork	Woodwork - Carpentry

PLAN II

GENERAL SHOP TEACHER

The shop shall consist of at least 12 semester hours drawing, including mechanical drawing, freehand drawing and descriptive geometry. A minimum of 12 semester hours in shop work is required in three of the areas listed below. An additional 12 semester hours of electives in the same areas will make up the remainder of the requirements under Plan II.

Auto Mechanics	Machine Shop
Broom and Mattress Making	Masonry
Carpentry	Painting and Decorating
Cabinet Making	Plumbing
Commercial Cooking	Printing
Crafts	Radio - Television
Dry Cleaning	Sheet Metal
Electricity	Shoe Making and Leatherwork
Foundry	Tailoring
Laundrying	Welding

MINOR

A minor in Industrial Education requires the completion of 24 semester hours in drawing and shop work. At least 6 semester hours shall be in drawing, including mechanical drawing and freehand drawing. The remaining hours must be in shop work with not less than 6 semester hours in any area selected.

DEGREE REQUIREMENT

BACHELOR OF SCIENCE DEGREE IN INDUSTRIAL EDUCATION

To earn the Bachelor of Science Degree in Industrial Education, the student must complete 140 semester hours of academic and shop work, including 4 semester hours Military Science (men) or 4 semester hours Physical Education (Women). Thirty-six (36) semester hours of total semester hours required for graduation must be in courses above the sophomore level. The academic and shop work shall be distributed as follows:

MAJOR

Sixty (60) semester hours, including 10 semester hours in advanced courses, in drawing and shop work according to Plan I or II.

PROFESSIONAL REQUIREMENTS

A minimum of 28 semester hours is required from the following list, to include 6 semester hours which shall bear upon high school teaching and 6 of which shall consist of study of methods, observation of methods, and practice teaching.

Industrial Education 111	1	Industrial Education 533	3
Orientation		Methods in Industrial Education	3
Industrial Education 213	3	Industrial Education 593	3
Principles of Industrial Education		Audio Visual Education	3
Industrial Education 273	3	Education 383	3
Shop Organization and Management		Educational Psychology	3
Industrial Education 343	3	Education 373	3
Trade and Job Analysis		Vocational Guidance	3
Industrial Education 423	3	Industrial Education 403	3
Teaching Problems in Industrial Education		Supervised Teaching	3

GENERAL EDUCATION REQUIREMENTS

The following courses are required of all majors in Industrial Education:

Mathematics	6	English	12
College Algebra 3 hours		Composition and Grammar 3 hours	
Trigonometry 3 hours		Reading and Composition 3 hours	
Science	18	Public Speaking 3 hours	
Chemistry 8 hours		Introduction to Literature 3 hours	
Physics 10 hours		Economics	3
Government	6	Electives as necessary to satisfy the curriculum	
State Government 3 hours			
National Government 3 hours			

THESIS REQUIREMENTS

A comprehensive theme paper will be required of each student pursuing the Bachelor of Science Degree in Industrial Education. This paper shall be devoted to work in his specific concentration of study or to the general field of Industrial Education. The paper should demonstrate an ability to gather, organize and report Industrial Education information.

VOCATIONAL INDUSTRIAL EDUCATION DEPARTMENT

The Vocational Education Department (Trades and Industries) is designed to offer experiences for the following purposes: (1) To prepare students to enter various skilled trades and manufacturing industries as workers, supervisors, technicians or sales personnel, (2) To allow students who cannot afford the time or expense of taking a four-year course to take a two-year course and apply their limited time directly to acquiring skill in some industry in order to follow it as a trade, (3) To provide trade extension or refresher courses to those who wish to extend their knowledge, skill, and efficiency for the purpose of personal improvement, professional advancement, and job promotions, (4) To provide special trade courses for individuals who have special needs, i.e., industrial rehabilitation students or students who wish to learn only a part of a trade such as linotype operation, lettering, motor winding, etc., and (5) To prepare teachers of vocational industrial education subjects.

A student in the Department of Vocational Industrial Education may qualify for the Bachelor of Science Degree by showing satisfactory proof of having 3 years of experience as a journeyman in a recognized trade and completing the following courses:

Mathematics	6 semester hours
Chemistry	8 semester hours
Physics	10 semester hours
Government	6 semester hours
English	12 semester hours
Economics	3 semester hours
Industrial Education	28 semester hours
Electives	3 semester hours

A student may enter the two-year program in Vocational Industrial Education (Trades and Industries) and work towards a trade certificate in the following areas:

Auto Mechanics	Masonry
Broom and Mattress Making	Metalwork, Foundry, Welding
Cabinet Making	Painting and Decorating
Carpentry	Plumbing
Commercial Cooking	Printing
Drawing and Design	Radio - Television
Dry Cleaning	Sheet Metal
Electricity	Shoe Making and Leatherwork
Laundrying	Tailoring

INDUSTRIAL INTERNSHIP

It is indeed imperative that the industrial education student have close contact with some industry or industrial occupation during his program at the college. It is for this reason that an opportunity is provided for each student to engage in supervised work in industry and receive college credit for the same. One semester hour of college credit is awarded for each 100 clock hours on the job. A maximum of 12 semester hours can be earned in this manner. All internship programs must be approved by the Director of Industrial Education prior to the student actually going on the job.

SPECIAL STUDENTS

Special courses shall be arranged in order to meet the needs of rehabilitation students or students who desire to undertake special study without working towards a degree or a certificate. These courses shall be arranged and supervised by the Director of the Division.

DISTRIBUTIVE EDUCATION

In the field of Distributive Education, courses are offered in business practices, how to teach an employee, wholesale and retail selling and buying, advertising, display, bookkeeping, salesmanship, employer-employee relations, public relations, retail record keeping, laws of retailing, professional development in retail selling, grocery procedure and food service. These courses will be offered in the field in short units, and carry no college credit. Any one or all may be taken on request. Summer Business and Distributive Education Clinics will be held upon demand.

INDUSTRIAL EDUCATION

Curriculum outline for a major in Industrial Education who expects to teach Industrial Arts*

FRESHMAN YEAR

First Semester	Hrs.	Second Semester	Hrs.
Mathematics 113	3	Mathematics 123	3
College Algebra		Trigonometry	3
English 113	3	English 123	3
Grammar and Composition		Reading and Composition	4
Chemistry 114	4	Chemistry 214	4
Inorganic Chemistry		Inorganic Chemistry	1
Drawing and Design 113	3	Industrial Education 121	1
Mechanical Drawing		Orientation	3
Industrial Laboratory	3	Industrial Laboratory	3
Industrial Education 111	1	Drawing and Design 123	3
Orientation		Descriptive Geometry	1
Military Science 111	1	Military Science 121	1
Elementary, or		Elementary, or	1
Physical Education 111	1	Physical Education 121	1
Freshman Practice (Women)		Freshman Practice (Women)	
	18		18

SOPHOMORE YEAR

First Semester	Hrs.	Second Semester	Hrs.
Political Science 263	3	Political Science 203	3
National Government		State Government	3
Industrial Education 213	3	Industrial Education 273	3
Principles of Industrial Education		Shop Organization and Management	3
Industrial Laboratory	3	Drawing (Elective)	3
Drawing and Design 203	3	Industrial Laboratory	5
Freehand Drawing		English 223	3
Military Science 211	1	Introduction to Literature	1
Elementary, or		Military Science 221	1
Physical Education 211	1	Elementary, or	
Sophomore Practice (Women)		Physical Education 221	1
	18	Sophomore Practice (Women)	
			18

JUNIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Physics 115	5	Physics 125	5
General Physics		General Physics	
English 213	3	Industrial Education 343	3
Public Speaking		Trade and Job Analysis	3
Education 373	3	Economics 203	3
Vocational Guidance		Survey of Economics	3
Industrial Laboratory	7	Industrial Laboratory	7
Military Science 313	3	Military Science 323	3
Advanced		Advanced	
	18 or 21		18 or 21

SENIOR YEAR

First Semester	Hrs.	Second Semester	Hrs.
Industrial Education 533	3	Industrial Education 403	3
Methods of Teaching		Practice Teaching	3
Industrial Education 593	3	Industrial Education 423	3
Audio-Visual Education		Teaching Problems	3
Industrial Laboratory	9	Education 383	3
Elective	3	Educational Psychology	3
Military Science 413	3	Industrial Laboratory	3
Advanced		Electives	6
	18 or 21	Military Science 423	3
		Advanced	
			18 or 21

* Students who wish to earn the Bachelor of Science Degree in Industrial Education but do not wish to teach may substitute industrial laboratory electives in the place of Professional Education courses upon the approval of the Director of the Division of Industrial Education.

CURRICULUM OUTLINE FOR TWO-YEAR TECHNICAL COURSES

AUTOMOBILE MECHANICS

FIRST YEAR

First Semester	Hrs.	Second Semester	Hrs.
Drawing and Design 113	3	Drawing and Design 203	3
Mechanical Drawing		Freehand Drawing	
Applied Science 133	3	Applied Science	3
Related Mathematics		Related Mathematics	
English 133	3	English 143	3
English for Trade Students		English for Trade Students	
Industrial Education 111	1	Industrial Education 121	1
Orientation		Orientation	
Auto Mechanics 113	3	Auto Mechanics 123	3
Introduction to Auto Mechanics		Power I	
Auto Mechanics 133	3	Auto Mechanics 143	3
The Chassis		Power II	
Military Science 111	1	Military Science 111	1
Elementary		Elementary	
	—		—
	17		17

SECOND YEAR

First Semester	Hrs.	Second Semester	Hrs.
Applied Science 213	3	Applied Science 223	3
Business Relations		Shop Management	
Metal Work 113	3	Welding 103	3
Bench Work		General Welding	
Science 113	3	Sociology 263	3
College Science		General Sociology	
Auto Mechanics 213	3	Auto Mechanics 223	3
The Fuel System		Auto Mechanics Practice	
Auto Mechanics 233	3	Auto Mechanics 224	4
The Electrical System		Auto Mechanics Practice	
Military Science 211	1	Military Science 221	1
	—		—
	16		17

BROOM AND MATTRESS MAKING

FIRST YEAR

First Semester	Hrs.	Second Semester	Hrs.
Drawing and Design 113	3	Drawing and Design 203	3
Mechanical Drawing		Freehand Drawing	
Applied Science 113	3	Applied Science 143	3
Related Mathematics		Related Mathematics	
Industrial Education 111	1	Industrial Education 121	1
Orientation		Orientation	
English 133	3	English 143	3
English for Trade Students		English for Trade Students	
Brooms and Mattress Making 117	7	Broom and Mattress Making 127	7
Broom and Mattress Making		Broom and Mattress Making	
Theory and Lab.		Theory and Lab.	
Military Science 111	1	Military Science 121	1
Elementary		Elementary	
	—		—
	18		18

SECOND YEAR

First Semester	Hrs.	Second Semester	Hrs.
Applied Science 213	3	Applied Science 223	3
Business Relations		Shop Management	
Elective	2	Elective	2
Science 113	3	Sociology 263	3
College Science		General Sociology	
Broom and Mattress Making 217	7	Broom and Mattress Making 227	7
Broom and Mattress Making		Broom and Mattress Making	
Theory and Lab.		Theory and Lab.	
Military Science 211	1	Military Science 221	1
Elementary		Elementary	
	—		—
	16		16

CARPENTRY

FIRST YEAR

First Semester	Hrs.	Second Semester	Hrs.
Drawing and Design 113	3	Drawing and Design 203	3
Mechanical Drawing		Freehand Drawing	
Applied Science 133	3	Applied Science 143	3
Related Mathematics		Related Mathematics	
English 133	3	English 143	3
English for Trade Students		English for Trade Students	
Industrial Education 111	1	Industrial Education 121	1
Orientation		Orientation	
Carpentry 117	7	Carpentry 127	7
Carpentry Theory and Lab.		Carpentry Theory and Lab.	
Military Science 111	1	Military Science 121	1
Elementary		Elementary	
—	—	—	—
18		18	

SECOND YEAR

First Semester	Hrs.	Second Semester	Hrs.
Applied Science 213	3	Applied Science 223	3
Business Relations		Shop Management	
Drawing and Design 303	3	Painting 123	3
Working Drawings		Elementary Painting	
Science 113	3	Sociology 263	3
College Science		General Sociology	
Carpentry 217	7	Carpentry 227	7
Carpentry Theory and Lab.		Carpentry Theory and Lab.	
Military Science 211	1	Military Science 221	1
Elementary		Elementary	
—	—	—	—
17		17	

COOKING AND BAKING

FIRST YEAR

First Semester	Hrs.	Second Semester	Hrs.
Home Economics 112	2	Home Economics 122	2
Nutrition		Nutrition	
Cooking and Baking 112	2	Cooking and Baking 122	2
Food Products		Food Products	
Cooking and Baking 113	3	Cooking and Baking 123	3
Elementary Food Preparation		Elementary Food Preparation	
Cooking and Baking 117	7	Cooking and Baking 127	7
Foods Laboratory		Foods Laboratory	
English 133	3	Mathematics 173	3
English for Trade Students		Applied Mathematics	
Military Science 111	1	Military Science 121	1
Elementary		Elementary	
—	—	—	—
18		18	

SECOND YEAR

First Semester	Hrs.	Second Semester	Hrs.
Cooking and Baking 213	3	Cooking and Baking 223	3
Sanitation		Food Service	
Cooking and Baking 233	3	Cooking and Baking 243	3
Business Management		Menu Planning	
Cooking and Baking 253	3	Cooking and Baking 263	3
Advanced Food Preparation		Advanced Food Preparation	
Cooking and Baking 215	5	Cooking and Baking 225	5
Foods Laboratory		Food Laboratory	
Political Science 103	3	Sociology 263	3
American Government		General Sociology	
Military Science 211	1	Military Science 221	1
Elementary		Elementary	
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18		18	

DRAWING AND DESIGN

FIRST YEAR

First Semester	Hrs.	Second Semester	Hrs.
Applied Science 133	3	Applied Science 143	3
Related Mathematics		Related Mathematics	
English 133	3	English 143	3
English for Trade Students		English for Trade Students	
Drawing and Design 113	3	Drawing and Design 123	3
Mechanical Drawing		Descriptive Geometry	
Architectural Engineering 212	2	Architectural Engineering 222	2
Freehand Drawing		Freehand Drawing	
Science 113	3	Architectural Engineering 243	3
College Science		Architectural Drawing	
Industrial Education 111	1	Industrial Education 121	1
Orientation		Orientation	
Military Science 111	1	Military Science 121	1
Elementary		Elementary	
	16		16

SECOND YEAR

First Semester	Hrs.	Second Semester	Hrs.
Mathematics 113	3	Mathematics 123	3
College Algebra		Trigonometry	
Applied Science 213	3	Applied Science 223	3
Business Relations		Shop Management	
Elective	3	Sociology 263	3
Architectural Engineering 244	4	General Sociology	
Architectural Drafting		Architectural Engineering 263	3
Architectural Engineering 363	3	Architectural Drafting	
Working Drawings		Architectural Engineering 373	3
Military Science 211	1	Working Drawings	
Elementary		Military Science 221	1
	17	Elementary	
			16

DRY CLEANING

FIRST YEAR

First Semester	Hrs.	Second Semester	Hrs.
Drawing and Design 113	3	Drawing and Design 203	3
Mechanical Drawing		Freehand Drawing	
Applied Science 133	3	Applied Science 143	3
Related Mathematics		Related Mathematics	
English 133	3	English 143	3
English for Trade Students		English for Trade Students	
Dry Cleaning 117	7	Dry Cleaning 127	7
Dry Cleaning Theory and Lab.		Dry Cleaning Theory and Lab.	
Industrial Education 111	1	Industrial Education 121	1
Orientation		Orientation	
Military Science 111	1	Military Science 121	1
Elementary		Elementary	
	18		18

SECOND YEAR

First Semester	Hrs.	Second Semester	Hrs.
Applied Science 213	3	Applied Science 223	3
Business Relations		Shop Management	
Laundrying 112	2	Tailoring 113	3
Laundrying, Elementary		Tailoring, Elementary	
Science 113	3	Sociology 263	3
College Science		General Sociology	
Dry Cleaning 217	7	Dry Cleaning 227	7
Dry Cleaning Theory and Lab.		Dry Cleaning Theory and Lab.	
Military Science 211	1	Military Science 221	1
Elementary		Elementary	
	16		17

ELECTRICITY

FIRST YEAR

First Semester	Hrs.	Second Semester	Hrs.
Drawing and Design 113	3	Drawing and Design 203	3
Mechanical Drawing		Freehand Drawing	
Applied Science 133	3	Applied Science 143	3
Related Mathematics		Related Mathematics	
Industrial Education 111	1	Industrial Education 121	1
Orientation		Orientation	
English 133	3	English 143	3
English for Trade Students		English for Trade Students	
Electricity 114	4	Electricity 124	4
Electrical Theory and Lab.		Electrical Theory and Lab.	
Electricity 113	3	Electricity 123	3
Electrical Wiring and Repair		Electrical Wiring and Repair	
Military Science 111	1	Military Science 121	1
Elementary		Elementary	
	18		18

SECOND YEAR

First Semester	Hrs.	Second Semester	Hrs.
Applied Science 213	3	Applied Science 223	3
Business Relations		Shop Management	
Electricity 132	2	Electricity 142	2
D.C. Motor-Generator Repair		A.C. Motor-Generator Repair	
Science 113	3	Sociology 263	3
College Science		General Sociology	
Electricity 217	7	Electricity 227	7
Electrical Theory and Lab.		Electrical Theory and Lab.	
Military Science 211	1	Military Science 221	1
Elementary		Elementary	
	16		16

METALWORK, WELDING, FOUNDRY

FIRST YEAR

First Semester	Hrs.	Second Semester	Hrs.
Drawing and Design 113	3	Drawing and Design 203	3
Mechanical Drawing		Freehand Drawing	
Applied Science 113	3	Applied Science 123	3
Related Mathematics		Related Mathematics	
English 133	3	English 143	3
English for Trade Students		English for Trade Students	
Industrial Education 111	1	Industrial Education 121	1
Orientation		Orientation	
Welding 113	3	Welding 123	3
Electric Welding		Gas Welding	
Metalwork 113	3	Metalwork 123	3
Bench Work		Machine Work	
Military Science 111	1	Military Science 121	1
Elementary		Elementary	
	17		17

SECOND YEAR

First Semester	Hrs.	Second Semester	Hrs.
Applied Science 213	3	Applied Science 223	3
Business Relations		Shop Management	
Foundry 113	3	Sociology 263	3
Foundry I		General Sociology	
Science 113	3	Foundry 213	3
College Science		Foundry II	
Metalwork 213	3	Metalwork 323	3
Advanced Machine Shop		Materials and Processes	
Welding 213	3	Welding 223	3
Advanced Electric		Advanced Gas	
Military Science 211	1	Military Science 221	1
Elementary		Elementary	
	16		16

LAUNDERING

FIRST YEAR

First Semester	Hrs.	Second Semester	Hrs.
Drawing and Design 118	3	Drawing and Design 203	3
Mechanical Drawing		Freehand Drawing	
Applied Science 113	3	Applied Science 143	3
Related Mathematics		Related Mathematics	
Industrial Education 111	1	Industrial Education 121	1
Orientation		Orientation	
English 133	3	English 143	3
English for Trade Students		English for Trade Students	
Laundering 117	7	Laundering 127	7
Laundering Theory and Lab.		Laundering Theory and Lab.	
Military Science 111	1	Military Science 121	1
Elementary		Elementary	
	18		18

SECOND YEAR

First Semester	Hrs.	Second Semester	Hrs.
Applied Science 213	3	Applied Science 223	3
Business Relations		Shop Management	
Science 113	3	Tailoring 112	2
College Science		Tailoring	
Laundering 217	7	Sociology 263	3
Laundering Theory and Lab.		General Sociology	
Dry Cleaning 102	2	Laundering 227	7
Dry Cleaning Lab.		Laundering Theory and Lab.	
Military Science 211	1	Military Science 221	1
Elementary		Elementary	
	16		16

MASONRY

FIRST YEAR

First Semester	Hrs.	Second Semester	Hrs.
Drawing and Design 118	3	Drawing and Design 203	3
Mechanical Drawing		Freehand Drawing	
Applied Science 133	3	Applied Science 143	3
Related Mathematics		Related Mathematics	
Industrial Education 111	1	Industrial Education 121	1
Orientation		Orientation	
English 133	3	English 143	3
English for Trade Students		English for Trade Students	
Masonry 117	7	Masonry 127	7
Masonry Theory and Lab.		Masonry Theory and Lab.	
Military Science 111	1	Military Science 121	1
Elementary		Elementary	
	18		18

SECOND YEAR

First Semester	Hrs.	Second Semester	Hrs.
Applied Science 213	3	Applied Science 223	3
Business Relations		Shop Management	
Drawing and Design 303	3	Carpentry 223	3
Working Drawings		General Carpentry	
Science 113	3	Sociology 263	3
College Science		General Sociology	
Masonry 217	7	Masonry 227	7
Masonry Theory and Lab.		Masonry Theory and Lab.	
Military Science 211	1	Military Science 221	1
Elementary		Elementary	
	17		17

PAINTING

FIRST YEAR

First Semester	Hrs.	Second Semester	Hrs.
Drawing and Design 113	3	Drawing and Design 203	3
Mechanical Drawing		Freehand Drawing	
Applied Science 113	3	Applied Science 143	3
Related Mathematics		Related Mathematics	
Industrial Education 111	1	Industrial Education 121	1
Orientation		Orientation	
English 133	3	English 143	3
English for Trade Students		English for Trade Students	
Painting 117	7	Painting 117	7
Painting Theory and Lab.		Painting Theory and Lab.	
Military Science 111	1	Military Science 121	1
Elementary		Elementary	
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18		18	

SECOND YEAR

First Semester	Hrs.	Second Semester	Hrs.
Applied Science 213	3	Applied Science 223	3
Business Relations		Shop Management	
Painting 213	3	Painting 402	2
Furniture Finishing		Estimating	
Science 113	3	Sociology 263	3
College Science		General Sociology	
Painting 217	7	Painting 227	7
Painting Theory and Lab.		Painting Theory and Lab.	
Military Science 211	1	Military Science 221	1
Elementary		Elementary	
—	—	—	—
17		17	

PLUMBING

FIRST YEAR

First Semester	Hrs.	Second Semester	Hrs.
Drawing and Design 113	3	Drawing and Design 203	3
Mechanical Drawing		Freehand Drawing	
Applied Science 133	3	Applied Science 143	3
Related Mathematics		Related Mathematics	
Industrial Education 111	1	Industrial Education 121	1
English 133	3	English 143	3
English for Trade Students		English for Trade Students	
Plumbing 117	7	Plumbing 127	7
Plumbing Theory and Lab.		Plumbing Theory and Lab.	
Military Science 111	1	Military Science 121	1
Elementary		Elementary	
—	—	—	—
18		18	

SECOND YEAR

First Semester	Hrs.	Second Semester	Hrs.
Applied Science 213	3	Applied Science 223	3
Business Relation		Shop Management	
Welding 103	3	Sheet Metal 113	3
General Welding		Elementary Sheet Metal	
Science 113	3	Sociology 263	3
College Science		General Sociology	
Plumbing 217	7	Plumbing 227	7
Plumbing Theory and Lab.		Plumbing Theory and Lab.	
Military Science 211	1	Military Science 221	1
Elementary		Elementary	
—	—	—	—
17		17	

PRINTING

FIRST YEAR

First Semester	Hrs.	Second Semester	Hrs.
English 133	3	English 143	3
English for Trade Students		English for Trade Students	
Applied Science 133	3	Applied Science 143	3
Related Mathematics		Related Mathematics	
Printing 112	2	Printing 122	2
Typography I		Typography II	
Printing 152	2	Printing 162	2
Platen Presswork I		Cylinder Presswork I	
Printing 113	3	Printing 172	2
Graphic Arts Survey		Platen Presswork II	
Printing 132	2	Printing 182	2
Layout and Design		Machine Composition I	
Printing 111	1	Printing 142	2
Lettering		Layout and Design	
Industrial Education 111	1	Industrial Education 121	1
Orientation		Orientation	
Military Science 111	1	Military Science 121	1
Elementary		Elementary	
	18		18

SECOND YEAR

First Semester	Hrs.	Second Semester	Hrs.
Applied Science 213	3	Sociology 263	3
Business Relations		General Sociology	
Printing 121	1	Printing 262	2
Bindery Operation		Cylinder Presswork III	
Printing 252	2	Printing 283	3
Cylinder Presswork II		Machine Composition III	
Printing 273	3	Printing 241	1
Machine Composition II		Machine Maintenance	
Printing 232	2	Printing 221	1
Imposition and Lock-up		Typography IV	
Printing 212	2	Printing 243	3
Estimating		Plant Management	
Elective	2	Printing 222	2
Printing 292	2	Estimating	
Typography III		Printing 282	2
Military Science 211	1	Printing Production	
Elementary		Military Science 221	1
	18	Elementary	
	18		18

RADIO

FIRST YEAR

First Semester	Hrs.	Second Semester	Hrs.
Drawing and Design 113	3	Drawing and Design 203	3
Mechanical Drawing		Freehand Drawing	
Applied Science 133	3	Applied Science 143	3
Related Mathematics		Related Mathematics	
English 133	3	English 143	3
English for Trade Students		English for Trade Students	
Industrial Education 111	1	Industrial Education 121	1
Orientation		Orientation	
Electricity 114	4	Electricity 124	4
Electrical Theory and Lab.		Electrical Theory and Lab.	
Radio 113	3	Radio 123	3
Radio Lab.		Radio Lab.	
Military Science 111	1	Military Science 121	1
Elementary		Elementary	
	18		18

SECOND YEAR

First Semester	Hrs.	Second Semester	Hrs.
Mathematics 113	3	Mathematics 123	3
College Algebra		Trigonometry	
Applied Science 213	3	Applied Science 223	3
Business Relations		Shop Management	
Electricity 102	2	Radio 222	2
Electrical Appliances		Test Instruments	
Radio 217	7	Radio 227	7
Radio Theory and Lab.		Radio Theory and Lab.	
Military Science 211	2	Military Science 221	1
Elementary		Elementary	
	16		16

SHEET METAL

FIRST YEAR

First Semester	Hrs.	Second Semester	Hrs.
Drawing and Design 113	3	Drawing and Design 123	3
Mechanical Drawing		Descriptive Geometry	
Applied Science 133	3	Applied Science 143	3
Related Mathematics		Related Mathematics	
English 133	3	English 143	3
English for Trade Students		English for Trade Students	
Industrial Education 111	1	Industrial Education 111	1
Orientation		Orientation	
Sheet Metal 117	7	Sheet Metal 127	7
Sheet Metal Theory and Lab.		Sheet Metal Theory and Lab.	
Military Science 111	1	Military Science 121	1
Elementary		Elementary	
	18		18

SECOND YEAR

First Semester	Hrs.	Second Semester	Hrs.
Applied Science 213	3	Applied Science 223	3
Business Relations		Shop Management	
Drawing and Design 133	3	Drawing and Design 143	3
Applied Drawing I		Applied Drawing II	
Science 113	3	Sociology 263	3
College Science		General Sociology	
Sheet Metal 217	7	Sheet Metal 227	7
Sheet Metal Theory and Lab.		Sheet Metal Theory and Lab.	
Military Science 211	1	Military Science 221	1
Elementary		Elementary	
	17		17

SHOE MAKING AND LEATHERWORK

FIRST YEAR

First Semester	Hrs.	Second Semester	Hrs.
Drawing and Design 133	3	Drawing and Design 143	3
Applied Drawing I		Applied Drawing II	
Applied Science 133	3	Applied Science 143	3
Related Mathematics		Related Mathematics	
English 133	3	English 143	3
English for Trade Students		English for Trade Students	
Industrial Education 111	1	Industrial Education 111	1
Orientation		Orientation	
Shoe Repair 117	7	Shoe Repair 127	7
Shoe Repair Theory and Lab.		Shoe Repair Theory and Lab.	
Military Science 111	1	Military Science 121	1
Elementary		Elementary	
	18		18

SECOND YEAR

First Semester	Hrs.	Second Semester	Hrs.
Applied Science 213	3	Applied Science 223	3
Business Relations		Shop Management	
Drawing and Design 233	3	Leatherwork 203	3
Applied Drawing III		Leathercraft	
Shoe Repair 217	7	Shoe Repair 227	7
Shoe Repair Theory and Lab.		Shoe Repair Theory and Lab.	
Science 113	3	Sociology 263	3
College Science		General Sociology	
Military Science 211	1	Military Science 221	1
Elementary		Elementary	
	17		17

TAILORING

FIRST YEAR

First Semester	Hrs.	Second Semester	Hrs.
Drawing and Design 133	3	Drawing and Design 143	3
Applied Drawing I		Applied Drawing II	
Applied Science 133	3	Applied Science 143	3
Related Mathematics		Related Mathematics	
English 133	3	English 143	3
English for Trade Students		English for Trade Students	
Industrial Education 111	1	Industrial Education 111	1
Orientation		Orientation	
Tailoring 117	7	Tailoring 127	7
Tailoring Theory and Lab.		Tailoring Theory and Lab.	
Military Science 111	1	Military Science 121	1
Elementary		Elementary	
	18		18

SECOND YEAR

First Semester	Hrs.	Second Semester	Hrs.
Applied Science 213	3	Applied Science 223	3
Business Relations		Shop Management	
Science 113	3	Sociology 263	3
College Science		General Sociology	
Drawing and Design 223	3	Drawing and Design 243	3
Applied Drawing III		Applied Drawing IV	
Dry Cleaning 113	3	Elective	3
Elementary Dry Cleaning		Tailoring 225	5
Tailoring 215	5	Tailoring Lab.	
Tailoring Lab.		Military Science 221	1
Military Science 211	1	Elementary	
Elementary			
	18		18

DESCRIPTION OF COURSES

INDUSTRIAL EDUCATION

111-121. ORIENTATION. (1-0) *Credit 1*. Required of all freshmen in the Division of Industrial Education. Deals with the problems facing beginning college students.

213. PRINCIPLES OF INDUSTRIAL EDUCATION. (3-0) *Credit 3*. I. An introductory course in Industrial Education outlining present philosophical concepts of industrial education. A developmental study of the programs that make up modern industrial education, including industrial arts, vocational industrial education, apprenticeship and school-industry programs. An outline study of the teaching methods, organization systems, aims and objectives and requirements of prospective teachers of industrial education and probably future trends in the field of industrial education.

273. SHOP ORGANIZATION AND MANAGEMENT. (3-0) *Credit 3*. I. Shop planning, management, organization, supply sources, types of shops, shop plans, selection, purchase, installation, arrangement of equipment, shop class organization, pupil personnel management. Records, including inventories, progress charts, reports, requisitions, etc.

343. TRADE AND JOB ANALYSIS. (3-0) *Credit 3*. II. A study of analysis technique as it has been developed by various leaders in industrial education; job analysis for the purpose of determining the content of training for an occupation; related content analysis for determining what should be taught as classroom material; analysis of a trade, industry or industrial plant for determining the general outline of a program of trade or industrial training. (For undergraduates only.)

423. TEACHING PROBLEMS IN INDUSTRIAL EDUCATION. (3-0) *Credit 3*. II. Problems that confront beginning industrial education teachers; brief historical study of industrial education; relationship of industrial education to other phases of education; selection of subject matter; preparation and presentation of instructional materials; teaching plans, tests, and standard evaluating devices for measuring results. To be taken concurrently with I. E. 403-6.

403-406. SUPERVISED TEACHING IN INDUSTRIAL EDUCATION. (0-9) (0-18) *Credit 3 and 6*. I and II. Directed observation of teaching, followed by actual supervised teaching for the individual student. To be taken concurrently with Industrial Education 423.

603. WORKSHOPS AND INSTITUTES IN INDUSTRIAL EDUCATION. *Credit 3*. I and II. A study of and the development of solutions for problems in Industrial Education.

- A. Cosmetology Institute
- B. Industrial Arts Teacher Workshop
- C. Vocational-Industrial Teachers Workshop
- D. Administrators Workshop

FOR GRADUATE AND UNDERGRADUATE CREDIT

513. CURRICULUM CONSTRUCTION AND COURSE MAKING IN INDUSTRIAL EDUCATION. (3-0) *Credit 3*. I. Principles of curriculum construction and study of industrial education curricula as used throughout leading high schools; analytical technique in curriculum construction; course making and syllabus construction.

523. TEST AND MEASUREMENTS IN INDUSTRIAL EDUCATION. (3-0) *Credit 3*. II. Sources of instructional testing and evaluating materials; construction and use of test and evaluating devices; administering, scoring, recording and interpreting tests, progress charts, diagnosis of difficulties, analysis of teaching problems as related to evaluation.

533. INDUSTRIAL METHODS IN INDUSTRIAL EDUCATION. (3-0) *Credit 3*. I. Methods, devices, techniques as applied to teaching industrial subjects; analysis and evaluation of student learning difficulties and teaching responsibilities in industrial classes; nature, preparation and use of instruction sheets.

563. THE GENERAL SHOP. (3-0) *Credit 3*. II. The general shop organization; its contribution to attainment of cardinal objectives of the modern high school; current practices as to type of shops, equipment, instructional materials and procedures.

583. INDUSTRIAL ARTS FOR ELEMENTARY SCHOOL. (3-0) *Credit 3*. I and II. For teachers, supervisors, principals of elementary schools; fundamental concepts, philosophies of industrial arts in the elementary school; function and scope, organization, administration, activities and methods of teaching industrial arts on the elementary level.

593. AUDIO AND VISUAL EDUCATION. (3-0) *Credit 3*. II. Practical experience in the use of audio-visual aids, construction and development of various audio-visual aids and devices; sources of audio-visual aids; selection, evaluation and techniques of using audio-visual aids in education, study of movie projectors, slides, film strips, opaque projectors, etc.

***VOCATIONAL - INDUSTRIAL EDUCATION**

The following courses are designed to meet the certificate requirements of Vocational-Industrial Education teachers under the Texas State Plan for Vocational Education. College credit may be arranged for these courses with the written approval of the teacher-trainer for Vocational Industrial Education and the Director of the Division of Industrial Education.

402. INTRODUCTION TO TRADE AND INDUSTRIAL TEACHING. Orientation Course: 10 to 30 clock hours. Definition of vocational education, fields of vocational education; types of classes, requirements; the administration of vocational education; courses and course material available and the organization of a course; analysis of teaching and lesson content.

412. DEVELOPMENT, ORGANIZATION AND USE OF INSTRUCTIONAL MATERIAL. 45 clock hours. The study of available instructional material and its adaptation; the development and preparation of teaching aids; the organization of material for effective coordination with courses of study.

422. METHODS OF TEACHING. 45 clock hours. A brief review of how people learn; evaluation of various teaching methods; the adaptation of methods to types of lessons for effective instruction; the "4-step method" of presenting lessons; analysis for lesson content; preparation of lesson plans and practice teaching.

432. SHOP AND CLASSROOM ORGANIZATION AND MANAGEMENT. 45 clock hours. Organization plans for classrooms and shops for efficient instruction and management, including roll-keeping, grading, recording, and reporting systems; specifying, purchasing, receiving, storing, installing, and inventorying of tools, equipment, and supplies; heating, lighting, ventilation, sanitation and accident prevention; recitation and library centers; tool, supply and project storing and issuing systems.

442. ANALYSIS AND COURSE MAKING. 45 clock hours. A study of analysis available in the teacher's field of work; reviewing systems of analysis; adaptation of principles of analysis to fit the teacher's needs; the organization of a course of study to fit the teacher's specific needs developed from the adopted, modified, or developed analysis.

462. AIMS AND OBJECTIVES OF VOCATIONAL EDUCATION. 30 clock hours. A basic course for administrators, supervisors, and teachers; history and aims of vocational education; its economic, social, and educational values; different phases of vocational education; Federal and State laws; training of teachers.

472. SELECTION, PLACEMENT, AND FOLLOW-UP IN VOCATIONAL EDUCATION. 45 clock hours. Factors which influence the schooling, work opportunities, and educational objectives of young people; techniques of interviewing and advising young people in regard to vocational courses; factors affecting placement in suitable employment either part or full-time; methods of follow-up and coordination.

482. DEVELOPMENT AND USE OF VISUAL AIDS. 45 clock hours. The study of visual aids on the commercial market and their adaptability to vocational education; the development of types of visual aids and techniques

* Offered in summer session only.

teachers can use for more effective teaching. These are to include motion pictures, strip films, slides, cut-aways, blow-ups, mock-ups, posters, charts, pictures and blackboard illustrations.

492. PROBLEMS IN COOPERATIVE TRAINING. 45 clock hours. A review of the duties of the teacher-coordinator; the solution of actual problems; procedures and techniques involved in community surveys; interpretation of survey data; program expansion; guidance and counselling; organization and coordination of all types of part-time and evening classes.

APPLIED SCIENCE

133-143. RELATED MATHEMATICS. (3-0) *Credit 3*. I and II. Numeral manipulation as applied to the trade and industry fields.

203. HOUSEHOLD MECHANICS. (2-3) *Credit 3*. I. Practical and the theoretical training in the maintenance of various home appliances; the upkeep of household furnishings; fire protection and minor repairs.

213. BUSINESS RELATIONS. (3-0) *Credit 3*. I. Basic principles of business organization, operation and management.

223. SHOP MANAGEMENT. (3-0) *Credit 3*. II. Problems of the management of an industrial enterprise, such as selection and arrangement of equipment, standardization, routing and dispatching, cost and wage systems and other factors closely applied to production as well as job shop.

AUTOMOBILE MECHANICS

113. INTRODUCTION TO AUTO MECHANICS. (1-6) *Credit 3*. I. How the problems of appearance, comfort, convenience, safety, economy, and power have produced the modern automobile.

133. THE CHASSIS. (9-0) *Credit 3*. II. This unit includes a study of the purposes, structure, operation, and service of the frames, springs, shock absorbers, front end suspension, steering assemble, front end alignment, clutches, transmissions, universals, propeller shafts, final drive, brakes, and chassis lubrication.

123-243. THE POWER. (0-9) *Credit 3*. II. A thorough and comprehensive study of the automobile engine; the principles of the internal combustion engine, the gasoline engine, and all of their fundamental parts; the most common causes of engine failures; diagnosis and repair.

213. THE FUEL SYSTEM. (0-9) *Credit 3*. I. This unit includes a study of the parts of the fuel system, principles of carburetion, and maintenance and service of the fuel lines, fuel pumps, filters, etc; servicing of the most popular makes of carburetors.

223-224. AUTO MECHANIC PRACTICE. (0-9), (2-15) *Credit 3 and 4*. II. Actual shop conditions; automobile trouble, diagnosis and service on a basis that is comparable to that in the best shops; jobs taken as they come and handled by individual students as they will operate in commercial situations.

233. THE ELECTRICAL SYSTEM. (0-9) *Credit 3*. I. The fundamental information needed by an automobile mechanic; principles, parts, operation, maintenance, and servicing of all the units of the automobile's electrical system, including batteries, motors, generators, ignition and accessories.

304. ADVANCED AUTO MECHANIC PRACTICE. (0-12) *Credit 4. I and II.* Continuation of Auto Mechanics 223.

404. ADVANCED AUTO MECHANIC PRACTICE. (0-12) *Credit 4. I and II.* Continuation of Auto Mechanics 223.

BROOM AND MATTRESS MAKING

112-212. BROOM AND MATTRESS MAKING. (0-6) *Credit 2. I and II.* Broom and Mattress Making as an industry course for students of School of Arts and Sciences only.

113. ELEMENTARY BROOM MAKING. (1-2) *Credit 3. I.* Theory and practice of assorting broom corn; trimming and seeding machinery; dyeing and bleaching; use and care of tools and machinery.

117. ELEMENTARY BROOM MAKING. (2-15) *Credit 7. I.* Assortment of broom corn; trimming and seeding machinery; putting the corn into working order; dyeing and bleaching broom corn; names and care of tools and machinery; making plain light household broom; scraping, sewing, clipping, and bunching brooms.

123. ELEMENTARY MATTRESS MAKING. (1-2) *Credit 3. II.* Theory and practice in use and care of mattress making tools and machines, measuring, cutting and making ticking for the 1-2, 2-3, and 3-4 mattresses.

127. ADVANCED BROOM AND MATTRESS MAKING. (2-15) *Credit 7. II.* Large household brooms; warehouse brooms; different types and styles of finishes; whisk brooms; ceiling or wall brooms; quantity and cost estimating; mop making; different kinds and grades of mattress ticking; cutting and making ticking for the full mattress; duofold mattresses, day bed and baby bed; non-tack and sectional feather mattresses, making pillows and renovating mattresses.

213. ADVANCED BROOM MAKING. (1-2) *Credit 3. I.* Theory and practice in making large household brooms, warehouse broom, etc., different types and styles of brooms, cost estimating.

217. ELEMENTARY MATTRESS MAKING. (2-15) *Credit 7. I.* Nomenclature, use and care of mattress making tools and machines; measuring, cutting and making ticking for the 1-2, 2-3, and 3-4 mattresses.

223. ADVANCED MATTRESS MAKING. (1-2) *Credit 3. II.* Continuation of course Mattress Making 123 to include cost accounting.

227. BROOM AND MATTRESS MAKING. II. (2-15) *Credit 7. II.* Continuation of courses 127.

CARPENTRY

117. ELEMENTARY CARPENTRY I. (2-15) *Credit 7.* Name, use and care of tools, materials and equipment; woods, wood joints, techniques and methods of house construction; surveying and studying building sites, laying out from blueprints, practicing elementary frame construction.

127. ELEMENTARY CARPENTRY II. (2-15) *Credit 7.* Continuation of Carpentry 117. Study and practice in the various methods, techniques and styles of framing; simple rafter cutting and stair building.

217. ADVANCED CARPENTRY I. (2-15) *Credit 7. I.* Continuation of Carpentry 127. Advanced framing complex roof and stair construction;

close-in and finished carpentry work studied and practiced; hardware and other utilities installed and studied.

224. GENERAL CARPENTRY. (2-6) *Credit 4*. II. Designed for Industrial Education students. Information and skills in the laying out, framing, and finishing small frame buildings.

227. ADVANCED CARPENTRY II. (2-15) *Credit 7*. Continuation of Carpentry 217. The use of power machines in carpentry work; techniques of mass production in the manufacture of prefabricated homes; millwork techniques in the construction of cabinets, stairs, doors, windows, interior and exterior trim.

CRAFTS

103. ELEMENTARY PHOTOGRAPHY. (1-6) *Credit 3*. I and II. The picture making process; cameras, enlargers, printer, film, papers, elementary skill in developing, processing and printing.

133. ART METAL. (1-6) *Credit 3*. I and II. Designing, layout, shaping, polishing, finishing aluminum, pewter, copper, brass and silver.

203. LEATHERCRAFT. (1-6) *Credit 3*. I, II. Designing, laying out, cutting, tooling, dying, lacing construction of project in leather.

COOKING AND BAKING

112. FOOD PRODUCTS. (2-0) *Credit 2*. The production of fruits and vegetables, sugar, beverages, fats and oils; the variety of foods, their production centers and distribution.

113. ELEMENTARY FOOD PREPARATION. (3-0) *Credit 3*. Preparation and fixing; waste testing and portion control; cooking and serving vegetables and potatoes; preparation, fixing, waste testing, portion control, serving of salad and salad dressing.

117. FOOD LABORATORY I. (2-15) *Credit 7*. Experimentation and practice in preparing and serving foods.

122. FOOD PRODUCTS. (2-0) *Credit 2*. Continuation of C. B. 112; variety, production centers, distribution of dairy products, poultry and game, meat, fish, condiments, cereal and their products.

123. ELEMENTARY FOOD PREPARATION. (3-0) *Credit 3*. Preparation, fixing, waste testing, portion control, and serving appetizers, sandwiches and breakfast dishes.

127. FOODS LABORATORY II. (2-15) *Credit 7*. Experimentation and practice in preparing and serving foods.

213. SANITATION. (3-0) *Credit 3*. Principles of sanitation as applied to meats, milk, milk products, and other foods; sanitation applied to cooking and baking equipment, refrigeration sanitation and personal hygiene.

233. BUSINESS MANAGEMENT. (3-0) *Credit 3*. Selection and arrangement of equipment, food purchasing, cost and wage systems and other factors related to production in a commercial establishment.

253. ADVANCED FOOD PREPARATION. (2-3) *Credit 3*. The breakdown of whole animal carcasses for restaurant use; classifying and precasting standard cooking methods of meat and poultry; preparation of soups, eggs, and sauces.

215. FOODS LABORATORY III. (0-15) *Credit 5*. Experimentation and practice in preparing and serving food.

223. FOOD SERVICE. (3-0) *Credit 3*. Proper methods of handling food service in dining rooms, banquets, special occasion; service of liquids with meals.

243. MENU PLANNING. (3-0) *Credit 3*. Analysis of dietary (food) habits, customs and prejudices; food as sources of nutrients; practice in planning meals in normal nutrition; menu planning for banquets, community meals, formal meals, teas, buffet service and foreign buffets.

263. ADVANCED FOOD PREPARATION. (3-0) *Credit 3*. Preparation and service of basic doughs, pies, cakes, cookies, creams, jello, puddings, ice cream; testing and precasting of items prepared; utilization of left overs, preparation of fish and shellfish, service of cold buffet.

225. FOODS LABORATORY IV. (0-15) *Credit 5*. Experimentation and practice in preparing and serving foods.

DRAWING AND DESIGN

113. MECHANICAL DRAWING. (1-6) *Credit 3*. I. Use of drafting tools; fundamentals of lettering; orthographic, isometric, oblique and cabinet drawing as applied to industrial products; freehand and perspective sketching in industrial design; meets the needs of Industrial Education students.

123. APPLIED DESCRIPTIVE GEOMETRY. (1-6) *Credit 3*. II. Descriptive geometry in the development of industrial drawings; practice of applying the principles concerning point, lines and plane projection to actual situations.

133-134. APPLIED DRAWING I and II. (1-6) (1-9) *Credit 3-4*. I and II. Drawing which will be in line with the students needs in applying it to a trade where such a specific course is not otherwise designated.

203. FREEHAND DRAWING. (1-6) *Credit 3*. I and II. Freehand sketching and design as applied to Industrial Arts problems.

233-243. APPLIED DRAWING III and IV. (1-6) *Credit 3*. I and II. An advanced drawing course in line with the students needs in applying it to a trade where such a specific course is not otherwise designated.

303. WORKING DRAWINGS. (1-6) *Credit 3*. I and II. Preparing working drawings and specifications for specific construction problems.

313. DESIGN. (1-6) *Credit 3*. I and II. A study of line, color, form and their organic relationship; study of design principles; opportunity for creative expression in three dimensional form using woods, metals, plastics, glass, stone, etc.

DRY CLEANING

112-212. DRY CLEANING. (0-6) *Credit 2*. I and II. Dry Cleaning as an industry course for School of Arts and Sciences students only.

113. DRY CLEANING. (0-9) *Credit 3*. I. First steps in the care of fabrics; woven fabric construction; leathers and fur; cleaning fluid other than water; inspection of materials for cleaning; dry cleaning equipment and its care; static electricity, its prevention; motors, belts and their care; dry cleaning aids.

117. DRY CLEANING. (2-15) *Credit 7*. I. Dry Cleaning and spotting, fibers in fabric; moisture, its source and effect; materials that may be dry cleaned; dry cleaning equipment and its care; dry cleaning solvent; inspecting garments for cleaning.

123. DRY CLEANING. (0-9) *Credit 3*. II. Soil in garments and sorting; care of garments in cleaning; fur and leather cleaning; purification of dirty-used solvent; first steps in the spotting of garments; wool fibers, artificial wool fibers, their behavior; pure silk, weighted silk and its behavior; rayon, two classifications discussed.

127. DRY CLEANING. (2-15) *Credit 7*. II. Miscellaneous cleaning problems, chemical analysis and trouble finding, spotting of garments, pure silk and its behavior; rayon fabric behavior and identification.

213. DRY CLEANING. (0-9) *Credit 3*. I. Cotton, its origin and use; linen, jute and tinsel fibers, their use, behavior and identification; identification of all fibers in plant practices; spotting, basic dyestuffs, acid dyestuff, color change of dyestuff in wear, storage cleaning.

217. DRY CLEANING. (2-15) *Credit 7*. I. Cotton, its origin, use, behavior and identification; identification of fibers as an aid in all cleaning plant practices; basic dyestuffs; acid dyestuffs; color change of dyestuff in wear, storage, staining, cleaning; stains and how to know them.

223. DRY CLEANING. (0-9) *Credit 3*. II. Simple tests to know all dyestuffs; equipment, its care and operation; policies, good and bad, in receiving dyeing; study chart for overdyeing; chart for tinting; blending colors.

227. DRY CLEANING. (2-15) *Credit 7*. II. Spotting tools; their use and care; wet and dry system, its use and limits; pressing, all types of materials, silk finishing; shop management.

313. DRY CLEANING. (0-9) *Credit 3*. I. Wet cleaning; working policies, good and bad; when wet cleaning is all-important; testing fabrics before wet cleaning; equipment, soaps, bleaching.

323. DRY CLEANING. (0-9) *Credit 3*. II. Bleaching; bleaching and dyeing fur; testing dyes in fabric before work jobs; desizing agents, strippers; tinting; blueing and topping practices.

413. DRY CLEANING. (0-9) *Credit 3*. I. A spotting chart to study covering 600 common stains.

423. DRY CLEANING. (0-9) *Credit 3*. II. Pressing all types of materials; silk pressing; silk finishing; shop management.

ELECTRICITY

102. ELECTRICAL APPLIANCES. (0-6) *Credit 2*. I. Construction, repair, maintenance and servicing.

112-122. ELEMENTARY ELECTRICITY. (0-6) *Credit 2*. I and II. Fundamental principles of electricity and electrical machinery; construction, simple wiring; theory of magnetic and direct current circuits.

112A-122A. ELECTRICAL LABORATORY. (0-6) *Credit 2*. I and II. Laboratory experiments involving the fundamentals of electricity and magnetism and their industrial applications.

113-123. ELECTRICAL WIRING AND REPAIR. (0-9) *Credit 3.* I and II. Practice in house wiring; general repairs to wiring and electrical equipment; installation and servicing of motors, telephones, transformers and generators.

115. DIRECT CURRENT APPARATUS AND CIRCUITS. (0-15) *Credit 5.* I. Direct current circuit and magnetic circuit theory and calculations; principles of design and construction of direct-current, motors and generators; theory, concerning torque, flux, speed, voltage and speed regulations, commutation, and armature reaction of shunt and compound machines, parallel operations, and mechanical couplings of electrical machinery; theory and practice of direct current control equipment for generators and motors.

125. ALTERNATING-CURRENT APPARATUS AND CIRCUITS. (0-15) *Credit 5.* II. Relations of simple harmonic electromotive forces and current phase differences; active, reactive, and apparent power, power factor and reactive factor, resistance, inductance, and capacitances; series, parallel, and resonant circuits; polyphase circuits, balanced and unbalanced; construction, characteristics and operation of alternators, induction motors, transformers, synchronous motors, synchronous converters, mercury-arc rectifiers and their regulating and control devices; fundamentals of telephone transmission. Prerequisite: Electricity 115.

132. DIRECT-CURRENT MOTOR-GENERATOR REPAIR. (0-6) *Credit 2.* I. Repair of direct-current motors and generators.

142. ALTERNATING-CURRENT MOTOR-GENERATOR REPAIR. (0-6) *Credit 2.* II. Repair of alternating-current motors and generators.

212-222. ELECTRICAL THEORY. (2-0) *Credit 2.* I and II. Prerequisite: Course 112. Continuation of course 122.

215. ELECTRICAL MEASUREMENT. (0-15) *Credit 5.* I. Electrical and magnetic units and standards; direct current and low frequency measurements; theory, calibration, and use of laboratory standards, and of potential transformers, and portable direct-current and alternating-current instruments; magnetic flux density measurement and core loss in iron; measurements for resistance, reactance, capacitance impedance, voltage current, and power factor; audio-frequency measurements. Prerequisite: Electricity 125.

225. WIRING AND ILLUMINATION. (0-15) *Credit 5.* II. Fundamentals of commercial and industrial wiring and illumination practice. Prerequisite: Electricity 215.

FOUNDRY

213. FOUNDRY I. (1-6) *Credit 3.* I. Processes used in casting non-ferrous alloys, kiln-drying and moisture fired furnaces, moulding and casting non-ferrous metals, foundry layouts.

223. FOUNDRY. I. (1-6) *Credit 3.* II. Processes used in casting ferrous alloys, most cast iron, cupola practices, sand testing, coremaking; practice in moulding and casting ferrous metals, metallurgy of gray iron.

LAUNDERING

112-212. LAUNDERING. (0-6) *Credit 2.* I, II. Laundering as an industry course for School of Arts and Sciences students only.

113. ELEMENTARY LAUNDERING. (1-6) *Credit 3*. I. Laundry terms, care and operation of machinery; kind of machinery; use and structure of machines.

123. ELEMENTARY LAUNDERING. (1-6) *Credit 3*. II. Checking in, marking and separation of garments; finishing flat work; starch work and other wearing apparels.

213. LAUNDERING. (1-6) *Credit 3*. I. Classification; mechanical aids to washing; chemical aids to washing; the washing formula.

223. LAUNDERING. (1-6) *Credit 3*. II. White work washing processes; washing processes for colors, silk, rayons and woolsens.

313. LAUNDERING. (1-6) *Credit 3*. I. Uses of laundry chemicals; soaps and their properties; disinfectants, acids and sours; stain removals; practical experience.

323. LAUNDERING. (1-6) *Credit 3*. II. Preparation and application of chemical aids to washing soaps; alkali sour bleach; uses of mechanical aids to washing; the structure of the washwheel, automatic devices, capacity.

413. ADVANCED LAUNDERING. (1-6) *Credit 3*. I. Washroom tests, how to make them, testing of water for hardness, testing for alkalinity, sour. Testing for strength of bleach solution.

423. ADVANCED LAUNDERING. (1-6) *Credit 3*. II. Routing the materials through the plant; floor plans for plant lay-out; laundry records, book-keeping, management and the route salesman.

MASONRY

112-212. MASONRY. (0-6) *Credit 2*. I, II. Masonry as an industry course for School of Arts and Sciences students only.

113. ELEMENTARY BRICKLAYING. (1-6) *Credit 3*. I. Use, care and values of tools; the common materials and methods used in bricklaying; mortar making and spreading; laying straight walls using standard bonds.

123. ELEMENTARY MASONRY. (1-6) *Credit 3*. II. Spread and stepped footings; foundations, walls and piers in concrete, plain and reinforced concrete mortars, underpinnings; laying out foundations; excavating.

213. INTERMEDIATE MASONRY. (1-6) *Credit 3*. I. Theory and practice in building walls using various structural bonds, running veneer wall against hollow tile and frame backings; building construction work to include opening, arches, builder's iron, windows, doors, flues and vents.

223. PLASTERING. (1-6) *Credit 3*. I. Theory and practice in use, care, value of plastering tools; proportioning, mixing of mortars; application and finishing of plain and ornamental plastering including stucco work.

313. ESTIMATING AND MATERIALS. (1-6) *Credit 3*. I. Sue and properties of brick, stone, ceramic tile, terra-cotta-hollow tile, cements, aggregates, steels and other masonry materials; estimating of cost in brickwork, concrete, tile, plastering; reading and working with builders plans.

323. ORNAMENTAL CONCRETE. (1-6) *Credit 3*. II. Theory and practice of ornamental and decorative work in concrete, moldings, pedestals, columns, pottery, vases, benches and other decorative work.

413. CONCRETE, STONE AND TILE WORK. (1-6) *Credit 3.* I. Theory and practice of simple reinforced concrete work, forms; mixing and placing concrete; testing; finishing; stone cutting, setting, tile and bric-a-bac work.

423. ADVANCED MASONRY. (0-9) *Credit 3.* II. Theory and practice in special construction in brick and concrete work; laying fire brick, dry bricklaying, fireplace work, gate piers, garden walls, etc.

METAL WORK

113. BENCH WORK. (1-6) *Credit 3.* I. Units that lay a foundation for further metal work, hand tools, precision measuring instruments, laying out, filing, tool grinding, use of tap and dies, drill press and the use of metals and their cutting speeds.

123. MACHINE SHOP. (1-6) *Credit 3.* II. Fundamental operations; chucking, facing, centering, straight and taper turning, plain milling, plain shaping, thread cutting with lathe, counter sinking, boring and chuck and mandrel work—mostly lathe study.

213. ADVANCED MACHINE SHOP. (1-6) *Credit 3.* I. The index head, milling square surfaces, hexagonal surfaces, milling key ways for plain and woodruff keys, gear cutting, spur and miter gears, cylindrical and surface grinding.

223. TOOL MAKING. (1-6) *Credit 3.* II. Making jig and fixtures and special tooling for quantity production of some mechanical units to be produced in the shop; emphasis on modern precision tool making methods.

313. HEAT TREATMENT. (1-6) *Credit 3.* I. The heat treatment of ferrous alloys, heat treating operations, microstructure and physical properties, hardenability, grain size testing, machineability and some heat treating operations as applied in industry.

323. MATERIAL AND PROCESSES. (1-6) *Credit 3.* II. The limitation and usefulness of materials, techniques of processes; their relative importance industrially and their relation to one another.

PAINTING

112-212. ELEMENTARY PAINTING. (0-6) *Credit 2.* I, II. Elementary painting as an industry course for students in the School of Arts and Sciences.

113. ELEMENTARY PAINTING. (1-6) *Credit 3.* I. Various kinds of paints, varnishes, stains, lacquers, and their ingredients; the relation and recognition of colors; tools, equipment and their uses; practical experience.

117. ELEMENTARY PAINTING. (2-15) *Credit 7.* I. Various kinds of paints, varnishes, stains, lacquers, and their ingredients; the relation and recognition of colors; tools, equipment and their uses; practical experience.

123. ELEMENTARY PAINTING. (1-6) *Credit 3.* II. Preparation for exterior surfaces; mixing and applying paints; the affect of weather conditions upon paint jobs; color analysis and color matching; practical experience.

127. ELEMENTARY PAINTING. (2-15) *Credit 7.* II. Preparation of exterior surfaces; mixing and applying paints; the effect of weather conditions upon a paint job; color analysis and color matching; practical experience.

213. FURNITURE FINISHING. (1-6) *Credit 3.* I. Knowledge of woods used in furniture building; use of stains, fillers, shellac and varnish and oils; producing natural stain, varnish and oil finishings.

217. ADVANCED PAINTING. (2-15) *Credit 7.* I. Preparing interior surfaces; blending colors with furniture effects of position and light upon interiors; modernistic wall finishing; practical experience.

223. UPHOLSTERING. (1-6) *Credit 3.* II. Knowledge of tools and materials for upholstering; re-upholstering simple pad back and cushion chairs; re-setting springs in over-stuffed furniture; use of webbing and pad and platform cloth.

227. ADVANCED PAINTING. (2-15) *Credit 7.* II. Simple steps in paper hanging; shop management and furniture finishing; estimating and practical experience.

243. PAPER HANGING. (1-6) *Credit 3.* II. Knowledge and practicing the best methods of hanging wall papers; proper use and care of tools and equipment, preparing surfaces; measuring and cutting patterns and plain papers.

312. PAPER HANGING OR FURNITURE FINISHING. I. (0-6) *Credit 2.* I. Estimating and extensive practice. Prerequisites: Painting 312, 122, 222.

313. ADVANCED PAINTING. (1-6) *Credit 3.* I. Preparing interior surfaces; blending color with furniture; effect of position and light upon interiors; modernistic wall finishing; practical experience.

322. PAPER HANGING OR FURNITURE FINISHING. II. (0-6) *Credit 2.* II. Estimating and extensive practice. Prerequisite: Painting 312.

323. ADVANCED PAINTING. (1-6) *Credit 3.* I. Advanced knowledge and experience of interior and exterior painting; producing flat, gloss and sand finish walls; blended, stippled, mottled and plastic finishes.

343. ADVANCED FURNITURE FINISHING. (1-6) *Credit 3.* I. Producing natural finishes with shellac, varnish and lacquer; graining and enameling; polishing and striping.

402. ESTIMATING AND SHOP MANAGEMENT IN PAINTING TRADE. (2-0) *Credit 2.* I, II. Experience in shop management, and job estimating; keeping accurate records of inventory; accurate records of general expenses; accurate calculations of time, material and labor cost of jobs.

413. ADVANCED PAPER HANGING. (1-6) *Credit 3.* I. Advanced work in the best methods of hanging high grade wall papers, plain and pattern; cutting and matching high grade papers; estimating the amount of materials for given jobs; practical experience to require speed, neatness, and accuracy.

423. ADVANCED UPHOLSTERY. (1-6) *Credit 3.* II. Best methods of estimating materials; re-upholstering over-stuffed chairs and sofas; re-upholstering curved backs; slip covering.

PLUMBING

112-212. PLUMBING AND STEAM FITTING. (0-6) *Credit 2.* I, II. Plumbing and steam fitting as an industry course for School of Arts and Sciences students only.

113. ELEMENTARY PLUMBING. (1-6) *Credit 3.* I. Theory and practice in measuring, cutting and threading steel pipe; cutting and caulking cast iron pipe; repairing faucets and cocks; soldering, grading, and laying sewer lines.

117. INDUSTRIAL AND ELEMENTARY PLUMBING. (2-15) *Credit 7.* I. Care and use of tools; plumbing and heating layouts; measuring, cutting and threading steel pipe; cutting and caulking cast iron pipe; repairing faucets and cocks; soldering, grading, and laying sewer lines.

123. ELEMENTARY PLUMBING. (1-6) *Credit 3.* II. Theory and practice in lead work and gas pipe work.

127. INDUSTRIAL AND ELEMENTARY PLUMBING. (2-15) *Credit 7.* II. Leadwork; roughing in for, and setting fixtures on small plumbing and heating jobs; material bills, tapping and venting.

203. RURAL PLUMBING. (0-6) *Credit 3.* Theory and practice of plumbing work as involved on farms and rural homes, irrigation, water distribution to stock, cesspools, septic tanks, commercial gas distribution, water wells, sanitation and health, etc.

214. INTERMEDIATE PLUMBING. (2-6) *Credit 4.* I. Theory and practice of roughing in for, and setting fixtures on small plumbing and heating jobs, topping and venting.

217-227. ADVANCED PLUMBING. (2-15) *Credit 7.* I and II. Small heating systems; installation of boilers of one and two-pipe heating systems; transmission lines, layouts, layouts and codes, etc. Making estimates for labor and material for small plumbing and heating jobs; distribution of hot and cold water; estimating yearly supplies for boarding schools.

223. INTERMEDIATE PLUMBING. (1-6) *Credit 3.* II. Continuation of Plumbing 214, to include advanced work in hot and cold water distribution.

303. ESTIMATING AND SPECIFICATIONS FOR PLUMBING TRADE. (3-0) *Credit 3.* Estimating materials and cost of plumbing jobs, reading and interpretation of plumbing and heating layouts. Knowledge of specifications in plumbing trade.

313. ADVANCED PLUMBING. (1-6) *Credit 3.* I. Theory and practice of small heating systems to include boiler work for house and small commercial uses.

323. ADVANCED PLUMBING. (1-6) *Credit 3.* II. Theory and practice in advanced problems of hot and cold water distribution; heaters and other plumbing features in homes and commercial businesses.

413. PLUMBING CODES AND HEALTH REGULATIONS. (3-0) *Credit 3.* Existing laws and regulations affecting the plumbing trade; health and sanitation regulations affecting sewer disposal plants, water supplies, etc.

PRINTING

102-202. PRINTING. (0-6) *Credit 2.* I, II. Printing as an industry course for School of Arts and Sciences students only.

111. LETTERING. (3-0) *Credit 1*. I. Fundamental Roman letter forms; projects to develop skill in the drawing of letters for layout and reproduction purpose.

112. TYPOGRAPHY. (0-6) *Credit 2*. I. Hand composition; basic problems and techniques in setting type; setting of straight matter and simple display jobs; proofing; care of type and material.

113. GRAPHIC ARTS SURVEY. (3-0) *Credit 3*. I. The history of printing; general survey of allied processes, methods and practices followed.

121. BINDERY OPERATION. (3-0) *Credit 1*. I. Folding, inserting, gathering, stitching, gluing on backs, and trimming; proper methods of wrapping.

122. TYPOGRAPHY. (0-6) *Credit 2*. II. Advanced problems in composition and selection of type; proportion, balance, shape, harmony, tone harmony, contrast, subject harmony and color.

132. LAYOUT AND DESIGN. (0-6) *Credit 2*. I. Fundamentals of design incorporating "thumbnail," "roughs," space break-up, movement, balance, type legibility, and copyfitting.

142. LAYOUT AND DESIGN. (0-6) *Credit 2*. II. The designing of blotters, folders, broadsides, booklets, brochures, etc.; their function, and the solving of problems involved in their production.

152. PLATEN PRESSWORK. (0-6) *Credit 2*. I. Operation of the Platen press; feeding and simple makeready.

162 or 163. CYLINDER PRESSWORK. (0-6) or (0-9) *Credit 2, 3*. II. Operation and care of small cylinder presses; the makeready and feeding of commercial job forms.

172 or 173. PLATEN PRESSWORK. (0-6) *Credit 2, 3*. II. Advanced makeready on halftones and more intricate work; introduction to automatic platen press.

182. MACHINE COMPOSITION. (0-6) *Credit 2*. II. Elementary phases of linotype operation; keyboard fingering, and practice in setting from simple copy.

212. ESTIMATING. (2-0) *Credit 2*. II. Application of the elements of cost-finding to jobs of printing in process.

221. TYPOGRAPHY. (0-3) *Credit 1*. II. Craftsmanship and efficiency in handling typical jobs; creative and experimental typography.

241. MACHINE MAINTENANCE. (0-3) *Credit 1*. I. Functions of the devices comprising the Linotype machine; dissection, reassembly, adjustment of parts and correction of difficulties.

292. TYPOGRAPHY. (0-6) *Credit 2*. I. Accepted trade practices in handling typical jobs; training in the application of principles in experimental typography; instruction and practice in mark-up.

232. IMPOSITION AND LOCKUP. (0-6) *Credit 2*. I. Making up of different kinds of type and combination form; imposition and lockup beginning with simple forms and progressing to more complex ones.

243. PLANT MANAGEMENT. (3-0) *Credit 3*. II. Solution of problems of finance, profits, plant layout, equipment, operation, and employee relations.

222. ESTIMATING. (2-0) *Credit 2*. I. Estimating time and cost on all classes of composition, presswork, binding, paper, halftones, etc.

252. or 253. CYLINDER PRESSWORK. (0-6) or (0-9) *Credit 2, 3*. I. Advanced presswork, makeready and feeding, including newspaper and book work; press mechanism and adjustments. Introduction to simple color work.

262 or 263. CYLINDER PRESSWORK. (0-6) or (0-9) *Credit 2, 3*. II. Operation and care of large cylinder presses; makeready of halftone and process color work.

272 or 273. MACHINE COMPOSITION. (0-6) or (0-9) *Credit 2, 3*. I. Accuracy, development of speed, correct handling of straight matter, simple tabular work, and moderately complex composition.

282 or 283. MACHINE COMPOSITION. (0-6) or (0-9) *Credit 2, 3*. II. The development of trade accuracy and speed; understanding and practice of accepted typographic usage; setting for color separation, headings, display and advertising matter; twin-matter composition; work in the routine care of machines.

292 or 293. PRINTING PRODUCTION. (0-6) or (0-9) *Credit 3*. II. Planning, estimating, scheduling and complete manufacture of printing jobs.

RADIO

✓ 112-212. RADIO. (0-6) *Credit 2*. I, II. Radio as an industry course for School of Arts and Sciences students only.

113. RADIO THEORY. (3-0) *Credit 3*. I. Electron theory; fundamental electrical units; magnetism; electro-magnetism and electro-magnetic induction.

113-123, 215-225. RADIO LABORATORY. (0-9) (0-15) *Credit 3, 5*. I, II. Measuring and testing instruments; vacuum tube voltmeters, output meters, frequency meters, signal generators, and cathode-ray oscilloscopes; analysis and interpretation of measurements results; "troubleshooting" and repairing commercial radios.

✓ 123. RADIO THEORY. (3-0) *Credit 3*. II. Inductance, inductors, transformers; capacitance, condensers, and vacuum tubes.

183. CIRCUIT LABORATORY. (0-9) *Credit 3*. II. Experiments and tests; fundamental concepts of alternating current circuits; series and parallel circuits; reactance and impedance; resonant and non-resonant; sinusoidal and non-sinusoidal wave analysis; couples circuits and basic filter theory.

212. TEST INSTRUMENTS. (2-0) *Credit 2*. I. Commercial test instruments in use by repairmen and technicians; operation and repair; repairs to the d'Arsonval type meter.

213. RADIO THEORY. (3-0) *Credit 3*. I. Detectors; superheterodyne theory, A. F. amplifiers; R. F. amplifiers; filters, special circuits; sound and sound production.

223. RADIO THEORY. (3-0) *Credit 3*. II. Trouble in A. C. and D. C. sets; radio measurements; classification and use of meters; tube troubles; repairs and replacements; superheterodyne troubles and remedies.

273. FREQUENCY MODULATION. (0-9) *Credit 3*. I. General principles and advantages; block diagram of transmitter; block diagram of receiver; use of limiter and discrimination.

274. TELEVISION. (2-6) *Credit 4.* I and II. Theory and laboratory experience with television receivers and antennas, including installation, aligning, trouble shooting, and practice with television receivers and antennas.

423. RESEACH AND PROBLEMS. *Credit to be arranged.* I. Every student taking Radio Repair as a trade must select some problem or project in which he is interested and must do intensive research work on it. The result of his project or problem must be written and presented in a regular seminar.

SHEET METAL

112-212. SHEET METAL. (0-6) *Credit 2.* I, II. Sheet metal as an industry course for School of Arts and Sciences students only.

113. ELEMENTARY SHEET METAL. (1-6) *Credit 3.* I. Fundamental machine and hand tool operation. Study of materials; development and execution of simple patterns.

117-127. ELEMENTARY SHEET METAL. (2-15) *Credit 7.* I, II. Templates, soldering, brazing, seaming, and study and use of sheet and bar materials.

123. ELEMENTARY SHEET METAL. (1-6) *Credit 3.* II. Continuation of sheet metal 113 to include direct layouts and short methods.

213. ELEMENTARY SHEET METAL. (1-6) *Credit 3.* I. Use of templates, soldering, brazing, seaming, drafting of irregular patterns by means of triangulation.

217-227. ADVANCED SHEET METAL. (2-15) *Credit 7.* I, II. Different types of sheet and wrought-iron works as applied to furniture, building construction, heating ducts, and ornament; welding and brazing. Prerequisite: Elementary Sheet Metal 127.

223. INTERMEDIATE SHEET METAL. (1-6) *Credit 3.* II. Continuation of Sheet Metal 213, including advanced problems.

313. INDUSTRIAL ARTS SHEET METAL. (1-6) *Credit 3.* I. Sheet metal for industrial arts classes in the typical secondary school. Suitable projects, materials, tools and equipment.

323. INDUSTRIAL ARTS SHEET METAL. (1-6) *Credit 3.* II. Advanced operations such as raising, forming, stretching, shrinking, bending, spinning, chasing, seaming, piercing, etching, coloring; applied in projects in the working of copper, brass, aluminum, and other materials used in the industrial arts shop.

413. ADVANCED SHEET METAL. (1-6) *Credit 3.* I. Theory and practice in different types of sheet and wrought-iron works as applied to furniture, building construction, heating and ventilation ducts, and ornamental work.

423. ADVANCED SHEET METAL. (1-6) *Credit 3.* II. Continuation of Sheet Metal 413.

SHOE MAKING AND LEATHERWORK

112-212. SHOEMAKING. (0-6) *Credit 2.* I and II. Shoemaking as an industry course for students in the School of Arts and Sciences only.

117. SHOEMAKING. (2-15) *Credit 7. I.* Care of shop; care and use of tools; making bristled waxed thread ends; sewing with hand sewing awl; tempering shoe leather; moulding whole and half soles for bottom use; fitting half soles; sewing rips in upper and soles by hand.

127. SHOEMAKING. (2-15) *Credit 7. I.* Selection of lasts to correct the shape of shoes to be repaired; nailing shoes previously fitted; repairing leather and wood heels; lock stitching; trimming edges by hand; classification on soles and upper patch leather; fitting needles and the repair of the universal feed machine; getting outlines of vamp; quarter and sole patches; putting on cement; vamp and sole patches; sewing soles by the hand method.

217. SHOEMAKING. (2-15) *Credit 7. I.* The care of the finishing machine; fitting and preparing cement soles; repairing light half soles on shoes; history of footwear; fitting insoles; repairing turn soles by the turn method; sewing welts; putting on plain bottoms; stitching soles with machine and trimming and finishing edges with machine.

227. SHOEMAKING. (2-15) *Credit 7. II.* The use and care of the McKay Self-channelling Machine; fitting needles in the machine; general repairs to machine; the use and care of the rough rounding machine; the lip channel method of fastening whole sole with the stitches; general organization and shop management; keeping books and job records.

TAILORING

112-212. TAILORING. (0-6) *Credit 2. I and II.* Tailoring as an industry for students in the School of Arts and Sciences only.

113. ELEMENTARY TAILORING. (0-9) *Credit 3. I.* Names and uses of various stitches; trouser cutting and making; the tailor's square and its uses; trouser measurements.

117. ELEMENTARY TAILORING. (2-15) *Credit 7. I.* Names and uses of various stitches; trouser cutting and measurements; the tailor's square and its uses.

123. ELEMENTARY TAILORING. (0-9) *Credit 3. I.* Use and care of tailoring machines; skirt drafting, cutting and making.

127. ELEMENTARY TAILORING. (2-15) *Credit 7. I.* Trouser drafting, trimming and making; serges and worsteds; use and care of tailoring machines; skirt drafting, cutting and making.

133. TAILORING. (3-0) *Credit 3.* Textile fabrics; fibers, weaves and textile designs used for making clothing.

213. TAILORING. (0-9) *Credit 3. II.* Proportionate vest cutting, drafting and making; collar and canvas construction.

217. ADVANCED TAILORING. (2-15) *Credit 7.* Coat and vest measurement; direct and proportionate vest cutting, drafting and making; collar and canvas construction.

223. TAILORING. (0-9) *Credit 3. II.* Sack coat cutting, trimming and making.

227. ADVANCED TAILORING. (2-15) *Credit 7. II.* Coat cutting, trimming, drafting, and making; alterations and repairs; hand and machine made coats; methods of lining and relining.

131. TAILORING. (0-9) *Credit 3. II.* Tuxedo and full-dress coat cutting, trimming and making.

223. TAILORING. (0-9) *Credit 3. II.* Alterations and repairs to garments worn by women and men; methods of lining and relining.

223. TAILORING. (3-0) *Credit 3.* Measures and measurements; individual and proportionate measurements.

WELDING

103. GENERAL WELDING. (1-6) *Credit 3. I and II.* An exploration of the welding field. An introduction to the fundamentals of oxy-acetylene, electric arc and resistance welding, including cutting.

113. WELDING I — ELECTRIC. (1-6) *Credit 3. I and II.* Theory and practice of techniques in arc welding maintenance and fabrication; servicing of equipment and controls; a study of welding symbols.

123. WELDING II — GAS. (1-6) *Credit 3. I and II.* Theory and practice of techniques in gas welding fabrication and maintenance; storage and manufacture of gas; servicing and regulation of equipment.

213. ADVANCED WELDING I — ELECTRIC. (1-6) *Credit 3. I and II.* Further practice in arc welding; a study of some of the modern techniques in welding; types of tests used in the testing of welded joints; calculating costs, job rating and design, and industrial application of resistance welding.

223. ADVANCED WELDING II — GAS. (1-6) *Credit 3. I and II.* Modern techniques of gas welding; methods of fusion and bronze welding, cast iron and methods of welding non-ferrous metals.

WOODWORK

112-212. GENERAL WOODWORK. (0-6) *Credit 2. I, II.* An exploration of the woodwork field and a study of its related socio-economic problems; development of an appreciation for wood and its æsthetic qualities; the construction of general small projects using correct tools, materials and operational procedures. (For students of School of Arts and Sciences only).

113-123. FUNDAMENTAL WOODWORK. (1-6) *Credit 3. I, II.* The care, use and selection of fundamental woodworking tools, materials and equipment; skill in the hand construction of approved projects which must embody good construction and good design values; training in the ability to analyze a problem into its learning units and to plan the procedure in the execution of a job.

121. MAINTENANCE OF SHOP EQUIPMENT. (0-3) *Credit 1. I, II.* The care and upkeep of shop tools and equipment; gumming, milling, jointing, sharpening of circular saws, setting and filing hand saws, brazing band saws, sharpening jointer knives.

214. CABINETMAKING. (2-6) *Credit 4. I.* Introduction to woodworking machines through their use and care; construction of small pieces of period furniture embodying good design and specific units of instruction. Prerequisite: fundamental woodworking, freehand drawing.

223. WOOD TECHNOLOGY. (3-0) *Credit 3.* II. Structures and properties of woods; characteristics and distribution of common species; lumbering, sawmilling, kilning, grading, measurements, markets.

314. MACHINE WOODWORKING. (2-6) *Credit 4.* I, II. Production method in the use of power machines. Practical experience with the techniques of modern mass production. Prerequisite: Woodwork 114-214.

322. PATTERN MAKING. (0-6) *Credit 2.* II. Care and use of bench and machine tools used in pattern making, materials used in the making of patterns; meaning, use and construction of patterns to illustrate principles of draft, shrinkage, finish, warp, and core prints.

323. WOOD TURNING. (1-6) *Credit 3.* II. Proper care and use of the lathe and lathe tools; the principles of cutting and scraping; the making of projects with emphasis on good design. (Prerequisite: Woodwork 214.)

414. FURNITURE AND CABINETMAKING. (2-6) *Credit 4.* I. Advanced course with emphasis on art and design in furniture construction; construction of period and modern style furniture.

DIVISION OF NURSING EDUCATION

The Division of Nursing Education offers two basic curricula; one, over a period of three years, leading to a Diploma in Nursing; and the other, over a period of four years, leading to the degree of Bachelor of Science in Nursing. Upon completion of either curriculum, the nurse is eligible to take the Nurses' State Board Examination. An advanced curriculum has been developed for the graduate registered nurse. It is planned for the individual. The length of the program will depend upon the applicant's background.

Students with the highest scholastic rating in their respective high schools and students with one or more years of college credit are given preference among applicants for admission to the Division of Nursing Education. (Applicants must send two transcripts—one for the College Registrar and one for the Nursing Education records.)

NECESSARY ARTICLES

Applicants are required to bring the following articles: four sheets, three pillow cases, one pillow, sufficient bed cover, umbrella, raincoat, overshoes, two spreads, four face towels, four bath towels, a work box containing instruments for mending, and an inexpensive watch with a second hand.

VACATION

A vacation of three weeks is given each year.

SPECIAL REQUIREMENTS

In addition to the completion of an acceptable 4-year high school course of study the following special requirements must be met by those who desire to enter the Division of Nursing Education.

1. Applicants must be 17 years old upon entrance to the division and under 30.
2. Applicants must have a thorough pre-entrance physical examination as evidence of physical fitness.

3. Applicants will be required to take a pre-nursing and guidance test given by the National League of Nursing Education, for which a fee of \$5.00 is paid.

Prairie View A. & M. College School of Nursing, is affiliated with Jefferson Davis Hospital School of Nursing, Houston, Texas; and John Sealy Hospital School of Nursing, Medical Branch University of Texas, Galveston, Texas.

THREE-YEAR CURRICULUM

FIRST YEAR—FIRST SEMESTER

Course No.	Title	Clock Hrs.	Lec.	Lab.	Sem. Hrs.	Cr.
English 113	Grammar and Composition	54	3	0	3	3
Education 103	Orientation	54	3	0	3	3
Nursing Ed. 153	Anatomy and Physiology	54	3	0	3	3
Nursing Ed. 114	Chemistry for Nurses	108	2	4	4	4
Nursing Ed. 116	Introduction to Nursing Arts	144	2	6	4	4
Nursing Ed. 133	History of Nursing and Professional Ethics	54	3	0	3	3
Physical Ed. 111	Gymnastics	36	0	2	2	1

SECOND SEMESTER

Nursing Ed. 143	Foods, Nutrition and Diet Therapy	54	3	0	3	3
English 123	Composition (Communication)	54	3	0	3	3
Nursing Ed. 163	Anatomy and Physiology	54	3	0	3	3
Nursing Ed. 140	Clinical Practice	426	0	30	0	0
Nursing Ed. 126	Advanced Nursing Arts	144	2	6	4	4
Nursing Ed. 124	Microbiology and Pathology	108	2	3	4	4
Nursing Ed. 182	Pharmacology and Therapeutics	36	0	2	2	2
Physical Ed. 121	Games and Gymnastics	36	0	2	2	1

FIRST YEAR—SUMMER SEMESTER—SIXTEEN WEEKS

Nursing Ed. 103	Sociology for Nurses	54	3	0	3	3
Nursing Ed. 374	Medical and Surgical Nursing	54				

SECOND YEAR

Spent at Jefferson Davis Hospital, Houston, Texas

SECOND YEAR—FIRST SEMESTER

Groups I and II

	Clock Hrs.	Lec.	Lab.
Medical and Surgical Nursing II	163	9	0

Groups III and IV

Operating Room Technique	15	1	0
Medical Nursing (Group III)	82	4 1-2	0
Psychiatric Nursing (Group III)	54	3	0
Obstetrics (Group IV)	36	2	0

SECOND YEAR—SECOND SEMESTER

Groups I and II

Operating Room Technique	15	1	0
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Groups III and IV

Obstetrics (Group III)	36	2	0
Medical Nursing (Group IV)	82	4 1-2	0

SUMMER SESSION

	Group I			
Obstetrics (Group I)	36	2	0	
	Groups III and IV			
Pediatrics (Group III)	60	3 1-2	0	
Surgical Nursing (Group IV)	81	4 1-2	0	
	Group II			
Medical Nursing	82	4 1-2	0	

THIRD YEAR—FIRST SEMESTER

	Groups I and II			
Pediatrics	60	3 1-2	0	
Obstetrics (Group II)	60	2	0	
Public Health Nursing	36	2	0	
Psychiatric Nursing	54	3	0	
Professional Adjustments II	36	2	0	
	Groups III and IV			
Surgical Nursing (Group III)	81	4 1-2	0	
Public Health Nursing	36	2	0	
Psychiatric Nursing (Group IV)	54	3	0	
Professional Adjustments II	36	2	0	

THIRD YEAR

Six months spent at Jefferson Davis Hospital in Houston, Texas, three months spent at John Sealy Hospital in Galveston, Texas and three months spent at Prairie View Hospital.

Six Months at Jefferson Davis Hospital

Public Health Nursing	36
Professional Adjustment II	36

Three Months Spent at John Sealy Hospital

Psychiatric Nursing	54
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Three Months Spent at Prairie View Hospital

Electives in Area of Specialization
Ward Management
Communicable Diseases
Out Patient Department, Etc.

These electives are to be worked out in consultation with the Educational Director of Jefferson Davis Hospital, John Sealy Hospital, and the Superintendent of Nurses at Prairie View Hospital.

SUPPLEMENTARY DEGREE CURRICULUM

FOUR-YEAR

FIRST SEMESTER

English 213	3
Public Speaking	3
Education 273	3
Pupil Growth and Development	3
Education 333	3
High School Methods	3
Pol. Science 263	3
National Government	3
Philosophy 303	3
Philosophies of Life	3
Nursing Education 433	3
Nursing in the Modern Social Order	3

SECOND SEMESTER

English 223	3
Introduction to World Literature	
Education 313	3
Principles of Sec. Education	
Sociology 403	3
Introduction to Social Casework	
Political Science 203	3
State Government	
Nursing Education 453	3
Principles and Methods of Teaching in Schools of Nursing	
Education 283	3
Pupil Growth and Development	

SUMMER SESSION

Nursing Education 423	3
Trends in Nursing Education	
Nursing Education 403	3
Seminar in Nursing	
Nursing Education 506	6
Field Work	

DEGREE CURRICULUM

FOUR-YEAR COURSE

FIRST YEAR

First Semester	Hrs.	Second Semester	Hrs.
English 113	3	English 123	3
Grammar and Composition		Reading and Composition	
Biology 154	4	Biology 164	4
Anatomy and Physiology		Anatomy and Physiology	
Chemistry 104	4	Nursing Education 143	3
General Chemistry		Foods and Nutrition	
Psychology 103	3	Chemistry 124	4
General Psychology		General Organic and Physiological Chemistry	
Nursing Arts 111	1	Biology 124	4
Orientation to Nursing Arts		Microbiology and Pathology	
Nursing Arts 114	4	Nursing Education 124	4
Elementary Nursing Arts		Elementary Nursing Arts	
Physical Education 111	1	Physical Education 121	1
		Nursing Education 183	3
		Pharmacology	

Summer Session

	Formal Lec.	Lab.	Ward Class	Total Clock Hours	Total Sem. Hours	Hours Clinical Practice	Weeks Clinical Practice
Nursing Education 103	54			54	3		
Nursing History							
Medical Nursing 213	54	30		84	3		
General Medical Nursing							
Surgical Nursing 213	54	30		84	3	972	20 Med.)
General Surgical Nursing							4 D.K.)
Sociology 264							5 T.B.)
Social and Health Aspects of Nursing (applied to M&S - integrated throughout clinical courses and ending with P. H. Field)							4 C.D.)
							20 Surg.)
							8 O.R.)

SECOND YEAR

First Semester

	Lec. Formal	Lab.	Class Ward	Hours Clock Total	Hours Sem. Total	Practice Clinical Hours	Practice Clinical Weeks
Medical Nursing 223	60		30	90	3		
Medical Specialties (included in Gen. Med) Diet Therapy							
Geriatrics							
Pathology							
Communicable Disease							
Dermatology							
Tuberculosis							

Surgical Nursing 223	60	30	90	3
Surgical Specialties (Included in Gen. Surg.)				
Sociology 263	54		54	3
Sanitation and Community Health				

Second Semester**Medical and Surgical Nursing con't.****Summer Session**

Psychiatry - 214)	54	24	78	4	455	13
Pediatrics - 214)	54	24	78	4	455	13
Obstetrics - 214)	54	24	78	4	455	13

These courses are continued
next three semesters until
all students have had them.

THIRD YEAR**First and Second Semester**

Continuation of Lectures
and Experience in Courses
outlined above—Summer
Session of Second Year.

Sociology 264	60	60	4	280	8 P.H.)
Nursing and Health in the Family—Social Aspects of Nursing completed.					Field Exp.

Summer Session

Completion of courses
outlined above

Nursing Education 222	30	30	2		
Professional problems and Legal Aspects					

FOURTH YEAR

First Semester	Hrs.	Second Semester	Hrs.
English 213	3	English 223	3
Public Speaking		Introduction to Literature	
Political Science 263	3	Political Science 203	3
National Government		State Government	
Sociology 233	3	Social Service 403	3
Rural Sociology		Introduction to Social Case Work	
Nursing Education 413	3	Nursing Education 443	2
Principles of Teaching Home Nursing		Principles of Rural Health	
Sociology 303	3	Electives (2)	6
The Family			
Nursing Education 433	3		
Nursing in the Modern Social Order			

Summer Session

	Formal Lec.	Lab.	Ward Class	Total Clock Hours	Total Sem. Hours	Hours Clinical Practice	Weeks Clinical Practice
Social Service 423	54			54	3		
Introduction to Social Group Work							
Nursing Education 513	54			54	3	12-24	6
Unit Management and Teaching							
Nursing Education 523	108			108	6		
Seminar in Nursing							

*** At the request of the student, the Dean may permit some substitution in the Sociology, Social Sciences, Economics, Mathematics and Education Courses prescribed in the Fourth Year.

DESCRIPTION OF COURSES

BIOLOGICAL AND PHYSICAL SCIENCES

104. GENERAL CHEMISTRY. (2-4) *Credit 3*. I. Fundamental principles of organic chemistry; atomic structure, the electron theory of valence, chemical equilibrium, oxidation and reduction.

124. GENERAL ORGANIC AND PHYSIOLOGICAL CHEMISTRY. (2-4) *Credit 4*. II. Fundamental concepts of organic compounds and physiological chemistry; general composition of blood, urine, digestion and utilization of foods.

123. ELEMENTARY NUTRITION. (1-2) *Credit 3*. II. Developing food selection habits which meet nutritional standards through an understanding of the essentials of an adequate diet and nutritive properties of common foodstuffs—selection of foods to meet the economic and nutritive needs of persons of different ages and activities.

124. GENERAL MICROBIOLOGY. (2-4) *Credit 4*. I. Morphology and physiology of microorganisms related to health and sanitation; asepsis, disinfection and the growth and control of those organisms causing common infectious diseases.

154. ANATOMY AND PHYSIOLOGY. (2-4) *Credit 3*. I and II. A study of structure and function of the human body; the structure of each of the systems demonstrated by models, charts and animal dissections; their functions studied by experiments.

164. ANATOMY AND PHYSIOLOGY. (2-4) *Credit 4*. I and II. Structure and functions of the human body; the structure of each of the systems demonstrated by models, charts and animal dissections; their functions studied by experiments.

183. MATERIA MEDICA, PHARMACODYNAMICS, THERAPEUTICS AND TOXICOLOGY. (1-3) *Credit 3*. Summer Session. Drugs and substances acting as drugs and their relationship to the treatment of disease; commonly used drugs, their action, uses, characteristics, modes of administration, preparation and dosage, nursing care and the social and economic importance—including material concerning the protection of the public in the use of drugs.

MEDICAL SCIENCES

213. GENERAL MEDICAL NURSING. (3-0) *Credit 3*. Summer Session. Causes, symptoms, treatments, prevention and control of general medical conditions; remedial nursing care, including the care of patients at various age levels.

213. GENERAL SURGICAL NURSING. (3-0) *Credit 3*. Summer Session. Fundamental concepts of nursing care in general surgical conditions; supportive nursing, public health, social and economical problems related to these conditions in patients of various age groups; scientific basis for aseptic operative technic.

214. NURSING CARE OF MOTHER AND NEWBORN. (4-0) *Credit 4*. I and II. (Given to $\frac{1}{4}$ of the class at a time, parallel with clinical practice in the care of mother and newborn). Human reproduction, including the psychological, and pathological aspects of pregnancy, parturition, puerperium and neonatal period; public health problems related to maternity and newborn care.

214. GROWTH AND DEVELOPMENT AND NURSING CARE OF CHILDREN. (4-0) *Credit 4.* I and II. (Given to $\frac{1}{4}$ of the class at a time, parallel with clinical practice in the care of children.) The physical, mental, emotional and social growth and development of the normal child; the study of the specific diseases of infancy and childhood; the nutrition and feeding of infants and children in normal and diseased conditions.

214. MENTAL HYGIENE AND PSYCHIATRIC NURSING. (4-0) *Credit 4.* I and II. (Given to $\frac{1}{4}$ of the class at a time, parallel with clinical practice in psychiatric nursing.) Etiology, symptomatology, treatment, special therapy and nursing care of the more common types of mental conditions; mental hygiene integrated throughout.

223. MEDICAL SPECIALTIES. (3-0) *Credit 3.* I. Survey of medical principles fundamental to nursing in the fields of diet therapy, pathology, communicable disease, dermatology, tuberculosis and geriatrics.

223. SURGICAL SPECIALTIES. (3-0) *Credit 3.* I. Causes, treatment and prevention of the conditions requiring surgical intervention in the fields of orthopedics; gynecology; eye, ear, nose and throat; urology; plastic and neurosurgery; nursing care, including rehabilitation; social and economical aspects related to the conditions at various age groups.

NURSING AND ALLIED ARTS

111. ORIENTATION TO NURSING. (1-0) *Credit 1.* I. Orientation to nursing; the school of nursing, the hospital and community; the functions and the scope of nursing; professional and community environment—including inter—and intra-professional relationships and professional ethics and conduct.

112. PRE-CLINICAL NURSING PRACTICE. (0-12) *No semester hours credit.* 216 hours. I. Supervised practice for the beginning nurse in the application of nursing principles and methods of care for patients in the hospital.

116. INTRODUCTION TO NURSING ARTS. (2-4) *Credit 4.* 144 hours. I. Principles of nursing with emphasis upon her attitude towards the patient, existing social relationships, the physical requirements for the proper care of patients and the procedures found most helpful for the promotion of health.

122. PRE-CLINICAL NURSING PRACTICE. (0-13) *No semester hours credit.* 234 hours. II. Continuation of Nursing Education 112.

126. ADVANCED NURSING ARTS. *Credit 3.* Summer Session. Principles and practice of the more advanced procedures used in caring for patients. Stress is placed on planning the care of the patient as a whole—developing habits of observation, organization, economy of time and dexterity in nursing practice. The course should be coordinated and integrated with courses in medical and surgical nursing; includes procedures for first aid care of patients in the hospital, in the home, in industry or other occupational environment as well as transportation and recreational accident and emergencies.

132. HISTORY OF NURSING AND PROFESSIONAL ETHICS. (3-0) *Credit 3.* 54 hours. I. Historical development of Nursing from its early conception to modern times.

222. PROFESSIONAL PROBLEMS AND LEGAL ASPECTS. (2-0) *Credit 2.* Jurisprudence and Legal aspects of Nursing: (a) legal principles involved

in the various phases of the nursing profession; (b) professional problems—personal and professional problems of adjustment to modern nursing conditions, opportunities to practice nursing, organization, function and need for professional associations and organizations, survey of the need and opportunity for advanced education.

403. SEMINAR IN NURSING. *Credit 3*. I. Investigation of some problem in nursing; recognizing problems and offering solutions for them.

413. PRINCIPLES OF TEACHING. (3-0) *Credit 3*. I. A study of general education principles and technics of teaching and their application to teaching home nursing.

423. TRENDS IN NURSING EDUCATION. (3-0) *Credit 3*. I. The origin and growth of nursing education in the United States; the implications for changes in the education of nurses.

433. NURSING IN THE MODERN SOCIAL ORDER (3-0) *Credit 3*. I. Fourth Year. A survey course showing relation of nursing to modern social and health trends, including a study of significant nursing and health surveys.

443. PRINCIPLES OF RURAL NURSING. (3-0) *Credit 3*. II. Fourth Year. Principles and value of health programs for rural communities with the social and psychological factors of environment emphasized along with individual health—a survey of the activities of both rural hospital and rural public health nurses; includes field trips and excursions, active participation and observation of rural health programs.

453. PRINCIPLES AND METHODS OF TEACHING IN SCHOOLS OF NURSING. *Credit 3*. Application of the principles and methods of general education to nursing.

506. FIELD WORK. *Credit 6*. Experience in teaching in the school of nursing; affords opportunities to become acquainted with other community agencies.

513. UNIT MANAGEMENT AND TEACHING. (3-0) *Credit 3*. Summer Session. A detailed study of the functions and responsibilities of the head nurse as a member of the hospital service-team; methods and practices of ward administration and teaching.

523. SEMINAR IN NURSING. *Credit 6*. Summer Session. Application of principles and procedures to care of patients discussions; demonstrations and lectures.

SOCIAL SCIENCES

133. HISTORY OF NURSING AND PROFESSIONAL ETHICS. (3-0) *Credit 3*. I. Historical development of Nursing from its early conception to modern times.

264. SOCIAL AND HEALTH ASPECTS OF NURSING. (4-0) *Credit 4*. Consists of the integration of public health into the basic course of nursing education and emphasizes preventive health and social implications from the time the student enters the school of nursing until the completion of her course; integrates into the whole basic nursing curriculum the social and health phase of patient, family and community nursing care with stress on student teaching of patients under supervision; terminates with Nursing and Health in the Family, which parallels the student's experience in the public field.

263. SANITATION AND COMMUNITY HEALTH. (3-0) *Credit 3.* I. Nature and scope of public health work in the community and the role of the nurse in such activities; introduction to the agencies responsible for promoting health programs of the community; excursions and field trips to the health and welfare agencies are provided.

403. INTRODUCTION TO SOCIAL CASE WORK. (3-0) *Credit 3.* II. The point of view of the social case worker regarding human relationships; appreciation of needs and problems causing individuals to seek help of social agencies; some understanding of the basic process of social case work practice.

423. INTRODUCTION TO SOCIAL GROUP WORK. (3-0) *Credit 3.* Summer Session. Fundamentals of professional group work; group processes and behavior interpersonal relations; the contribution of allied fields, leadership, programs and agencies.

CORRESPONDENCE DEPARTMENT

The courses indicated below are available through correspondence. The same admission requirements that are listed for residence work apply to correspondence enrollments. Specific instructions regarding correspondence courses not contained herein will be given on request.

CORRESPONDENCE COURSE FEES

2 semester hours	\$15.00
3 semester hours	22.00
4 semester hours	29.00

NOTE.—The textbooks named below may be changed from time to time, and the student should wait until he receives lesson assignments before ordering books.

BUSINESS ADMINISTRATION

253. ACCOUNTING. *Credit 4.* Basic accounting principles and practices. Textbook: Noble's *Accounting Principles*, Fifth Edition (Southwestern Publishing Co., Cincinnati) Prerequisite: Sophomore standing

263. ACCOUNTING. *Credit 4.* Continuation of 253. Prerequisite: BA 253.

463. BUSINESS LAW. *Credit 3.* Fundamental principles of law most frequently involved in business transactions. Prerequisite: Nine hours of Economics.

ECONOMICS

213. PRINCIPLES OF ECONOMICS. *Credit 3.* Survey of the field of economics, dealing with basic economic principles and practices.

EDUCATION

283. INTRODUCTION TO EDUCATIONAL PSYCHOLOGY. *Credit 3.* Topics in educational psychology relating to an understanding of the learning process and the conduct of children. Textbooks: Douglass and Holland's *Fundamentals of Educational Psychology* (The Macmillan Company, New York and Dallas, 1938, \$4.75); Mursell's *Educational Psychology* (W. W. Norton and Company, New York, 1939, \$3.50).

113. INTRODUCTION TO EDUCATION. *Credit 3.* Prerequisite to other courses in education, professional problems of education. Textbooks: Reeder's *A First Course in Education*, Revised Edition, 1950 (The Mac-

millan Company, New York and Dallas \$4.50); and Russell and Judd's *The American Educational System* (Houghton Mifflin Company, New York and Dallas, \$3.50). Otto's *Principles of Elementary Education* (Rinehart and Co., New York, \$4.00); Adams' *Educating America's Children* (The Ronald Press, New York, \$3.75) Caswell and Foshay's *Education in the Elementary School* (American Book Company, Dallas \$3.25).

343. CHILD PSYCHOLOGY. *Credit 3.* The child from prenatal period to the beginning of adolescent; major problems in child development. Textbooks: Goodenough's *Developmental Psychology* (D. Appleton-Century Company, New York, \$4.50); Conklin's *Principles of Adolescent Psychology* (Henry Holt and Company, New York \$3.50); *Baker's Introduction to Exceptional Children* (The Macmillan Company, New York and Dallas, \$5.00). Prerequisite: Education 103 and 113 and sophomore standing; for home economics students HE 113 Orientation and Education 113 and sophomore standing.

383. EDUCATIONAL PSYCHOLOGY. *Credit 3.* Educationally significant factors involved in the interaction of pupils, teachers, administrators and community. Textbooks: Douglas and Holland's *Fundamentals of Educational Psychology* (The Macmillan Company, New York and Dallas, 1938, \$4.75); Goodenough's *Developmental Psychology* (D. Appleton-Century Company, New York, 1934, \$4.50); Carroll's *Mental Hygiene* (Prentice-Hall, Inc., New York, \$4.75). Prerequisite: Sophomore standing.

523. CHILDREN'S LITERATURE. *Credit 3.* Development, types, classification and teaching of literature in elementary grades; examination and analysis of children's books and story-telling. Prerequisite: Education 314 and 317; junior standing.

ADMINISTRATION AND SUPERVISION

563. GUIDANCE OF THE PRE-SCHOOL CHILD. *Credit 3.* Preparation for work with pre-school children either in the home or in child service centers; guidance of mental, social and emotional development. Textbooks: Jersild's *Child Psychology*, Revised Edition (Prentice-Hall, New York, \$4.75); Wolf's *Parent's Manual* (Simon and Schuster, New York, \$2.95); Alschuler's *Two to Six*, Revised Edition (William Murrow and Company, New York, \$2.50). Prerequisite: Sophomore standing.

573. ORGANIZATION AND ADMINISTRATION OF THE JUNIOR HIGH SCHOOL. *Credit 3.* The origin, development, and forms of organization and administration of the junior high school. 15 lessons (readings, the solution of administrative problems, and original theme, and an examination). Textbooks: Smith, Stanley and Hughes' *Junior High School Education* (McGraw-Hill Book Company, New York, \$4.75); Gruhn and Douglass' *The Modern Junior High School* (Roland Press, New York, \$5.25). Prerequisite: Education 313 and 343.

ENGLISH

113. GRAMMAR AND COMPOSITION. *Credit 3.* Intensive review of functional grammar; practice in principles of written composition. Textbooks: Thomas, Manchester and Scott's *Composition for College Students*, Fifth Edition, 1948 (The Macmillan Company, New York and Dallas, \$3.90);

Loomis and Clark's *Modern English Readings*, Fourth Edition, 1942 (Farrar and Rinehart, New York, \$4.00). Woolley, Scott and Bracher's *College Handbook of Composition*, Fifth Edition (D. C. Heath and Company, Boston and Dallas, \$2.50).

123. READING AND COMPOSITION. *Credit 3*. Continuation of 113; written work based on provocative readings and periodical literature. Textbooks: Thomas, Manchester and Scott's *Composition for College Students*, Fifth Edition, 1948 (The Macmillan Company, New York and Dallas, \$3.90); Loomis and Clark's *Modern English Reading*, Sixth Edition, 1942 (Farrar and Rinehart, New York, \$4.00).

343. ENGLISH COMPOSITIONS EXPOSITORY WRITING. *Credit 3*. Rhetorical principles; analysis of certain masterpieces of English Prose; writing of a number of essays; stress on written work. Textbooks: *Form and Style* by Clark and others (F. S. Crofts and Company, New York, \$1.75); Kern and Greggs' *This America* (The Macmillan Company, New York and Dallas, \$3.50). Prerequisite: English 113 and 123 with an average grade of at least "C."

543. THE SHORT STORY. *Credit 3*. Short Story writing using contemporary models. Textbooks: Frederick's *A Handbook of Short Story Writing*, Revised Edition (F. S. Crofts and Company, New York, \$1.40); Blogett's *The Story Survey* (J. B. Lippincott Company, Philadelphia, \$3.50). May count as Journalism. Prerequisite: A grade of "A" or "B" in six hours of sophomore English.

FRENCH

213. READING AND GRAMMAR REVIEW. *Credit 3*. French conversation, idioms and verb drill; reading material; simple principles of French grammar and syntax; outside reading required. Textbooks will be selected from following: Fraser and Squir's *New Complete French Grammar*, 1921 Edition (D. C. Heath and Company, Boston and Dallas, \$2.90), Haleny's *L'Abbe Constantin* (American Book Company, New York \$1.00); Labiche and Martin's *Le Voyage de Monsieur Perrichon*, 1926 (Lafayette Series, Edited by Zeek, Johnson Publishing Company, Dallas and Chicago, \$1.00); Hugo's *Gavroche* (Oxford University Press, New York, \$.90).

223. READING AND GRAMMAR REVIEW. *Credit 3*. A continuation of French 213. Textbooks will be selected from the following: Fraser and Squair's *New Complete French Grammar*, 1921 Edition (D. C. Heath and Company, Boston and Dallas, \$2.90); Lesage's *Gil Blas* (American Book Company, New York \$1.50); Smith-Posgate's *French Short Stories* (The Macmillan Company, New York and Dallas, \$1.65).

133. READING FOR SCIENCE MAJORS. *Credit 3*. Mimeographed material furnished by instructor. Recommended material: A French-English dictionary (De Vries for general science; Patterson for chemistry; Oxford, Heath or Funk and Wagnalls for general use); a grammar or verb wheel for learning the verbs. Prerequisite: French 113 and 123. Textbook: Dabney's *French for Science and Technical Majors*, (University Cooperative Society, Austin, \$1.50). Aveline's *Victure 7, Place 15* (Henry Holt and Company, New York, \$1.90).

GEOGRAPHY

213. INTRODUCTION TO GEOGRAPHY; PHYSICAL ELEMENTS I. *Credit 3.* Major elements of physical geography; elements of weather and climate, climatic types and their distribution, landforms, earth resources, etc. Textbooks: Finch and Trewartha's *Physical Elements of Geography*, (McGraw-Hill Book Company, Third Edition, 1949, \$6.00); Goode's *School Atlas*, 1949, (Rand McNally and Company, Chicago, \$5.75). Recommended for all students who plan to concentrate in physical geography.

313. GEOGRAPHY OF THE U.S.S.R. AND ITS EUROPEAN BODERLANDS. *Credit 3.* Physical and economic setup of the U.S.S.R. and an area including all countries of theStettin-Trieste line; Study of Soviet resources and their development; causes of the distribution of industrial activities and significance of the resulting production. Textbooks: Gregory and Shave's *The U.S.S.R.*, (John Wiley and Sons, 1946, \$5.00); S. van Valkenburg, *Europe*, (John Wiley and Sons, 1936, \$6.00); Denoyer-Geppert's *Soviet Russia in Maps* \$1.25. Maps of the Union of Socialist Republics, December 1944 (National Geographic Society, Washington, D. C., \$.50) *Goode's Series of Base Maps No. 204 Europe and No. 205 Asia*, \$1.80); Prerequisite; Twelve hours in the following subjects, including at least six hours of sophomore course: Antropology, business administration, economics, geology, government, history.

223. POLITICAL GEOGRAPHY. *Credit 3.* Geographic-political problems, resources and peoples of various nation; empires of the world as a background for a better understanding of current events. Textbooks: Percy and Fifield's *World Political Geography*, T. Y. Crowell, 1949, \$6.00) and *Goodes School Atlas* \$5.75; Whittlesey's *The Earth and the State*, 1945, Henry Holt and Co., New York. Prerequisite: Eighteen hours in the following subjects, including six hours of advanced courses; anthropology, business administration, economics, geography, geology, government, history.

GOVERNMENT

1X3. STATE AND NATIONAL GOVERNMENT. *Credit 3.* The American system of government; the federal system and the relationship of the states to the national government, special references to Texas. Required by law in the state of Texas for graduation and teacher certification; a prerequisite for other courses in Political Science. Textbooks: Burns and Peltason's *Government by the People*, First Edition, 1952, Prentice-Hall, Inc., New York, \$5.50; and Mac Corkle and Smith's *Texas Government*, Second Edition, 1952, McGraw-Hill Book Co., New York, \$4.50. Prerequisite: This course is available to all applicants who can meet the entrance requirements and furnish a college transcript showing successful completion of 45 semester hours in an approved college.

433. AMERICAN FOREIGN RELATIONS. *Credit 3.* American relations with Latin-America and the rest of the world; public opinion, economic, social and political forces that have determined American foreign policy. Prerequisite: History 213, 223 and any courses in Political Science. May be taken as History 633 or 643. Textbooks: Bemis' *The Latin American Policy of the United States*, 1943 (Harcourt, Brace and Company, New York, \$5.50); Stuart's *Latin America and the United States*, Fourth Edition, 1943 (D. Appleton-Century Company, New York, \$4.50).

443. FOREIGN POLICIES OF THE UNITED STATES. *Credit 3.* Origins and application of the most prominent policies of the United States, in its relations to other countries; regional policies of the United States, economic diplomacy, and policies of peace and world organization. Prerequisite: State and National Government 1X3. Textbook: Bemis' *A Diplomatic History of the United States*, Third Edition, 1950 (Henry Holt and Company, New York, \$5.75).

HISTORY

103. MEDIEVAL EUROPE. *Credit 3.* Europe from the fall of Rome to 1500. Textbooks: Ault's *Europe in the Middle Ages*, Revised Edition, 1937 (D. C. Heath and Company, Boston and Dallas, \$5.75); Boak, Hyma, and Slossan's *The Growth of European Civilization*, Volume 1, 1938 (F. S. Crofts, New York, \$3.50); and Robinson's *Reading in European History*, Volume I, 1906 (Ginn and Company, New York and Dallas, \$4.50).

133. EUROPE 1500-1914. *Credit 3.* Europe from the Protestant Reformation to World War I. Textbooks: Riker's *A History of Modern Europe*, 1948 (A. A. Knopf Company, New York and Dallas \$6.00); Boak, Hyma and Slossan's *The Growth of European Civilization*, Volume II, 1938 (F. S. Crofts, New York, \$3.50); Packard's *The Age of Louis XIV*, 1929 (Henry Holt and Company, New York, \$1.40); and Robinson's *Readings in European History*, Volume II, 1906 (Ginn and Company, New York and Dallas, \$5.00)

213. THE UNITED STATES, 1492-1865. *Credit 3.* American development from the period of discovery to the Civil War. Textbooks Hicks' *The Federal Union*, Second Edition, (Houghton-Mifflin Co., New York, \$5.75); Biesele, Ezell and Fite's *Readings in American History*, Volume I, (Houghton-Mifflin Co., New York, \$2.50). Prerequisite: Sophomore standing.

223. THE UNITED STATES, 1837-1898. *Credit 3.* Survey period of Bourgeoise revolution and rise of group democracy in America. Textbooks: Hicks' *The Federal Union*, Second Edition, (Houghton-Mifflin, Co., New York, 5.75); Cotner, Ezell, and Fite's *Readings in American History*, Volume II, (Houghton, Mifflin Co., New York, \$2.50.)

MATHEMATICS

133. SOLID GEOMETRY. *Credit 2.* Sound ideas as to the nature of a geometrical proof; foundations upon which the science rests; original problems and numerical examples. Five lessons, Textbooks: Welchons Krickenberg's *Solid Geometry*, Revised Edition (Ginn and Company, New York and Dallas, \$2.60).

113. COLLEGE ALGEBRA. *Credit 3.* Selected topics from standard algebra. Textbook: Rider's *College Algebra* (The Macmillan Company, New York and Dallas, \$3.40).

123. TRIGONOMETRY. *Credit 3.* Standard selections from plane trigonometry. Textbook: Palmer and Leigh's *Plane and Spherical Trigonometry*. Fourth Edition, with tables (MacGraw-Hill Book Company, New York, \$3.00). Prerequisite: Two years of high school mathematics.

213. ANALYTICAL GEOMETRY. *Credit 2.* The point, the straight line, and the conic section. Textbook: Smith, Gale and Needley's *New Analytic Geometry* (Ginn and Company, New York and Dallas, \$3.20). Prerequisite: Trigonometry.

223. DIFFERENTIAL CALCULUS. *Credit 3.* The differentiation of algebraic and transcendental functions with applications. Textbook: Granville, Smith and Longley's *Differential and Integral Calculus*, Revised Edition, 1934 (Ginn and Company, New York and Dallas, \$4.75).

313. INTEGRAL CALCULUS. *Credit 3.* Evaluating ordinary integrals and their application to practical problems. Textbook: Same as for Mathematics 223.

423. DIFFERENTIAL EQUATIONS. *Credit 3.* Ordinary differential equations and their application.

PHILOSOPHY

303. PHILOSOPHIES OF LIFE. *Credit 3.* For beginning philosophy students; methods and theory of philosophy. Textbook: Titus' *Living Issues in Philosophy* (American Book Company, New York, \$4.00). Prerequisite: Sophomore standing.

323. ETHICS. *Credit 3.* Development of morals, standards of value, conscience and methods of social control. Textbooks: Drake's *Problems of Conduct*, Revised Edition (Houghton Mifflin Company, Boston, \$4.00); Wheelwright's *A Critical Introduction to Ethics* (The Odyssey Press New York, \$3.50). Prerequisite: Sophomore standing.

PHYSICAL EDUCATION

243. METHODS AND MATERIALS OF HEALTH EDUCATION. *Credit 3.* Meets State Department requirement for elementary teachers in health education; the school health program; the source of material in the field. Textbook: *Health Instruction Guide for Elementary School Teachers*, Bureau of Nutrition and Health Education, Division of Extension, The University of Texas, 1932, available on loan; Ruth Grout's *Handbook of Health Education*, 1948 (W. B. Saunders Company, Philadelphia \$4.00). Prerequisite: six semester hours in Education and Biology 114 or 354 or Physical Education 473.

PHYSICS

214. GENERAL PHYSICS. *Credit 4.* Mechanics, heat, sound, electricity and light. The lecture portion of Physics 214 may be taken by correspondence in two separate correspondence courses, 214 and 224, comprising the first and second semester's work, respectively. The laboratory work will have to be done in residence, either during the Summer Session or the Long Session. Degree credit will be given only when both the laboratory and lecture work have been completed. Textbook: Spinney's *Textbook of Physics, Fifth Edition* (The Macmillan Company, New York and Dallas, \$5.00).

224. GENERAL PHYSICS. *Credit 4.* Continuation of Physics 214.

312. ELECTRICITY AND MAGNETISM. *Credit 4.* The lecture portion only of Physics 312 may be taken by correspondence in two separate correspondence courses, 312, 322, comprising the first and second semester's work,

respectively. The laboratory work will have to be done in residence, either during the Summer Session or the Long Session. Degree credit will be given only when both the laboratory and lecture work have been completed. Textbook: Brown's *Fundamentals of Electricity and Magnetism*, (University Cooperative Society, \$2.25).

PSYCHOLOGY

103. ELEMENTARY PSYCHOLOGY. *Credit 3.* Principles of human behavior and their application. Prerequisite: Sophomore standing.

SOCIOLOGY

213. INTRODUCTION TO SOCIOLOGY. *Credit 3.* General phenomena of human society; fundamental social processes and social problems. Textbook: Dawson and Getty's *Introduction to Sociology*, 1948 (The Ronald Press, New York, \$5.00). Prerequisite: Sophomore standing.

SPANISH

223. ADVANCED GRAMMAR AND READING. *Credit 3.* Continuation of Spanish 213. Textbooks: Los Quinteros' *Asi se escribe la historia*, Edited by Place, New York, \$1.50; (Appleton-Century-Croft); Alarson's *El sombrero des tres picos*, Edited by Crawford, (The Macmillan Co., New York, 1.90); Peers' *Intermediate Spanish Composition*, (The Macmillan Co., New York, \$2.50).

DEPARTMENT OF EXTRAMURAL SERVICES

EXTENSION SCHOOLS

In an effort to serve the citizens of Texas at the point of their greatest needs, Prairie View A. & M. College extends its in-service teacher education program to various centers in the state where a sufficient number of teachers have requested this opportunity for professional growth. It is necessary that a request for an Extension Center be approved by the county and city superintendents before its activation. The classes are designed primarily to meet the needs of in-service teachers on the graduate and undergraduate levels, but this does not preclude enrollment of other qualified professional or non-professional persons. It is possible for a full-time teacher to earn 6 semester hours per school year in off-Campus Extension Centers. The entrance requirements are the same as those for resident students. At present there are 17 Extension Centers in operation in Austin, Brenham, Bryan, Caldwell, Corsicana, Diboll, Galveston, Giddings, Greenville, Jasper, Lubbock, Navasota, Pittsburg, Prairie View, Taylor, Texarkana, and Yoakum.

ON-CAMPUS SATURDAY CLASSES

Prairie View has extended its services to in-service teachers who wish to earn resident credit toward a higher degree by offering Saturday classes on the graduate level. These classes are designed to offer interested persons an opportunity for professional development as well as earn resident credit leading to the Master's Degree. Classes are offered in the following fields of study: Elementary Education, Administration, Supervision and additional fields when requested. Persons interested in enrolling are asked to contact the Director of Extramural Services for further information.

ENROLLMENT

REGULAR SESSION 1952-53

ABBREVIATIONS: Ag—Agriculture; A&S—Arts and Sciences; HE—Home Economics; Engr—Engineering; Ind. Ed.—Industrial Education; NE—Nursing Education.

SYMBOLS: 1—Freshmen; 2—Sophomore; 3—Junior; 4—Senior; 5—Grad 6—Spec; Uncl—Unclassified; *—Veteran.

Classification shown as of September 1952 for students first semester (1); as of February 1953 for students attending second semester only (2) or both semesters.

Abner, Rudolph; A&S-3	Baytown	(2) Armstrong, Nonie Mae;	
Adair, Bonnie Faye; A&S-2	Mt. Pleasant	Ind Ed-1	Marlin
Adams, Charles R.; A&S-1	Port Arthur	(2) Armstrong, Onie M.; Ind Ed-1	Marlin
Adams, Everett J.; A&S-1	Beaumont	Arnold, Antonio; Engr-1	Amarillo
Adams, John Quincy;		Arnold, Catherine; A&S-3	Dallas
A&S-1	Mt. Enterprise	Arterberry, Berta D.; A&S-2	Troupe
Adams, Leona M. A&S-1	Fort Worth	Arthur, Aniece; NE-1	Houston
Adams, Mildred M.; A&S-4	Jasper	Arthur, Dollie Lee; HE-1	Palestine
Adams, Myrtle Eddie; A&S-1	Jasper	Atkins, Roy A.; A&S-2	Fort Worth
Adams, Billie Jean A&S-3	Fort Worth	Austin, Bobbie; A&S-4	Houston
Adams, Ceatrice; A&S-3	Port Lavaca	Austin, Luke A.; A&S-1	Waco
(2) Adkins, Imogene; NE-1	Las Vegas, Nev.	Averhart, Bettye L.; A&S-2	Corsicana
Ainsworth, Charles; A&S-1	Fort Worth	Ayers, Dollene E. H.; A&S-3	San Antonio
Albright, Donald J.; Engr-1	Denver	Bailey, Fred R.; A&S-1	Yoakum
Alex, Dorothy V.; A&S-3	Beaumont	Bailey, Ossie Lee; A&S-2	Kennedy
Alexander, Bloomie; A&S-2	Troupe	Bailey, Thelma A. M.; A&S-4	San Antonio
(2) Alexander, Cardell; A&S-1	Hooks	Baines, Naye Dean; A&S-4	Cleveland
Alexander, Erthlene; A&S-3	El Campo	Baker, Charles W.; A&S-1	Fort Worth
Alexander, Jack; A&S-1	Dallas	(2) Baker, Dorothy Mae;	
Alexander, James R.; Ind Ed-1	Houston	A&S-2	Port Arthur
(1) Alexander, Mary; NE-1	Houston	Baker, Eldora; A&S-1	Tyler
Alexander, Maurice L.; A&S-1	Huntsville	Baker, Ethel B.; A&S-3	Hearne
Alexander, Maurice; A&S-3	Oakwood	(2)* Baker, John W.; A&S-1	Port Arthur
Alford, Hazel J.; HE-1	Houston	Baker, Mattie Fern; A&S-2	Port Arthur
Allen, Albert E.; A&S-3	Galveston	Baldwin, Henrietta M.; A&S-2	Baytown
Allen, Alfred A.; Engr-4	Tyler	(2) Ball, Pat; Engr-1	Galveston
Allen, Bettye Jean; A&S-3	Carthage	Ball, Pauline; A&S-1	Galveston
Allen, Curtis Lee; A&S-1	Beckville	(2) Ballard, Verna L.; A&S-1	Hearne
Allen, David; Ag-5	Hallettsville	Banks, Blanche L.; A&S-3	Waco
Allen, Joe Wesley; A&S-1	San Antonio	Banks, Emma Lee; NE-4	Rockdale
Allen, Lawrence A.; A&S-2	Needville	Banks, Evelyn P.; A&S-4	Lufkin
Allen, Leon Q.; Ind Ed-1	Bay City	Banks, Joyce L.; A&S-1	Hughes Springs
Allen, Marcella L.; A&S-1	Sinton	(2)* Banks, Leo E.;	
Allen, Napoleon B.; A&S-2	Mt. Pleasant	Engr-1	Lake Charles, La
Allen, Peggie Jo; NE-2	Fort Worth	Baptiste, Gerald D.; A&S-2	Beaumont
Allen, Oletha L.; A&S-1	Fort Worth	Barber, John Edd; A&S-4	New Boston
Allen, Ollie P.; A&S-4	Malakoff	(2) Barber, Mildred L.;	
(2) Allen, Teddie C.; A&S-4	Fort Worth	A&S-4	Nacogdoches
Alton, Carly Lee; A&S-2	Mt. Enterprise	Barefield, Dorothy C.; NE-3	Port Lavaca
Alton, Arthur E. Jr.; A&S-1	Texarkana	Barksdale, William D.; A&S-1	Waco
Amev, Joyce Marie; A&S-3	Rosenburg	Barlow, Christene; A&S-3	Woodville
*Anderson, Charles B.; A&S-1	Hempstead	Barlow, Maggie L.; A&S-1	Woodville
Anderson, Christene; A&S-3	Carthage	*Barlow, Samuel; A&S-4	Beaumont
Anderson, Elizada; A&S-1	Ferris	Barlow, Sterling; A&S-1	Woodville
(2) Anderson, Dorris Y.; A&S-3	Longview	(2) Bates, Gene; Ind Ed-1	Waskom
(2) Anderson, Emma; A&S-1	Beaumont	Barnes, Bozie Jr.; Ag-1	Shepherd
Anderson, Ethel Mae; A&S-2	Jewett	Barnes, Carnegie Jr.; A&S-4	Camden
Anderson, Gloria D.; A&S-1	Galveston	Barnes, Elizabeth; A&S-1	Kennedy
Anderson, Hurlley Jr.; A&S-1	Malakoff	Barnes, Evelyn M.; A&S-2	Camden
Anderson, Patsy J.; A&S-3	Cameron	Barnes, Gene Darby; A&S-2	Longview
(2)* Anderson, Norris L.; Engr-1	Longview	Barnes, Kathryn N.; A&S-1	Camden
Anderson, S. A.; A&S-1	Ennis	Barnett, Louis C.; Ind Ed-1	Edna
Anderson, Shirley R.; A&S-1	Tyler	Barrett, Geraldine; A&S-3	Palestine
Anderson, Theresa; A&S-2	Beaumont	Barrett, Johnnie W.; A&S-2	Longview
Arceneaux, Leo; A&S-2	Raywood	Barrett, Juanita M.; A&S-2	Longview
Armeline, Marjorie A.; A&S-2	Port Arthur	Barry Alice Jean; A&S-3	Hallettsville
Armstrong, Bobbie L.; A&S-1	Beaumont	Barry, Mattie Mae; A&S-1	Dallas
Armstrong, Dorothy J.; A&S-3	Temple	Barryer, Thelma J.; A&S-4	Beckville

Bowie, Willie Mae; NE-3	Houston	Basye, Alpha J.; A&S-1	Brenham
Bowie, C. G.; A&S-4	Big Sandy	Bass, Mable Lee; A&S-3	Amarillo
*Bowie, Jessie Lee; A&S-3	Beaumont	Bastanes, Juan; A&S-5	Buffalo
Bowman, Thomas M.; A&S-2	Athens	(2)*Bateup, Edwards H.; IndEd-1	Temple
Boyd, Audrey B.; A&S-1	Houston	(2)Batts, Bobbie Jean; A&S-2	Waco
Boyd, Elma L.; A&S-2	Houston	Batts, Willie Pearl; A&S-2	Bremmond
(1)Boyd, James; A&S-4	Dallas	(1)Baty, Billie Ruth; NE-1	Wortham
(2)Boyd, Raymond E.; A&S-1	Houston	Beal, Ethelyn; NE-1	Houston
Boyd, Wesley A.; A&S-3	Fort Worth	Beal, Sarah Julina; A&S-3	El Paso
Boykin, Claude Ester; HE-1	Houston	Beasley, Juanita HE-1	Athens
Boykin, Elroy; A&S-1	Dallas	(2)*Beasley Murrell L.; Ag-2	Gilmore
Boykin, James E.; Engr-1	Zavalla	Beason, Lorenza; A&S-3	Palestine
Boykin, J. B.; A&S-1	Zavalla	Beatty, Curley J.; A&S-1	Jasper
Brackins, Charlie; A&S-2	Dallas	Beck, Pauline A.; A&S-3	Houston
*Brackshear, John W.; Ag-4	Houston	Beckett, Chester; A&S-1	Beaumont
Bradford, Bryant Jr.; Ag-2	Gilmer	Bell, Bertrice; A&S-2	Colmesneil
Bradford, Charles H.; A&S-1	Plano	*Bell, Ernest F.; Ext. Sc	
Bradford, Daisylyn; A&S-4	Alto	Bell, Hazel Arlene; HE-1	Port Arthur
Bradford, Laverne; NE-3	Smithville	Bell, George; Ag-2	Clarksburg
Bradford, Molly K.; A&S-3	Prairie View	Bell, Ima Jean; A&S-1	Mineola
Bradley, Joe Lamar; A&S-2	Longview	Bellinger, Thomas; A&S-3	Austin
(2)*Bradley, Carlton V.; A&S-	San Angelo	(2)*Bennett, Alton E.; A&S-1	Fairbanks
Brady, Alberta B.; A&S-5	Prairie View	Bennett, George W.; A&S-1	Vernon
Brailsford, Valree E.; A&S-4	Burkeville	Bennett, Rose Marie; A&S-1	Galveston
Branch, Raye M.; A&S-1	Port Arthur	Benson, Lenora Y.; A&S-Spec	Calvert
Branch, Elizabeth; A&S-4	Lockhart	Benson, Finkle Mae; A&S-2	Needville
Branch, Faye T.; A&S-3	Port Arthur	Berry, Edward Leen; NE-1	Crockett
Brannon, Johnnie R.; Engr-1	Hughes Springs	Berry, Bessie; NE-3	Port Arthur
Brantley, Nelvin J.; A&S-2	Reklaw	Berry, Emmitt Jr.; A&S-2	El Paso
Brantley, Ruby Neal; A&S-1	DeKalb	(2)Berry, Eugene; A&S-1	Dallas
Brashear, Deloris A.; A&S-3	Dallas	Berry, Marion I. A&S-1	Memphis
Bratcher, Edward; A&S-4	Kerrville	Berryman, Ollie Y.; NE-1	Wichita Falls
Bratcher, Willie M.; A&S-3	East Bernard	Best, Ernestine E.; HE-1	Houston
Brazos, Anna Jean; A&S-2	Houston	Bigsby, Lillian L.; A&S-1	Brenham
(1)Brazos, Ida Mae; A&S-1	Houston	Bigsby, Marjorie; A&S-5	Brenham
Breckenridge, Jordan; A&S-3	Jasper	Bigsby, Norma L.; A&S-3	Brenham
Breed, John Willie; A&S-2	Ft. Worth	Biggs, Ferrion; A&S-4	Calvert
Brewer, Mayward M.; A&S-4	Teague	Birks, Onereta Jo; HE-1	Waco
Brewster, Charles W.; HE-1	Winona	Black, Francis M.; A&S-1	Austin
Brewster, Gladys; HE-4	Ft. Worth	Black, Jacquie Sue; A&S-2	Austin
Bridges, Mildred B.; A&S-2	Madisonville	Black, Paynetta; A&S-4	Arpeland
Briggs, Edna Mae; A&S-2	China	Blackburn, Willie A.; A&S-1	Arlington
Brigham, Edethia L.; A&S-4	Greenville	Blackshear, Carolyn J.; A&S-1	Baytown
Briggs, Ervin; Ag-4	Cold Springs	Blair, Elinor L.; A&S-1	Dallas
Brigman, Arnold A.; A&S-3	Atlanta	(1)Blair, Corine; A&S-2	Malakoff
Britt, Jeanie Mae; A&S-1	Kilgore	(2)Blakemore, John L.; A&S-1	Dallas
*Britton, Maceo; A&S-5	Trinity	(2)Bland, Myrtis D.; A&S-1	Texarkana
Broadnax, Betty J.; A&S-1	San Antonio	Blanton, Dorothy Jean; A&S-3	Ft. Worth
Brook, Sadie Mae; A&S-1	Wharton	(2)*Blow, Harold; A&S-1	Paris
Brooks, Alfred; IndEd-1	Dayton	Bluiett, Charlene L.; HE-1	Kirbyville
Brooks, Curtis E.; Engr-1	Lyons	Boatner, Alton L.; A&S-1	Victoria
Brooks, Emory X.; A&S-4	Shreveport, La.	Bobb, Rubye Helen; A&S-2	Port Arthur
Brooks, Frances Mae; A&S-1	Corsicana	Bolden, Opal Jean; A&S-1	Austin
Brooks, Mae Ruth; A&S-4	Odeasa	Bolden, Willie; A&S-4	Houston
Brooks, Ruby J.; HE-3	Tyler	(2)Bolds, Jervie; A&S-1	Fort Worth
Brooks, Sedalia; A&S-1	Tyler	Bolton, Lois W.; A&S-2	Center
*Brotherton, Marvin; Engr-3	Dallas	(2)Bondage, A. J.;	Beaumont
Broussard, Burness; IndEd-3	Port Arthur	Bonner, Barbara L.; NE-1	Austin
Broussard, Melva Ann; A&S-2	Port Arthur	Bonner, Carnell; A&S-4	Atlanta
Brown, Adolphus N.; IndEd-4	Kilgore	(2)Booker, Albert; A&S-1	Beaumont
Brown, Arthur L.; A&S-4	Hillsboro	Booker, Bernice B.; A&S-3	Odeasa
Brown, Bobbie J.; HE-1	Marshall	Booker, Bettie Jean; A&S-2	Columbus
Brown, Buford; A&S-3	James	Booker, Geraldine; A&S-2	Ennis
Brown, Charles L.; A&S-2	Waco	Booker, J. W.; Ag-5	Goesbeck
Brown, Charlie Mae; A&S-3	Rosenburg	Booker, James E.; A&S-1	Ennis
Brown, Erma Lee; A&S-2	Stanton	Booker, Jessie Jr.; A&S-2	Cushing
Brown, Frank G.; Engr-1	Hawkins	(1)*Booker, Luther M.; A&S-3	Houston
(2)Brown, Freddie Marie; A&S-1	Palestine	Booker, Marion; Engr-2	McGregor
Brown, Geneva Earl; A&S-4	Elgin	Boone, Jacqueline; A&S-3	Van Vleck
Brown, J. C., Jr.; A&S-3	Pittsburg	Borders, George H.; A&S-2	Longview
Brown, James P.; A&S-6	Houston	Boskett, Ruby Jean; A&S-1	Palestine
(2)Brown, Irvin Mann; Engr-2	Bay City	Boston, Lucille; A&S-4	Houston
Brown, Margaret; A&S-3	Houston	Boswell, Melba Jean; A&S-1	Beaumont
Brown, Mattie; A&S-4	Giddings	Bouchum, Myrtle; NE-3	Hallsville
Brown, Oliver C.; A&S-1	Hempstead	Boudoin, Maurice; A&S-2	Beaumont
Brown, Onell; IndEd-1	Madisonville	Boulder, Zelma Lee; HE-1	Milano
Brown, Othella M.; A&S-3	San Antonio	Bowden, Elois Elaine; A&S-1	Port Arthur
Brown, Pearlmae; A&S-1	Elgin	Bowens, Gloria D.; A&S-2	Ennis
		Bowers, Carneda A.; A&S-3	Dallas
		(2)Bowers, Evelyn; A&S-4	Dallas

Brown, Roscoe C.; A&S-1	Dayton	Carr, Jackie B.; A&S-4	Houston
*Brown, Samuels; Engr-4	Cameron	Carruthers, Marjorie; A&S-1	Fort Worth
Brown, Selma; A&S-4	Pittsburg	Carreathers, Tommie B.; A&S-3	Denison
Brown, Theatrice; Engr-1	Hillsboro	(1)Carrington, Bettye R.; A&S-3	Houston
Brown, Vela A.; A&S-2	Kendleton	Carrington, Eunice; A&S-2	Dallas
Brown, Vernon E.; A&S-1	Belton	Carroll, Coakey E.; A&S-4	Bryan
*Brown, Virgil L.; Engr-4	Kilgore	*Carroll, Pernell; A&S-1	Richland
Brown, Vivian; A&S-4	Fort Worth	Carruthers, Marjorie; A&S-1	Fort Worth
Brown, Williard G.; A&S-1	Cuero	Carter, Dee Forest; A&S-1	Palacios
Bruce, Geraldine; HE-3	Texarkana	Carter, Maudcan; A&S-2	Fairfield
Bruitt, Ruth E.; A&S-1	Marietta	Carter, Maurice; A&S-Spec	Prairie View
Bruton, Mildred R.; HE-1	Nacogdoches	Carter, Miles S.; A&S-4	San Antonio
(2)Bryant, A. B.; A&S-1	Beaumont	Carter, Ruby Nell; A&S-3	Dallas
Bryant, Conice J.; A&S-3	Gainesville	Carter, Thomas C.; A&S-1	Dallas
Bryant, Elbie C.; A&S-4	Dallas	Cartwright, Georgia; NE-on app	
Bryant, Emmitt L.; A&S-1	Bay City	*Cash, Lloyd Oliver; Engr-1	Houston
Bryant, Joe E. Jr.; A&S-4	Beaumont	Cass, Willie Mae; HE-3	Hemphill
Bryant, Marjorie J.; A&S-4	Fostoria	Castile, Billye Jo A&S-1	Wortham
Bryant, Robin; A&S-1	Longview	Castile, Eddie B.; A&S-2	Wortham
Bryant, Willie Lee; Engr-3	Terrell	Castlow, Tommie L.; A&S-3	Bay City
Buggs, Mary Louise; A&S-4	Longview	Castleberry, Sedalia; A&S-1	Bivins
Buford, Daisy Mae; A&S-1	Napies	*Ceasar, Lestee; A&S-3	El Campo
Bondage, A. J.; A&S-1	Beaumont	Caesar, Otha R.; NE-3	Lane City
(1)Bullard Leo P.; A&S-2	Gause	(1)Christian, Ora Lee M.;	
Burditt, Vera; HE-2	Belton	A&S-4	Rosenberg
Burleson, Kenneth; A&S-2	Dallas	Chambers, Frances Lee; A&S-1	Groesbeck
*Burks, Chester Lee; Engr-4	Palestine	(2)Chambers, Melvin T.; Engr-1	Dallas
Burnham, Faye F.; A&S-3	Newton	Champion, Edith; A&S-1	Greenville
Burns, Dotson Jr.; A&S-2	Fort Worth	(1)Chaison, Ella B.; A&S-2	Beaumont
Burnett, Fred D.; A&S-1	Wichita Falls	(1)Chaple, David; A&S-4	Carthage
Burnett, Freddie Mae; NE-5	Wichita Falls	Cherry, Forrest; A&S-3	Jasper
Burnett, Hill Jr.; Ag-1	Point Blank	Chew, James W.; A&S-2	Bremond
Burnette, Bessie M.; A&S-2	Baytown	Chew, Leonard C.; A&S-1	Waco
Burns, Lillie; HE-6	Houston	Childress, Elijah; HE-2	Ablene
Burrell, Juanita; A&S-4	Fort Worth	Chiles, Lena Mae; A&S-1	Temple
Burrell, Lon C.; A&S-1	Cuney	Chinn, Hamilton; A&S-1	Galveston
Burrell, Theresa J.; A&S-2	Cuney	Chism, Ophelia C.; A&S-2	Dallas
Burton, Abe M.; IndEd-2	Dallas	Choice, Fred Jr.; A&S-1	Henderson
Burton, Howard Jr.; Ag-1	Liberty	Chopp, Martha Jane; A&S-1	Calvert
Burton, Laverne; A&S-2	Temple	Choyce, Lobean; A&S-3	Henderson
Burton, Margaret M.; A&S-1	Paris	Christian, Ora Lee M.;	A&S-4 Rosenberg
Burton, Van Oneal; Ag-4	Easton	(2)Christopher, Evelyn;	
Busby, Billie Jean; A&S-4	Teague	HE-4	Nacogdoches
Busch, Henry L.; Engr-4	Houston	(1)Clark, Mildred; HE-3	Gonzales
Bussey, Jo Ann; A&S-1	Tenaha	(2)Clark, Barbara A.; A&S-1	Luling
Bussey, Mildred; A&S-2	Tenaha	(2)Clark, Betty J.; A&S-1	Beaumont
Butcher, Arthur J.; IndEd-2	Wortham	(1)Clark, Clio; A&S-1	Dallas
Butler, Deloris; HE-1	Lamesa	(2)Clark, Harolyn M.; A&S-4	Dallas
Butler, Douthard R.; A&S-2	Waxahachie	Clark, Ida T.; A&S-1	San Augustine
Butler, Ellena L.; A&S-4	Palestine	Clark, James L.; A&S-1	Fort Worth
Butler, Gwendolyn M.; A&S-4	Denison	Clark, Roosevelt; A&S-1	Austin
Butler, Henrietta; A&S-1	Wichita Falls	Clarke, Margie C.; A&S-2	Galveston
Butler, Horace; IndEd-1	Edna	Clark, William G.; A&S-2	Denton
(2)Butler, Julia Vernice; A&S-3	Galveston	(1)Clarkson, Mary L.; HE-2	Georgetown
*Butler, John A.; Ag-3	Overton	Clay, Earnest T.; A&S-4	Wichita Falls
Butler, Roosevelt; A&S-1	Edna	Clay, Elbert P.; Engr-1	Galveston
Buttrel, Ellen L.; HE-2	Bryan	*Clay, Ketchum; Ind Ed-Spec	Navasota
Bynam, Sawyer L.; Engr-1	Houston	Clay, Marion H.; A&S-3	Wichita Falls
Byrd, Euraline; HE-2	Temple	*Clayborn, Lemuel F.; Ag-4	Pollok
Byrd, James S.; Ag-4	Madisonville	Clayton, Deloris J.; A&S-1	Corsicana
Byrdlon, Joyzelle; A&S-2;	Brazoria	Cobb, Barbara L.; A&S-1	Gilmer
Cabiness, Jonas E.; A&S-1	Waco	Cochran, Dorothy Mae; A&S-2	Shepherd
Cage, Gloria; Ind-Ed-1	Denison	Cohen, Maurine; HE-4	La Marque
*Caldwell Aze; Ag-5	Yoakum	Cole, Charles E.; A&S-1	Arp
Caldwell, Rosezell; A&S-5	Neches	(1)Cole, Daniel; Ag-4	Mexia
Calhoun, Welda Mae; NE-1	Hillsboro	Cole, Juanita L.; Ind Ed-1	Idabel, Okla.
Callahan, Robert L.; A&S-4	Texarkana	Cole, Lorenzo; A&S-1	Caldwell
Callahan, Rogers T.; Ag-2	Texarkana	Coleman, Elta Mae; A&S-2	Beaumont
Callegari, Audrey; A&S-2	Port Arthur	(1)Coleman, Emma A.; A&S-5	Hempstead
Callies, Davetta B.; A&S-2	Houston	Coleman, Eugenia; NE-4 Lake Charles, La.	
Callies, Ruthie Mae; A&S-3	Houston	Coleman, Norma L.; A&S-1	Wharton
Calton, Obie; A&S-1	Smithville	Coleman, Novella M.; A&S-1	Wharton
Campbell, Alma L.; A&S-1	Winona	Coleman, Theresa; 2	Jefferson
Canady, Willie Roy; Ag-3	Teague	(2)Coleman, V. H.; A&S-4	Bellville
Cannon, Auburn; A&S-3	Big Sandy	Coleman, Zelia S.; HE-5	Prairie View
Caraway, W. E.; A&S-1	Tenaha	Collins, Doris M.; A&S-1	Galveston
Carder, Hoover; Ag-3	Fairfield	Collins, Dorothy Mae; HE-1	Port Arthur
Carlton, Johnnie Mae; A&S-1	Leona	(2)Collins, Joe Edward; A&S-3	Ballinger
(2)Carmen, Betty J.; A&S-3	Galveston	Collins, Jole Mae; A&S-4	Conroe
Carpenter, Iola F.; A&S-5	Prairie View	Collins, Joyce; A&S-4	Coolidge
Carr, Charles E.; A&S-1	Houston	*Collins, Limone C.; A&S-5	Gonzales

Collins, Maggie M. ; A&S-4	San Angelo
Collins, Maurice C. ; A&S-1	Mineola
*Collins, Nathaniel ; A&S-2	Naples
*Collins, Samuel ; Ind Ed-Spec	Prairie View
(2)Collins, Williard J. ; A&S-1	Dallas
(2)Colvin, Ollie Mae ; A&S-1	La Marque
(2)Colvin, Verlee ; A&S-1	Ledbetter
Colvin, Yvonne D. ; A&S-2	Bay City
Coney, Dorothy M. ; A&S-2	Beaumont
(1)Conner, Bettye Jean ; A&S-3	Athens
Conner, Billie Jo ; A&S-4	Itasca
Conner, Delois E. ; A&S-1	Brenham
Conner, Doreatha D. ; A&S-2	Port Arthur
Conner, Doris J. ; A&S-4	Columbus
Conner, Morris L. ; Ag-3	Groveton
Conner, Nathaniel ; Ag-2	Weimer
Conner, Roosevelt ; Ind Ed-1	Wharton
Conner, Roosevelt ; Ag-3	Groveton
Cook, Lodema B. ; A&S-1	Geneva
Cook, Rosa Bernice ; A&S-4	Marlin
Cooksey, Vinnie Bell ; A&S-1	Texarkana
Cooper, Bettye Mae ; A&S-2	Beaumont
Cooper, Charles E. ; A&S-1	Berchley
Cooper, Ivory B. ; A&S-1	Houston
(2)Cooper, Katie M. B. ; A&S-4	Houston
Cooper, Ruthie M. B. ; HE-2	McGregor
Cooper, Joyce Lenard ; Engr-1	Howland
(2)Cooper, Ruby L. ; A&S-3	Berchley
Cooper, Winfree ; A&S-1	Crockett
Cormier, Gerald W. ; Engr-2	Port Arthur
(1)Cornelius, Colon ; Ind Ed-1	Waskom
Coruthers, Jane E. ; NE-3	Prairie View
Coss, Roberta ; A&S-2	Plano
Cotton, Betty Jean ; A&S-2	Groesbeck
Cotton, William H. ; A&S-2	Dallas
Coursey, Burnett B. ; A&S-3	Cleburne
(1)Coy, Mary Louise ; A&S-2	Navaro
Craft, Dorothy Mae ; A&S-1	Houston
Craft, Ennis ; A&S-2	Houston
Craft, Ernestine ; HE-2	Port Arthur
Craven, Freddie Lee ; A&S-3	Galveston
Crawford, Barbara ; A&S-1	Cameron
Crawford, Fannie Mae ; A&S-4	Palestine
Crawford, Joan Amy ; A&S-2	Gainesville
Crawford, Joan F. ; A&S-4	Texarkana
Crawford, Leroy ; A&S-2	San Angelo
Crawford, Raymond O. ; A&S-2	Gainesville
(2)Crawford, Zelma ; A&S-4	Chapel Hill
Crayton, Helen M. ; A&S-4	Rockdale
(1)Crayton, Irenza ; Ind Ed 2	Bullard
Crayton, James B. ; Ag-4	Rockdale
Crear, John C. ; Ag-2	Fronston
Crenshaw, Bettye ; Ind Ed-4	Austin
Crenshaw, Celestine ; A&S-3	Kansas City, Kansas
(2)Crenshaw, Ernestine ; (A&S-4	Dale
Crenshaw, Homer L. ; HE-3	Prairie View
Crockett, Mary Evelyn ; A&S-1	Tenaha
Crosby, Lorenza Jr. ; Ag-2	Harlington
Cross, Shirley ; NE-1	Silsbee
Crutcher, Lullaby ; A&S-4	Forney
Cuerington, Iantha ; NE-4	Cameron
Culberson, Ardelia ; NE-Special	Wortham
Culberson, Barbara ; NE-1	Wortham
Culpepper, Faye M. ; NE-3	Houston
Culton, Billie F. ; Ag-2	Normangee
Cunningham, Alice I. ; A&S-4	Goliad
Cunningham, Hendricks ; A&S-2	Buffalo
(2)Cunningham, Johnnie ; A&S-1	Yoakum
Cunningham, Tewonia ; Engr-1	Ft. Worth
(2)Curl, Blandine ; A&S-4	Huntsville
Curtis, Bobby Joe ; Engr-1	Ben Wheeler
Curtis, Dolores M. ; A&S-1	Magnolia
Curtis, Letha M. F. ; A&S-3	Port Arthur
Curtis, Tommy ; Ind Ed-2	Hempstead
Curry, Mary A. ; A&S-1	Fort Worth
Curvey, Dorothy J. ; A&S-3	Houston
Curvey, Maxine ; A&S-4	Grapeland
Dabney, Betty Jo ; A&S-4	Bryan
Dabney, Rufus ; A&S-1	Terrell
Dabney, Stevenson L. ; Ind Ed-3	Timpson
Dailey, James ; A&S-1	Houston
*Dailey, James Sr. ; Ind Ed-Spec	Prairie View
Dancy, Lillie B. M. ; A&S-2	Bay Town
Dancy, Peter C. ; A&S-3	Bay Town
Dancy, Sidney J. ; A&S-4	Bay Town
Daniel, Andrew T. ; A&S-2	Bryan
Daniel, Bernice ; NE-1	Dallas
Daniel, Eva Jean ; A&S-2	Houston
Daniel, Idell ; NE-2	Kennard
Daniel, Antone ; HE-2	Kennard
Daniels, Ella L. ; A&S-3	Panola
Daniels, Ella L. ; A&S-1	Greenville
Daniels, Herbert Lynn ; Ag-4	Marshall
Daniels, Ina Bell ; A&S-1	Dallas
Daniels, Jiles ; Ag-3	Kilgore
(1)Daniels, Johnnie C. ; A&S-5	Overton
Daniels, Perry ; A&S-3	Dallas
Daniels, Ruby ; A&S-1	Panola
(1)Dansby, Demosthenes ; Ag-4	Tyler
Dansby, Kenneth Ray ; Ag-2	Harnson
(2)*Dabney, Stevenson L. ; Dansby, Jimmy B. ; A&S-3	Kilgore
Ind Ed-3	Timpson
Darby, Abner ; Ind Ed-1	Austin
Darby, Lucy Lois ; A&S-3	Houston
Daingerfield, K. K. ; Ag-5	Bryan
Darden, Ernestine ; HE-3	Granger
(1)Darden, Espanola ; A&S-2	Granger
Darden, Melvin ; A&S-3	Galveston
Darden, Odessa ; A&S-4	Barnum
Darnell, Lavera ; A&S-4	Forney
Darrett, Charlesetta ; A&S-3	Sacramento, Calif.
Daughtery, Sammie J. ; A&S-3	Dallas
Davenport, Jessie Lee ; A&S-2	Bryan
David, Doris Lee ; A&S-3	Mexia
Davis, Margaret ; NE-1	Liberty
Davis, Addie Mae ; A&S-4	Liberty
Davis, Agnes Jean ; A&S-3	Beaumont
Davis, Alfreddie ; A&S-3	Nacogdoches
Davis, Bettie Sue ; A&S-3	Atlanta
(1)Davis, Darius M. ; A&S-1	Centerville
Davis, Ella L. ; A&S-1	Egypt
Davis, Essie Mary ; A&S-2	Leona
Davis, Jessie Raye ; HE-3	Leona
Davis, Gwendolyn M. ; A&S-1	Yoakum
Davis, H.E. ; Ind Ed-4	Bryan
Davis, Ira Jean ; A&S-1	Conroe
Davis, Irene ; NE-1	Alto
Davis, Jalonick M. ; Ag-1	Texarkana
Davis, James E. ; A&S-3	Liberty
Davis, John Jr. ; A&S-3	Dallas
Davis, John Jr. ; HE-3	Galveston
(1)Davis, Kathryn ; A&S-2	Dallas
(2)Davis, Lorenza ; Ind Ed-1	Bryan
Davis, Louis E. ; A&S-Spec	Somerville
Davis, Lovie J. ; HE-1	Bryan
(2)Davis, Leamon L. ; A&S-1	Terrell
Davis, Margaret J. ; A&S-1	Conroe
Davis, Mary L. ; A&S-1	Centerville
Davis, Mary Lee ; A&S-1	Centerville
*Davis, Melvin D. ; A&S-3	Houston
Davis, Naomi Lee ; A&S-2	Bryan
Davis, Robert D. ; Ag-4	Karnack
Davis, Opal Jean ; A&S-1	Streetman
Davis, Rosetta J. ; A&S-1	Houston
Davis, Theodore ; Ind Ed-2	Marshall
Davis, Virginia L. ; A&S-2	Quitman
(2)Dawson, Edward ; A&S-2	Waco
Dawson, Erastus ; A&S-3	Sweetwater
Dawson, Harold ; A&S-1	Clarksville
Dawson, Henry T. ; Ind Ed-2	Waco
Dawson, Joe ; Ind Ed-2	Lyons
Dawson, Mavis ; A&S-4	Austin
Dawson, Robert Earl ; A&S-1	Marlin
(1)*Debose, A. C. ; A&S-4	Houston
*Debose, J. B. ; A&S-5	Prairie View
Dedmon, Glenn T. ; Ind Ed-3	Port Worth
Delaney, Narcis L. ; A&S-1	Huntsville
Delece, Walter ; Ag-4	Calvert

Delley, Frank; Engr-4	Herne	Edwards, Calvin J.; Ind Ed-1	Lubbock
Demby, Eloine O.; HE-1	Dallas	Edwards, Davis; A&S-1	Bryan
Demus, Helen Ruth; A&S-1	Mexia	Edwards, Earline; HE-1	China
*Denman, Arthur Lee; A&S-3	Conroe	Edwards, Elvin H.; A&S-2	Elkhart
(2)Denmon, Louis P.; Ind Ed-1	Crockett	Edwards, Frances V.; HE-1	Dallas
Dennis, Frances L.; A&S-1	Fort Worth	Edwards, Myrtle Lee;	
(1)*Dennis, Harry; Ind. Ed-2	Hempstead	A&S-2	San Augustine
Dents, Elizabeth; A&S-4	Georgetown	Edwards, Willie Mae; A&S-4	Thompson
Denwiddie, Helen; HE-2	Detroit	Eldridge, Adonious; HE-4	Brenham
DeRouen, Dudley; A&S-2	Raywood	Eldridge, Dorothy Lorraine;	
DeRouen, Herbert; A&S-1	Raywood	A&S-2	Houston
DeRouen, Milton; A&S-4	Raywood	Eldridge, Dorothy Lean; HE-4	Brenham
DeRouen, Thelma; A&S-4	Raywood	Eleby, Dorothy J.; A&S-3	Onalaska
Derrick, Wanda Jean; A&S-2	Gilmer	(1)*Elgin, James E.; Ind Ed-1	Houston
Derry, Rose Marie; A&S-1	Houston	Elliott, Annie Ruth; A&S-1	Waco
Devall, Jessie J.; A&S-3	Port Arthur	Elliott, Dottie Mae; A&S-3	Hillsboro
Devault, Erma James; A&S-1	Dickerson	Ellis, Roger C.; A&S-1	Houston
Devers, Shedrick T.; A&S-1	Houston	Ellis, Thelma Jean; NE-4	Palestine
Devore, Willie; A&S-1	Anahuac	Ellison, Dorothy J.; A&S-4	Fort Worth
Dial, Estella W.; A&S-1	Palestine	Elmore, Collins; Ag-4	San Jacinto
Dickson, William Ind Ed-5	Pittsburg	Elmore, Martha D.; A&S-4	Cold Springs
Dickson, William Jr.; A&S-4	Waco	Elston, Russell; Engr-1	Dallas
Diggs, Joe Dick; Ag-1	Dallas	Elston, Sylvia M.; A&S-3	Dallas
Dillard, Lenora E.; A&S-2	Brenham	Emanuel, Doris Ann; A&S-3	Dallas
Dixon, Mandy F.; A&S-2	Applespring	Emanuel, Gussie Lee; HE-3	Temple
Dimery, Ernestine; NE-4	Round Rock	Emanuel, Viola Marie; A&S-3	Groveton
Dixon, Helen; NE-4	Paris	English, Charles W.; A&S-1	Marlin
Dixon, Mayme Lois; A&S-3	Ennis	English, Clarence A.; A&S-2	Denison
Dobbins, Annette F.; A&S-2	La Grange	English, Dorothy Mae; A&S-2	Trinity
(2)Donahoe, Douglas; A&S-1	Coldspring	English, Frank T.; A&S-2	Annona
Donatto, Curtis; A&S-1	Liberty	(2)English, Mozell; A&S-1	Trinity
Donley, Cleopatra; A&S-2	San Angelo	Engram, Beatrice; NE-4	Prairie View
Donley, Mary L.; A&S-3	Galveston	Engram, Bettie R.; A&S-4	Lufkin
Donnell, Dorothy Mae; A&S-4	Jacksonville	Epps, Walter; A&S-1	Marshall
Donnell, Lucy Lee; A&S-3	Streetman	Estes, Curtis L.; Ag-1	Houston
Donovan, Arlene; A&S-1	Dime Box	Etter, Grace; A&S-Spec	Rogersville
Dorsey, Goldie Faye; A&S-1	Temple	Eubanks, Delores F.; A&S-2	Beckville
Dorsey, Sandra Lupe; A&S-3	Waco	Evans, Ada Marie; A&S-3	Floydada
Dotson, Gloria S.; A&S-3	Houston	Evans, Charles L.; Ind Ed-2	Bexar
Dotson, Thomas H.; A&S-2	Houston	Evans, Geneva P.; A&S-1	Ennis
Doucette, Doris; A&S-3	Baytown	Evans, Ocie Leen; A&S-3	Dallas
Douglas, Davella; A&S-1	Gause	Evans, Shirley Jean; A&S-1	Pittsburg
Douglas, Dorothy; A&S-3	Gause	Evans, Tony; Ind Ed-1	Port Arthur
Douglas, Eddie J.; Ind Ed-1	Houston	Evans, Tullie R.; A&S-4	Brenham
Douglas, Jettie C.; A&S-2	Waskom	Ewing, Granvel; Ind Ed-1	Austin
Douglas, Mary K.; NE-1	San Antonio	Fagin, James W.; A&S-1	Sherman
Douglas, Perida M.; A&S-4	Shreveport, La.	*Fagin, Norman; Ind Ed-1	Gilmer
Douglass, Bennie J.; A&S-2	Caldwell	Fain, Doris Helen; HE-1	Dallas
Downing, Faye Lee; HE-4	Wichita Falls	Faulkner, Betty Jean; A&S-1	Dallas
Downs, Frankie L.; NE-2	Gilmer	*Fears, Frank; A&S-4	Groveton
Drake, Ayrdbell; NE-1	Dallas	Faulkner, Theola G.; A&S-3	Dallas
Drake, Raymond Earl; Ag-2	Ladonia	Fears, Shirley Mae; A&S-4	Lufkin
Drennan, Clifton; Engr-4	Dallas	Felly, Maye Ella; A&S-4	Navasota
Drennan, Kenneth; A&S-4	Houston	Fields, Attrel D.; Engr-3	Marshall
Drenon, Hermoine; A&S-4	Houston	Fields, Barbara J.; A&S-2	Houston
(2)Drew, Alice M.; A&S-5	Prairie View	Fields, Bernead Rhea; Engr-1	Waskom
Drew, Bobbie N.; A&S-1	Beaumont	Fields, Billie Joe; HE-1	Dallas
(2)Drisdale, Horace L.; A&S-1	West Point	Fields, Billie Ruth; A&S-2	Hearne
Driver, Geneice Ruth; A&S-1	Timpon	Fields, Effie J.; A&S-1	Fort Worth
Dugas, Frank Jr.; A&S-1	Port Arthur	Fields, Frank; A&S-1	Brazoria
Duncan, Don C.; A&S-4	Gilmer	Fields, Jack; A&S-1	Austin
(2)Dukes, Loma B.; A&S-1	San Angelo	Fields, Jesse; Ind Ed-4	Austin
Duncan, Johnny M.; A&S-2	Gilmer	Fields, Mae Ollie; A&S-1	Brazoria
Dunlap, Rubie; A&S-3	Greenville	Fields, Peggy Ann; A&S-2	Denton
Dunn, Calvin C.; Ind Ed-1	Marshall	Fields, Shirley Jean; A&S-1	Dallas
Dupree, Mary Jane; A&S-2	Hempstead	Finney, Hubert C.; A&S-2	El Paso
Duren, Alice E.; A&S-1	Dallas	Fisher, Cleophus; Ind Ed-1	Douglasville
Durgan, Delores; A&S-2	Dickinson	Fisher, Evelyn Irene; A&S-3	Navasota
*Durham, Bobbie Gene; A&S-4	Pampa	Fisher, Franklin C.; Engr-2	Waco
Dyes, Arthur Grant; Ag-4	Punn	Fisher, Hazel M.; NE-1	Houston
Dynes, Massie Rec; HE-4	Houston	Fisher, Johnnie R.; A&S-1	Houston
(1)Earles, Sammie Lee; A&S-3	Galveston	Fisher, Julia Mary; A&S-1	Conroe
Easley, Billie James; A&S-1	Palestine	Fisher, Marjorie L.; A&S-3	Highbank
Easley, Richard; Ag-3	Montgomery	Fisher, Nona L.; A&S-1	Navasota
Eaton Gertie Mae; A&S-4	Lufkin	Fleeks, Edwardlene M.; A&S-3	Texarkana
Edmond, Valrie S. K.; HE-4	Dallas	Flemings, Mary Love; A&S-2	Somerville
Edmonds, Vernon; Ag-4	Smithville	*Flemings, Sallye J.; A&S-3	Calvert
*Edmonson, James; Engr-4	Sherman	*Flewellen, John W.; A&S-3	Terrell
(2)Edwards, Bobbie V.; HE-2	Taylor	Flores, Seceter; A&S-1	Huntsville
Edwards, Constance D.;		Flowers, Annie Jo; A&S-4	Dallas
A&S-3	Nacogdoches	(2)Flowers, Bernard; A&S-3	Dallas

Flowers, Dessie P.; A&S-1	Dallas
Flowers, Earnie Lee; A&S-1	Port Arthur
Flowers, Eloise R.; Ag-4	Clay
Flowers, Helen Marie; A&S-1	Schulenburg
Flowers, Leroy; A&S-2	Port Arthur
Flowers, Roosevelt; Engr-1	Ben Wheeler
Floyd, Leotia; NE-1	Houston
Floyd, Rufus Tom; A&S-3	Cameron
Fluckes, Henry; A&S-1	Paris
Foley, Alfonso, Jr.; A&S-2	Dallas
Fontenot, John; A&S-2	Liberty
Fontenot, Raymond C.; A&S-2	Liberty
Foote, Virginia; NE-3	Galveston
Forbes, Maude J.; A&S-1	Milan
Ford, General Hue; A&S-3	Ore City
Ford, Mary Alice; A&S-4	Fort Worth
Foreman, Dolores M.; HE-4	Fairfield
Foreman, Lovie D.; NE-3	Elkhart
Forkway, George; A&S-2	Abilene
Forrest, Doris E.; NE-1	Houston
Fort, Nelna; A&S-4	Texarkana
Forte, Johnnie; A&S-1	New Boston
Fortson, Elliott B.; Ag-2	Kilgore
Foster, Birdell; A&S-4	Hearne
Foster, Evva Jean; A&S-3	Fort Worth
Foster, Hazel; NE-4	Hitchcock
(2)Foston, Viola E.; A&S-1	Houston
Fowlks, Essex; A&S-2	Terrell
Fowlks, Joyce Faye; HE-1	Terrell
Francis, Howard E.; A&S-3	Jacksonville
Francis, Lucille J.; A&S-3	Jacksonville
Frank, Bobbie Jean; A&S-1	Beaumont
Franklin, Audrey; A&S-4	Dallas
Franklin, Benjamin; Engr-1	Denton
Franklin, Bernadette; A&S-1	Port Arthur
Franklin, Ernestine; A&S-2	Houston
Franklin, Ira B.; Ag-4	Conroe
Franklin, Jerelene; HE-1	Lyons
Franklin, Jo Nell; A&S-3	Rosser
Franklin, Margaret E.;	
Ind Ed-1	Ardmore, Okla.
Franklin, Ora Lee; NE-1	Lyons
Franklin, Ruth E.; HE-1	Lyons
Franklin, Thomas J.; A&S-2	Conroe
Franks, William J.; A&S-1	Athens
Frazier, Harrison, Jr.; Engr-1	Zavalla
Frazier, Verna Lee; A&S-1	Marshall
Freeman, Aubrey Lee; Ind Ed-1	Camden
Freeman, Dora Bell; A&S-3	Dallas
Freeman, Doris J.; A&S-1	Denison
Freeman, John R.; A&S-4	Dallas
Freeman, Marcus A.; A&S-2	Brownwood
Freeman, Myrtle Lean; A&S-2	Cameron
Freeman, Sydney E.; A&S-1	Camden
Freeman, Theodore R.; Ag-4	Camden
Freeman, William H.; A&S-1	Palestine
French, Irene; HE-1	Luling
Friday, Dorothy B.; A&S-3	Seguin
Friday, Phay E.; A&S-3	Abilene
Frierson, Bettye; HE-2	Dallas
Fry, Irene Laverne; A&S-2	Prairie View
Fry, Eleanor; HE-4	Prairie View
Frye, Hester Mae; A&S-3	Jacksonville
Frye, Vivian; HE-4	Greenville
(2)Fryer, Frank R.; A&S-2	Gonzales
Frye, Lawrence; Ag-3	Gonzales
Fucuals, Walter Lee; A&S-4	Corpus Christi
Fulbright, Donald C.; A&S-3	Paris
Fuller, Barbara J.; A&S-1	Dallas
*Fulton, Adolph; A&S-1	Houston
Gabriel, Blanche Lee; A&S-4	Fairfield
Gabriel, Burnis; Engr-4	Fairfield
Gaines, Harrison D.; A&S-1	Hearne
Gaines, Loretta M.; A&S-3	Mt. Pleasant
(1)*Gaines, Wayne M.; A&S-3	Texarkana
Gamble, Janie C.; HE-4	Omaha
Gamble, Calvin G.; Engr-2	San Augustine
(1)Gamble, Evelyn L.; HE-4	Galveston
Gant, Ella R.; HE-4	Lubbock
(2)Garcia, Marion; A&S-4	Rosenberg
Gardner, Carolyn J.; A&S-3	Cleburne
Gardner, Charles T.; Engr-1	Decatur
*Gardner, Jesse H.; A&S-4	Terrell
Gardner, Carolyn June; A&S-3	Cleburne
Gardner, Charles T.; Engr-1	Wise
Garner, Elijah; Ag-1	Nacadoches
Garner, Samuel; A&S-4	San Augustine
Garnett, Lindsay; A&S-2	Temple
Garnett, Robert H.; Engr-1	Fort Worth
Garrett, Alice; A&S-3	Malakoff
Garrett, Bernice; HE-4	Ft. Hood
Garrett, Dortha L.; A&S-4	Bonham
Garrett, James; A&S-3	Jouquin
Garrett, Myrtle; HE-5	Prairie View
Gaston, Johnnie M.; A&S-1	Stoneman
(1)Gates, Johnnie Jr.; A&S-1	Carthage
Gates, Henry A.; Ag-3	Garrison
*Gay, Melvin Sr.; A&S-1	La Porte
Gee, Samuel H.; A&S-2	Bay City
Gete, Claressa D.; NE-1	Longview
Gibbs, Leon; A&S-4	Beaumont
Gerard, Grace; HE-2	Beaumont
Gibson, Bobbie G.; A&S-4	Calvert
Gibson, Hazel M.; A&S-1	Texarkana
Gibson, Marie C.; A&S-4	Texarkana
*Gibson, Roscoe; A&S-4	West Columbia
Gibson, Trolius; A&S-4	Calvert
Gidding, Emma Mae; HE-4	Hillbon
Giddings, Leathia A.; A&S-1	High Bank
Gilbert, Linnie R.; A&S-3	Coleman
Gilbert, Worthing T.; Engr-1	Midland
Gilcrease, Cleveland; Ag-1	Columbus
*Gilcrease, Hordert; T-2	Columbus
Gilder, Maureen; A&S-3	Colmesneil
Giles, Gracie Bell; A&S-1	Texas City
*Giles, Pressely; Ag-1	Yoakum
Gilford, Audrey Jean; A&S-3	Trinity
Gilliam, Leola; A&S-4	Kilgore
Gillins, June E.; A&S-4	Dallas
Gillins, Leroy; A&S-2	Dallas
Gillum, Georgia; HE-4	Hempstead
Gilmore, Drucilla; A&S-1	Bryan
Gilmore, Harrison; Engr-3	Bryan
(2)Gilmore, Erma J.; A&S-1	Fort Worth
Gilmore, Joe L.; A&S-2	Oakwood
Gilmore, Zelma M.; A&S-2	Oakwood
Gilstrap, Noble; Ind Ed-1	Greenville
Gipson, Doctor S.; Ind Ed-3	Camden
Gipson, Fayrene; A&S-3	Forney
(2)Gipson, Edith; NE-4	El Campo
Gipson, Vassie B.; A&S-3	Dallas
*Gipson, Willie; A&S-4	Corpus Christi
*Givens, Clay; Ind Ed-1	Athens
Givens, James W.; Engr-1	Lubbock
Givens, Lavaughn; NE-1	Austin
Givens, Milton; A&S-1	Arlington
Glasco, Richard A.; Engr-2	San Antonio
Glass, John Henry; A&S-2	Schulenburg
Glenn, Leon; Engr-4	Glidden
Godine, Bernice; A&S-2	Bryan
Godine, Jewel Lee; A&S-4	Bryan
Godine, Ruby B.; A&S-4	Bryan
Golston, Billy R.; A&S-1	Denison
Gooden, Lamar; Engr.	Madisonville
Goodacre, Christine; A&S-5	Tyler
Gooden, Willie C.; A&S-3	Clarksville
Goodman, Roland A.; A&S-2	Beaumont
Goodspeed, Robert A.; Engr.	Fort Worth
Gordan, Josephine; A&S-4	Wharton
(1)Goree, Jeanne; A&S-1	Carthage
(2)Gosey, Lewis E.; Ind Ed 4	Houston
(1)Gosey, Norene E.; A&S-3	Bon Weir
Goss, James Rex; A&S-2	Tyler
Goudeau, Hardiman; Ind Ed-1	Crosby
Grace, Learline G.; NE-1	Newton
Grant, Dorothy J. G.; A&S-4	Wichita Falls
Grant, Gloria; NE-4	Galveston
(2)Grant, Michael A.; A&S-1	Ft. Worth
Grant, Ruby J.; A&S-2	Dallas
(2)Graves, Lucille A&S-3	Independence
(2)Graves, Willie C.; Ag-1	Houston
Gray, Clothus Bruce; A&S-2	Dallas

- Gray, Claudell L.; NE-1 Longview
 Gray, Troy; A&S-1 Cushing
 Gray, Walter James; A&S-1 Tyler
 Grayson, Lillie Mae; A&S-2 Jewett
 Green, Hazel V.; A&S-4 Fort Worth
 Green, Jarill Ann; NE-1 Galveston
 *Green, Jobe; A&S-1 Waller
 Green, Lena Mae; A&S-2 Normangee
 Green, Myrtle J.; A&S-3 Galveston
 Green Roger Dell; T-2 San Antonio
 Greene, Clarence; A&S-1 Paris
 Greene, Clarice L.; A&S-4 Paris
 Greene, Jessie L.; A&S-3 Wiemar
 Greene, Patricia Ann; A&S-1 Refugio
 Greene, Robert Leon; Ag-2 Kerens
 Greenleaf, Douglas L.; A&S-2 Coldsprings
 Gregg, Frankie; A&S-2 Huntsville
 Gregory, George; Ag-4 Hempstead
 Griffin, Bobbie J.; A&S-4 Jacksonville
 Griffin, Catherine; A&S-2 Ganado
 Griffin, Floyd L.; A&S-4 Texarkana
 Grimes, James C.; A&S-1 Silsbee
 Griffin, Walter; A&S-3 Houston
 Griggs, Peggie Sue; A&S-2 Plano
 Griggs, Rose Mary; A&S-2 Hallestsville
 *Griggs, James E.; Ind Ed-4 Prairie View
 Griggs, Willie E.; A&S-2 Fort Worth
 (2) Guinn, Oscar; Ag-4 Jefferson
 Grisby, Carl; A&S-4 Jefferson
 (2) Grimes, Charles T.;
 (2) Grimes, James C.; A&S-1 Silsbee
 Grismore, Dorothy; A&S-1 Dallas
 Gross, Kathryn J.; A&S-2 Palestine
 Grover, Ernest J.; A&S-4 Huntsville
 Grover, Theodore; T-2 Huntsville
 Guice, Joyce E.; A&S-4 Navasota
 Guidry, Joseph; A&S-1 Beaumont
 Hadnot, Iva Jean; HE-3 Woodville
 Hailey, Frances E.; A&S-2 Houston
 Hale, Ella Virginia; A&S-1 Gilmer
 Hale, Dolores F.; A&S-3 Hearne
 Haliburton, Albert G.; Engr-1 West
 (2) *Hall, Arthur Leon; A&S-1 Waco
 Hall, Barbara Jean; A&S-1 Houston
 Hall, Beedie Mozelle; A&S-2 Malakoff
 Hall, Billy Ross; Ag-2 Houston
 Hall, Burnis L.; A&S-3 Navasota
 Hall, Calvin B.; T-2 Dallas
 Hall, Claudia Faye; A&S-1 Mt. Enterprise
 Hall, Delores; A&S-1 Beaumont
 Hall, Elroy; A&S-3 Slaton
 Hall, Ethredge; A&S-3 Wichita Falls
 Hall, Gladys Marie; A&S-2 Oakhurst
 Hall, Harold M.; A&S-4 Austin
 Hall, Holmes G.; A&S-4 Hawkins
 Hall, Mary Hester; A&S-2 Bryan
 (2) Hall, Queen Ester; A&S-1 Lovelady
 Hall, Robert Louis; A&S-2 Waco
 Hall, Vashti; A&S-2 Malakoff
 Hall, Vera Mae; HE-1 Waco
 Hallman, Rudolph; Ind Ed-1 Ben Wheeler
 (1) Hamilton, Bobbye J.; A&S-2 Waco
 Hamilton, Hazel L.; A&S-1 Hemphill
 Hamilton, Jessie C.; A&S-3 Pittsburg
 (2) *Hamilton, Hilton; A&S-3 Pittsburg
 Hamilton, John A.; A&S-1 Dallas
 Hamilton, Katherine; A&S-2 Houston
 Hamilton, Lena Mae; HE-2 Texarkana
 Hamilton, Martha Ann; A&S-1 Dallas
 Hamilton, Mollie F.; A&S-1 Texarkana
 Hamilton, Solomon; A&S-2 Spring
 Hamm, Purvis T. Jr.;
 A&S-1 New Braunfels, Conn.
 Hammond, Aubrey Jay; Engr-1 Dallas
 Hancock, Chester; A&S-4 Mineola
 (1) Hammond, Loris; Ag-2 Calvert
 Hancock, Timothy L.; A&S-1 Mineola
 Hansford, Willie H.; A&S-2 Fort Worth
 Hanson, Sarah B.; NE-1 Dallas
 Hardaway, Purvis; A&S-1 Seguin
 Hardaway, Thomas; Ind Ed-2 Galveston
 Hardeman, Elbert; A&S-Spec Prairie View
 Harden, Norvel; HE-2 Chererro
 Hardrick, Doris Mae; A&S-2 San Antonio
 Hardy, Be Etta; A&S-4 China
 Hardy, Golden Jr.; A&S-1 China
 Hardy, Richard, S.; T-1 China
 Hargo, Sylvester; A&S-1 Houston
 Harkless, Germalene; HE-3 Cedar Lane
 Harmon, Linzel; A&S-4 Paris
 Harmon, Marcellus F.;
 A&S-Spec Prairie View
 (1) Harmon, Ruth; A&S-2 Prairie View
 Harnsberry, Hezekiah; A&S-2 Bryan
 Harnsberry, Johnnie; A&S-4 Bryan
 Harnsberry, William; Ag-1 Bryan
 (2) Harper, Annie; A&S-4 Bremond
 Harper, David; A&S-2 Beaumont
 Harper, Emory Jr.; Ag-2 Henderson
 Harris, Calvin Jr.; A&S-2 Dallas
 Harris, Cornelius; A&S-3 Galveston
 Harris, Cullen N.; Ag-1 Waco
 Harris, Ethel Arnette; HE-3 Rosenberg
 Harris, Garland; Engr-1 Kingsburg
 Harris, Lillian M.; A&S-1 West Columbia
 (1) Harris, John Paul; Ag-4 Jefferson
 Harris, Loston; A&S-2 Port Arthur
 Harris, Maurice E.; HE-1 Waco
 (2) Harris, Norma J.; A&S-4 Italie
 Harris, Minnie L.; A&S-3 Gray
 Harris, Willia Belle; A&S-1 Baytown
 Harrison, Eddie Earl; A&S-4 Tyler
 Harrison, Elmer L.; A&S-4 Houston
 Harrison, Harveta; A&S-1 Beaumont
 Harrison, Oliver W.; A&S-2 Beaumont
 Harrison, Richard B.;
 Engr-1 St. Louis, Mo.
 Harrison, Willie Rene; A&S-1 Houston
 Hart, Myrna L.; NE-1 Gilmer
 Hartley, Ocie Lee; A&S-1 Calvert
 Hartfield, Travis; Engr-1 Hughes Springs
 Harvey, Doris E.; A&S-3 Taylor
 Harvey, Freddie Mae; A&S-1 Victoria
 Harvey, Julia M.; A&S-3 Bellville
 Hatchett, Timothy; A&S-1 Montgomery
 *Hauntz, Adolph A.; A&S-1 Houston
 Hauntz, Regent; A&S-3 Houston
 Hawkins, Symbolia L.; A&S-1 Galveston
 *Hawley, Mary Ann; HE-3 Gladewater
 Hayes, Alva C.; A&S-2 Houston
 Haynes, Berna Faye; A&S-4 Jewett
 Haynes, Bernice; NE-1 Prairie View
 Haynes, Eva M.; A&S-2 Dallas
 Haynes, Stanley; T-2 San Antonio
 Haynes, Virginia L.; A&S-3 Texarkana
 Haywood, Charles; A&S-3 San Angelo
 Haywood, Ruby Gage; A&S-1 Hempstead
 Heard, Ester M.; A&S-3 Beaumont
 *Heard, Vance L.; A&S-4 Prairie View
 Hebert, Norma; A&S-2 Port Arthur
 Heggins, Carver D.; A&S-2 Teague
 Hemphill, Emeola; NE-1 San Antonio
 Hemphill, Ruby L.; A&S-3 Mexia
 Henderson, Clarence; A&S-1 Sherman
 Henderson, Dorothy; HE-2 Lorena
 Henderson, Eugene; Ind Ed-2 Marietta
 Henderson, Gladys M.; A&S-2 Terrell
 Henderson, Gloria Mae;
 A&S-3 Port Arthur
 Henderson, Jean M.; A&S-2 Hearne
 Henderson, Johnnie L.; A&S-4 Houston
 Henderson, Johnnie R.;
 A&S-3 Port Arthur
 Henderson, Leon; Ag-4 Marshall
 Henderson, Martha J.; A&S-4 Itasca
 Henderson, Mattie; A&S-1 Ellis
 *Henderson, Raymond E.;
 Engr-5 Prairie View
 (2) Henderson, Sam Ella;
 A&S-3 San Antonio
 Henderson, Thelma V.; NE-1 Marshall
 Henderson, Thomas A&S-1 Kilgore

- Henderson, Tommye D.; A&S-4 Smithville
Henderson, Van B. S.; Ag-5...Prairie View
Hendricks, Doris Jean; A&S-1Hearne
Henry, Edith; NE-SpecGeorgetown
(2)Henry, Louis; A&S-3Weimar
Henry, Morgan Jean; NE-1Conroe
Henry, Ross H.; A&S-2Weimar
Henson, Verne R.; A&S-3Overton
*Henry, Willie; Ind Ed-3Hempstead
Henry, Wilson W.; Ag-2Oakwood
Herdon, Ruth L.; A&S-3Wharton
Herod, Loyce E.; A&S-2Denton
Hervey, Christine; HE-2Dallas
Hester, Esther E.; NE-1Brownwood
Hicks, Clarence R.; A&S-1Teague
(2)*Hicks, Lee A.; Ag-3Gladewater
Hicks, Earline P.; A&S-2Waco
(2)Hicks, Mary Ann; HE-3Italy
(2)*Higgs, Georgia E.; A&S-1Ladonia
Hightower, Almetta; Ind Ed-4 Beaumont
Hightower, Vastine W.; A&S-1 Houston
*Hill, Booker T.; Ag-5Henderson
Hill, Daisy Lee; Ind Ed-1Lufkin
Hill, Edward V.; Ag-2Seguin
Hill, Elmer E.; Ag-5Henderson
Hill, J. I. Jr.; A&S-3Mt. Enterprise
Hill, Joseph; A&S-4Fort Worth
Hill, Marcy Jo; A&S-2Fort Worth
Hill, Prince; Engr-2Austin
(2)Hill, Offria Lee; A&S-4Naples
Hill, Samuel; A&S-3Hankamer
Hill, Wynell; A&S-2Beaumont
Hines, Barbara O.; A&S-1Corsicana
Hobbs, Willie R.; Engr-1Fort Worth
Hitchins, Bennie D.; A&S-1Dayton
Hodge, Del Dolores; A&S-2Terrell
*Hodge, Louis J.; A&S-3Silsbee
(2)Hodges, Martha W.; A&S-2Coolidge
Hodge, Willie B.; T-1Lodi
Hodges, William; A&S-4Houston
Hodrick, Ollie V.; A&S-2Caldwell
Hogan, Pooker T. Jr.; A&S-1Brenham
Hogg, Jim F.; Ag-2Laneville
Hogg, Ruby Lene; A&S-2Reklaw
Holden, Floyd T.; A&S-1Onalaska
Holland, Dannie Mae; NE-1Port Arthur
Hollie, Johnnie Ruth A&S-2Dallas
Holly, Ezell; Ag-4Naples
Holloway, Alaphy L.; A&S-4 Normangee
(2)Holloway, Alma M.; HE-4Houston
Holloway, Barbara J.; A&S-1Crockett
(2)Holloway, Cleotis B.;
A&S-5Prairie View
Holloway, Effie A.; A&S-4Beaumont
Holt, Raymond L.; Engr-3Kilgore
Hooks, Catherine; A&S-1New Boston
Hooks, Wilma Ruth; A&S-3Texarkana
Hooper, Margie Leen; HE-3Timpson
Hopkins, Elgar; A&S-1Centerville
Hopkins, George H.; A&S-2Beeville
Hopkins, Nadine A.; A&S-1Tyler
Hopkins, Temple; A&S-2Dallas
Horace, Dottie M.; A&S-5Groveton
Horne, Ruby Lynn; A&S-1Fl. Bliss
Houston, Annie M.; A&S-1Hempstead
Houston, Doris J.; A&S-1Coldspring
(1)Houston, Gloria R.; A&S-1Houston
Houston, Joe E.; A&S-2Crockett
Houston, John E.; Engr-3Austin
Houston, Marvin; A&S-1Wood Lake
Houston, Mary A.; A&S-1Greenville
Howard, Billy; A&S-2Waco
Howard, Charlie Mae; A&S-2Dallas
Howard, George J.; A&S-4Galveston
Howard, Louis H.; Ag-4Conroe
Hubbard, Annie L.; A&S-1Houston
Hubbard Audrey; HE-2Houston
Hubbard, Joe Davis; HE-2Hooks
Hubbard, Mozerine; HE-3Groveton
Hubert, Calvin; A&S-1Brenham
Huckaby, Henry L.; A&S-1Houston
Hudson, Cecil; A&S-2El Paso
Hudson, Elgie; A&S-2San Angelo
Hudson, Harold; A&S-4Carthage
Hudson, Ray; A&S-2San Angelo
Hudson, Roy; A&S-2San Angelo
(2)Hughes, Jimmie J.; A&S-1Ennis
Hughes, Canary Lee; A&S-4Texarkana
*Hull, Emory Earl; Engr-2Richards
Humber, Robert; A&S-1Cameron
*Humphrey, Al C.; Ag-2Lubbock
Humphrey, Melvin; Ag-2Brookshire
Hunt, Kenneth D.; A&S-1San Augustine
Hunt, Margie Nell; NE-1Houston
Hunt, Maureen; HE-3Palestine
Hunter, Barbara C.; A&S-1Port Worth
Hunter, Donald Lee; A&S-3Cameron
Hunter, Geneva D.; NE-3Houston
Hunter, Jewel F.; A&S-4San Antonio
Hunter, Joyce A.; A&S-1Galveston
Hunter, Myrtle Lee; A&S-2Palestine
Hunter, Raymond E.; Ind Ed-1 Ft. Worth
Hurst, Muriel M.; A&S-1Houston
Hurd, Allan M.; HE-3Beasley
Hyner, Harry Lee; A&S-1Forney
Hutchins, Mary R.; HE-4Longview
Hysaw, Virginia N.; HE-1Luling
Ingram, Cleopatra; A&S-1Panola
Ingram, Lenora N.; NE-3Palestine
Ingram, Mary Lois; A&S-3Tyler
Irving, Doris Rose; A&S-1Madisonville
*Jackson, Adolphe; Ag-5San Antonio
(2)Jackson, Anthony L.;
A&S-1San Marcos
Jackson, Alean L.; A&S-1Naples
Jackson, Barbara J.; HE-1Houston
Jackson, Clarence A.; A&S-4Beaumont
Jackson, Coretha; A&S-4Hempstead
Jackson, Cynthia; A&S-4Bryan
Jackson, Donald R.; A&S-3Bay City
Jackson, Doris Jean; A&S-2Tyler
Jackson, Dorothy A.; A&S-2Linden
Jackson, Dorothy M.; A&S-2Houston
Jackson, Earl C.; Engr-2Baytown
Jackson, Freddie L.; Ind Ed-1 Lufkin
Jackson, Gladys F.; A&S-1Livingston
Jackson, Gladys J.;
A&S-3Hobbs, New Mexico
Jackson, Hattie V.; A&S-2Lufkin
Jackson, Hazel L.; A&S-2Schulenburg
Jackson, Henry W.; Ind Ed-1El Paso
Jackson, Jimmie Lee; A&S-3 Waxahachie
*Jackson, Joseph; Ind Ed-2Brenham
Jackson, Joyce E.; A&S-2Bay City
Jackson, Laverne; A&S-1Denton
Jackson, Lela Mae; A&S-2Denton
Jackson, Louis Jr.; A&S-1Houston
Jackson, Mary Lee; NE-1Hempstead
Jackson, Naomi Lee; HE-1Lincoln
Jackson, Pearl J.; A&S-2Plano
Jackson, Pheebia; HE-1Marietta
Jackson, Robert F.; A&S-2McKinney
(2)*Jackson, Roosevelt;
A&S-1Mineral Wells
Jackson, Ural A.; A&S-1Caldwell
Jackson, Wardell S.; A&S-2Tyler
Jackson, Willie B.; A&S-4Rosanky
Jackson, Wilma Jean; A&S-4Bay City
Jackson, Zenobia C.; A&S-1Oakwood
James, Annie V.; A&S-4Waelder
James, Audria E.; A&S-2Houston
James, Dorothy Lee; A&S-1Smithville
James, Ella M.; A&S-1Conroe
James, Dorothy M.; HE-2Waelder
James, John Alfred; A&S-3Dallas
James, Joy T.; A&S-2Marshall
James, Joy Faye; A&S-2Marshall
James, Juanita; A&S-3Woodville

James, Leonard M.; A&S-1	Yoakum	Johnson, Myrtle Lee; NE-1	Houston
James, Melton Earl;		Johnson, Nathaniel; Ag-4	Queen City
Ind Ed-1	College Station	Johnson, Nancy Jo; HE-1	McKinney
James, Minnie B.; A&S-4	Houston	Johnson, Nona L.; A&S-1	Waco
James, Sylvester; Ag-2	Daingerfield	Johnson, Norma Lee; A&S-3	Beaumont
Jamerson, Prudie; A&S-3	Brenham	(2)Johnson, Norma R.; A&S-1	Galveston
Jarmon, Elwin; Ag-4	Schulenburg	Johnson, Opal G.; A&S-3	Corrigan
*Jarmon, Ferdinand; Ind Ed-2	La Grange	Johnson, Oscar Lee; A&S-2	Omaha
Jarmon, George; Ind Ed-1	Abilene	Johnson, Ray Dell; A&S-1	Sweetwater
Jarmon, Novella M.; A&S-2	La Grange	Johnson, Robbie L.; A&S-5	Prairie View
Jarmon, Ruben C.; A&S-2	Waelder	Johnson, Robert L.; Ag-2	Seguin
Jasper, Thomasine; A&S-1	LaMargue	Johnson, Rose Marie; A&S-3	Marietta
Jeffero, Algranon; Ag-1	Huntsville	Johnson, Ruby Lene; A&S-1	Denton
Jeffero, Deloris M.; HE-	Huntsville	Johnson, Rhuzell; HE-3	Avinger
Jefferson, Annie E.; A&S-3	Camden	(2)Johnson, Travis J.; Engr-1	Dallas
Jefferson, Calvin A.; Ag-3	Calvert	Johnson, Scott M.; Ind Ed-1	Quitman
Jefferson, Geraldine; A&S-3	Dallas	Johnson, Velma Marie; A&S-2	Glenflora
Jefferson, Joe W.; A&S-1	Athens	Johnson, Walter E.; A&S-4	Dallas
Jefferson, Nova C.; HE-5	San Antonio	Johnson, Vernice L.; A&S-4	Belton
Jeffrey, Frank J.; Engr-1	Troup	Johnson, Walter F.; A&S-4	San Angelo
Jeffries, Lillian M.; A&S-3	Dallas	*Johnson, William; A&S-3	Lubbock
(2)Jenkins, Jimmy D.; A&S-4	Overton	Jones, Annie J.; A&S-1	Winnbrook
Jennings, Doris Faye; Ind Ed-2	Hearne	Johnson, Willie L.; Engr-4	Fairfield
Jennings, Doris Faye; Ind Ed-2	Hearne	Jones, Birdie; HE-5	Mertens
Jernigan, Claudy; A&S-2	Tatum	Jones, Carmenia; A&S-1	Longview
(2)*Jernigan, Forest; A&S-4	Tatum	Jones, Charles D.; A&S-2	Bryan
Jernigan Mary Helen; A&S-1	Ballinger	Jones, Clara V.; HE-4	Overton
Jessie, Jimmie Ruth; A&S-1	Athens	Jones, Clariene; NE-3	Eagle Lake
Jeter, Freddie L.; A&S-1	Mexia	*Jones, Claude D.; Ag-2	Tyler
Jiles, Wanda Marie; A&S-2	Troup	Jones, Clyde E.; Ag-4	Tyler
Jimerson, Horace J.; A&S-1	Fort Worth	Jones, Curtis F. Jr.; A&S-1	Overton
Johnican, Earnell; NE-3	Houston	Jones, Dorothy M.; NE-1	Longview
Johns, Dorothy L.; HE-1	Waco	Jones, Dorothy Raye; A&S-1	Jasper
Johns, Jack A.; A&S-3	San Marcos	Jones, Earnest; Ind Ed-1	Vernon
Johnson, Alice A&S-1	Barnum	Jones, Edward C.; Engr-2	Houston
Johnson, Alvin; A&S-1	Ballinger	Jones, Emma D.; A&S-2	Denton
Johnson, Andre V.; NE-1	Dallas	Jones, Ethel Lillian; A&S-2	Bryan
Johnson, Anna Mildred; A&S-1	Gary	Jones, Frank L.; A&S-1	Gonzales
Johnson, Barbara L.; A&S-1	Prairie View	Jones, Gwendolyn C.; A&S-1	Columbus
Johnson, Bertha; HE-4	Houston	Jones, Helen E.; A&S-2	Houston
Johnson, Bonnie E.; A&S-1	Oakwood	Jones, Helen Jean; A&S-1	Calvert
Johnson, Bunyan; A&S-1	Mexia	Jones, Henry; Engr-2	Midland
*Johnson, Byron; A&S-1	Beaumont	(2)Jones, Ida E.; A&S-5	Yoakum
Johnson, Cerestra; A&S-1	Cushing	Jones, Jesse Clarence; A&S-2	Orange
Johnson, Charles E.; Engr-3	Mexia	Jones, Jo Ann; A&S-4	Mt. Pleasant
Johnson, Chas. Edwin; A&S-1	Terrell	Jones, John Garrett; Ind Ed-1	Austin
Johnson, Clyde C.; A&S-2	Ft. Worth	Jones, Josephine F.; A&S-3	Navasota
*Johnson, Daniel L.; A&S-4	Denton	Jones, Juan T.; A&S-1	Duncan
Johnson, Delores V.; A&S-2	Oakwood	(2)Jones, Julius; A&S-Spec	Prairie View
Johnson, Doris Lee; A&S-2	Houston	Jones, Kay Frances; A&S-3	Dallas
Johnson, Earl; A&S-1	Houston	Jones, Lizzie L.; A&S-4	Longview
Johnson, Edward S.; A&S-2	Beaumont	Jones, Lola M. Mickle; A&S-4	Houston
Johnson, Florence M.; Ind Ed-4	Brazoria	Jones, Mattie Pearl; A&S-1	Bryan
Johnson, Frederick I.; A&S-1	Teague	Jones, Opal Lee; A&S-1	Conroe
Johnson, Frio; A&S-1	Gainsville	Jones, Oressia T.; A&S-4	Oakwood
Johnson, George W.; A&S-4	Cameron	Jones, Otis; Ind Ed-4	Overton
Johnson, Gloria Fay; A&S-1	Mexia	Jones, Peraley; A&S-1	Camden
Johnson, Gloria Rai; A&S-4	Dallas	Jones, Pauline; HE-4	Midway
Johnson, Gloria Y.; A&S-2	Pittsburg	Jones, Roosevelt J.; A&S-4	Hawkins
(2)Johnson, Isaac; Ag-3	Jefferson	Jones, Roosevelt; Engr-1	Marshall
Johnson, Jackie J. W.;		Jones, Ruby; HE-4	Bryan
A&S-4	San Antonio	Jones, Ruby Nell; A&S-2	Clarksville
Johnson, Jake; Ag-3	Crockett	Jones, Rufus; Ag-1	Utley
Johnson, James E.; A&S-4	Longview	*Jones, Robert; A&S-3	Longbranch
Johnson, Jearlene; A&S-1	Gause	Jones, Sherry A.; A&S-2	Overton
Johnson, Jo M.; Ag-1	Huntington	Jones, Twyla Jo; Ind Ed T-1	Beckville
Johnson, Joyce M.; A&S-2	Mexia	Jones, Wanda; NE-1	Gilmer
Johnson, Lela Mae; NE-1	Angleton	Jones, Willie Faye; HE-4	Kernes
Johnson, Leola Van; A&S-2	Egypt	Jones, Willie Vivian; A&S-2	Dallas
Johnson, Leonard J.; A&S-3	Gary	*Jordan, Alhonso Marus;	
Johnson, Lorenzo W.; A&S-1	Oakwood	Ind Ed-4	Fort Worth
Johnson, Lotrece; A&S-1	Greenville	Jordan, Belva June; A&S-1	Temple
Johnson, Louis E.; A&S-1	Austin	Jordan, Cleophus D.; A&S-3	Houston
Johnson, Luther A.; A&S-1	Calvert	Jordan, Rosie; A&S-4	Houston
Johnson, Mae Pearl; A&S-2	Ft. Worth	Jordan, James T.; A&S-4	Houston
Johnson, Malvin; A&S-1	Ballinger	Jordan, Sarah H.; HE-4	Houston
Johnson, Marion Jr.; A&S-1	Waco	(2)Jordan, Otris; Ind Ed-4	San Antonio
Johnson, Maude M.; A&S-3	Gause	Jordan, Rose M.; A&S-4	Beaumont
Johnson, Maudie O.; A&S-5	Arp	Joseph, Edna; A&S-4	Beaumont
(2)Johnson, Moses; A&S-1	Brenham	Joyce, George A&S-2	Carthage
Johnson, Myrtle F.; A&S-3	Temple	Joyce, Estella M.; A&S-3	Liberty

Justice, Evelyn J.; A&S-2	Houston	(2)Lewis, Burnice; T-1	Texarkana
Justice, Irving; A&S-1	Houston	Lewis, Cleveland; A&S-3	Clarksville
Kahn, Evelyn B.; HE-2	Longview	Lewis, Clever D.; Ag-4	Burkeville
Kearney, Estella; A&S-3	Galveston	Lewis, Ernest S.; A&S-2	Fort Worth
Keanon, Harold; A&S-2	Dallas	Lewis, Horace A.; A&S-2	Anahuac
(2)Keller, Julia B.; A&S-5	Fort Worth	(2)Lewis, Edna Mae; A&S-4	Burkeville
Kelly, Andrew; A&S-4	Galveston	Lewis, John Ella; A&S-4	Katy
Kelly, Annie L.; A&S-1	Fort Worth	Lewis, Lois; NE-3	Dallas
Kelly Carl; A&S-1	Galveston	Lewis, Mamie Etta; A&S-4	Beaumont
Kelley Etta Merl; A&S-4	Kernes	Lewis, March Mae; A&S-4	Port Worth
*Kelley, George E.; Engr-4	Hillsboro	Lewis Margaret Mae; HE-1	Port Arthur
Kelly, Lillie Joe; A&S-1	Fort Worth	Lewis, Marion Claire; A&S-1	Beaumont
Kelly, Orsatti; A&S-2	Galveston	Lewis Mattie Ree; HE-2	Dallas
Kendle, Clarice L.; A&S-2	Rockdale	Lewis Nettie Mae; A&S-4	Prairie View
Kendricks, Dorothy M.;		*Lewis, Richard S.; A&S-4	Cameron
A&S-2	Sulphur Springs	Lezine, Henry A.; Ag-3	Pineland
Kennedy, Minnie I.; A&S-3	Ben Wheeler	Lewis, Sammie Ruth; A&S-3	Houston
Kimble Ernest; A&S-2	Prairie View	Lilly, Esther Ruth; A&S-4	Gary
Kimble Ruby Lee; A&S-2	Denton	Lilly, Dwight M.; Ag-2	Gary
Kincade, Frank A.; A&S-3	Troup	Lilly, Ruth; NE-4	Longview
King, Algetha HE-1	Waco	Lindsay, Gloria; A&S-5	Prairie View
King, Beasley R.; A&S-4	Crockett	Lipscomb, Marjorie; HE-2	Brownwood
King, Carolynne J.; NE-1	Bryan	Lisk, Nellie V.; A&S-3	Dallas
King, Doris M. Foster; A&S-4	Austin	Lister, John; Ag-1	Kaufman
King, Manuel; A&S-1	Port Arthur	(1)Lister, Tommy G.; Ind Ed-1	Center
King, Melvin; Engr-4	Bloomington	Little, Helene F.; NE-1	Dallas
King, Ruby Mae; NE-1	Trinity	Livingston, Charles; A&S-2	Dallas
King, Otris M.; Engr-	Benchley	Locke, Mattie L.; A&S-2	Caldwell
King, Vivian V.; A&S-3	Dallas	Lockhart, Johnnie Mae; A&S-2	Dallas
King, William Jr.; Ag-3	Neugulf	(2)Lockett, Volley Ray; Ag-1	Linden
Kingsbury, Margie B.; A&S-1	Ft. Worth	(2)Locks, Jennie V.; A&S-1	Silsbee
Kinney, Lillian; A&S-5	Anderson	Lockwood, Helen T.; A&S-2	Port Arthur
Kirby, Albert Jones; Ag-1	Hempstead	Lollie, Claude C.; Ind Ed-4	Overton
*Kirby, Paul H.; A&S-1	Hempstead	Long, Ruby H.; A&S-1	Lufkin
Knight, John R.; A&S-4	Paris	Long Robert L.; Ag-4	Camden
Knight, Dorothy M.; NE-3	Newton	Loper, Edna Doretha; NE-4	Houston
Knights, Thelma; A&S-2	Port Arthur	Lopez, Betty Joyce; A&S-1	Houston
Knox, Clarice J.; A&S-1	Dallas	Lorder, James L. Jr.; A&S-1	Marlin
(2)Kuykendall, William;		Lott, Ruby Lee; A&S-4	Corpus Christi
Ag-1	Detroit, Mich.	Love, Arizona C.; A&S-2	Linden
Lacy, Erma Jean; A&S-3	Waskom	Love, James A.; A&S-2	Sweeney
Laday, Zannize; NE-3	Waco	Love, Mary Frances; A&S-2	Linden
Lambert, Mary Ella; A&S-2	Waco	Lovelk, Doris H.; A&S-1	Houston
Lampkin, Dorotheus F.; A&S-4	Jacksonville	Lovick, Mae F.; A&S-2	Houston
Lampkin, George; Ag-4	Seguin	Ludd, Clarence L.; A&S-1	Odessa
Lane, Hazel Lee; A&S-4	Beaumont	Lyons, Bernadine; A&S-1	Port Arthur
(2)Landers, Willie M.; HE-4	Jasper	Luster, Lewis Leon; A&S-2	McKinney
Lang, Bertha M.; HE-1	Waco	Lynch, Charles E.; Ag-3	Mexia
(2)Lane, Willie; T-1	Hempstead	Lynch, Chares E.; Ag-3	Mexia
Langley, Melvin J.; A&S-3	Malakoff	Lynch, Vertee Yvonne; A&S-2	Dallas
Langley, Thelma M.; NE-1	Malakoff	McAfee, Hosea Jr.; A&S-1	Carthage
Langston, Julius L.; Ag-3	Corsicana	McCallister, Myrtle J.; NE-1	Garrison
Langston, Lucille; A&S-2	Silsbee	McAlpin, Iris L.; A&S-3	Dallas
Lanier, Mary Jane; A&S-1	Beaumont	McBride, Richard; A&S-3	Conroe
Larkin, William F.; A&S-2	Dallas	McCann, Price V.; A&S-1	Egypt
Latimer, Bonnie J.; HE-3	Bignald	McCauley, Roylene; A&S-1	Plano
Laster, Elnora; A&S-2	Dallas	McClellan, Charles, Engr-3	Galveston
Laventon, Vera Lee; NE-1	Reagon	McClendon, Alexander; A&S-1	Grove
Lavert, Donald R.; A&S-1	Texarkana	McClinton, Emory; A&S-1	Kingsbury
Lavert, Lodean L.; HE-4	Texarkana	McCloudy, Dolores J.; A&S-4	Dallas
Law, Mary Delores; A&S-1	Bay City	McCowan, Ira Lee; A&S-3	Dallas
Law, Ben; Ag-	Jefferson	McCullough, Lloyd M.; Engr-1	Ft. Worth
Lawson, Edward L.; A&S-2	Longview	McCullough, Sammie L.; A&S-4	Galveston
Lawson, Fannie Lee; A&S-4	Lubbock	McCullough, William H.; A&S-3	Ft. Worth
Lawson, Marie E.; A&S-1	Hughes Springs	McDade, Dorothy Jean; A&S-1	Rockdale
Leake, Evelyn P.; HE-1	Lufkin	McDade, Narcissie; A&S-2	Bellville
Leblanc, Lillian; A&S-3	Beaumont	McDaniel, Jake E.; A&S-2	Galveston
Lee, Dorothy Mae; T-1	Hooks	McDavid, Jesse; Ag-4	Overton
Lee, Erma S.; HE-5	Navasota	McDonald, Clinton; Engr-3	Dallas
Lee, Lo Letta; A&S-1	Terrell	McDonald, Jerome F.; A&S-1	Odessa
Lee, Mary L.; HE-1	Sweeney	McDonald, Mark T.; A&S-1	San Angelo
(2)Lee Mary L.; HE-1	Fort Worth	McDonald, Morris; A&S-4	Houston
Lee, Wilma Lynn; NE-1	Beaumont	McDonald, Thaddeus A.; Ag-2	Cedar Creek
Legginton, Juanita; A&S-4	Silsbee	McDonald, Theresa E.; A&S-1	Silsbee
Lemons, Cassie Mae; A&S-2	Bay City	McDowell, Vernice; HE-3	Lincoln
Lenzy, Ruby Lee; A&S-1	Houston	McFadden, Muriel W.; A&S-1	Houston
Leonard, Joe E.; Ag-1	Crockett	McDuffy, Blanche; HE-3	Shepherd
Lester, Viola M.; A&S-4	Fort Worth	McDuffy, Irene; HE-3	Shepherd
Levy, Roy Boudeaux; T-2	Port Arthur	(2)*McFarland, Clarence; A&S-4	Mineola
(2)Levingston, West; T-1	Houston	McGee, Lenora; HE-5	Seguin
Lewis, Barbara J.; A&S-3	San Antonio	McGill, Ella R.; A&S-1	Mt. Pleasant

- McGill, James Otis; A&S-1Mt. Pleasant
 McGill, Oscar; A&S-1 Mt. Pleasant
 McGlaston, Bobbie Jo; A&S-2Marlin
 McGowan, Jewel M.; A&S-2Hempstead
 McGowan, Joyce M.; A&S-4Houston
 (1)McGowan, Mary Ruth;
 NE-4 Nachodoches
 *McGrew, Aquila Jr.; Engr-4 Columbus
 McIlveen, Frederick; A&S-2 Teague
 McIntyre, Hattie; A&S-1San Antonio
 McKinney, James E.; A&S-1 Van Alstyne
 McKnight, Edgar; A&S-1T Crockett
 McLennan, Earnest Jr.; Engr-1Waco
 McLennan, Freddie D.; Engr-1Waco
 McMillan, Martha; NE-4Houston
 (2)McMillan, Vivian; A&S-5 Prairie View
 (2)McNeely, Geniene;
 A&S-5 Prairie View
 McNeil, Gilbert; Ind Ed-1Somerville
 McNeil, Joye; A&S-3Denison
 McNeil, Marcellus B.; A&S-3Waco
 McPherson, Evelyn A.; A&S-4Cuero
 *McPhaul, Willis C.; Ag-5Bonham
 McPherson, Annie M.; Ind Ed-4Gonzales
 (2)McShan, Elizabeth; A&S-1 Dallas
 Mabry, Imogene; A&S-2Quitman
 Mack, Overline E.; A&S-1Linden
 (1)Mack, Rosa D.; NE-1Bryan
 Mackey, Leland M.; A&S-1Austin
 Madison, Ervin E.; A&S-4McKinney
 Malone, Bobbye C.; A&S-3Oakwood
 *Malone, Cecil D.; Ag-5Huntington
 Malone, Doris Faye; A&S-1Electra
 Malone, Helen; A&S-4Angelina
 Malone, K. H. Jr.; Ag-1Huntsville
 (2)Malone, Jack; A&S-1Wharton
 Malone, Luetha; HE-2Malakoff
 Malone, Ruby Lee; A&S-3Pittsburg
 (2)Malone, Mildred; HE-4Grayburg
 Malone, Ruth S.; HE-4Navasota
 Malvern, James A.; A&S-4Denison
 Mangram, Abb W.; A&S-3El Paso
 Mann, Horace Lee; Ag-2Weimar
 (2)*Manners, Roy C. E.;
 Manning, Cradin L.; HE-3 Navasota
 Manning, Barbara; A&S-4San Angelo
 Manor, Garnett; A&S-3Tulsa, Okla.
 Manor, Glyn Dee; A&S-3Tulsa, Okla.
 Manoy, Viola L.; A&S-1Sherman
 Mapps, Amy; NE-3Elgin
 Marable, Dorothy; A&S-4Ore City
 Mark, Mildred D.; A&S-2Lufkin
 Marsh, Tommy E.; A&S-2Stanford
 Marshall, Erma Lee; A&S-2Ennis
 Marshall, Ira Jean; HE-2Ennis
 Marshall, Lettie; A&S-3Chester
 Martin, Betty L.; A&S-2Dallas
 Martin, Dorothy L.; HE-4Luling
 (2)Martin, Blanch L.; A&S-1Smithville
 Martin, Elsa M.; HE-4Clarksville
 Martin, Ethel Jewel; A&S-4Clarksville
 Martin, Freddie M.; A&S-4Bryan
 Martin Gid Arthur; A&S-3Nacogdoches
 (2)Martin, Gwendolyn M.; A&S-1 Alto
 Martin, Howard R.; A&S-4Nacogdoches
 Martin, Jaunita V.; NE-1Alto
 Martin, Leola D.; A&S-4Linden
 Martin, Mary M.; A&S-1Cameron
 Martin, Welton; A&S-2Annona
 Mason, John Willis; Ag-3Dallas
 Mason, Alexander M.; A&S-1 San Antonio
 Mason, Bettye J.; A&S-1Anderson
 Mason, Richard Lee; A&S-1Denton
 Mass, Fannie W.; A&S-2Crockett
 Massey, Billy H.; A&S-1Dallas
 Massey, Delaura J.; A&S-3Dallas
 Massey, Edna Mae; A&S-1Apple Springs
 Massey, Ira Clark; Ag-4Athens
 Massey, Gloria D.; A&S-1 Apple Springs
 *Matherson, Arthur Jr.; A&S-4 Beaumont
 Mathis, Charles A.; Engr-4Dallas
 Matthews, Frances M.; A&S-3Dickinson
 Matthews, Ray Jean; NE-1Houston
 Matthews, James W.; Engr-3El Paso
 Matthews, Willie M.; NE-1Houston
 Mattox, Ira Gene; A&S-3Wiergate
 Maxey, Johnnie R.; A&S-3Longview
 Maxie, Jesse James; Engr-1Dallas
 Mayberry, Centrie A.; A&S-1Memphis
 (2)Mays, Edna Marie; A&S-4Mexia
 Mays, Helen Ruth; HE-4Mexia
 Mays, James Earl; A&S-2Elkart
 Mays, Ola Mae; A&S-1Terrell
 Mayse, Gladys Mae; A&S-1Davilla
 (2)Mayse, Julius; A&S-Spec Temple
 Meade, Pearl B.; A&S-3Dallas
 Mender, George Oliver; Ag-4Beeville
 Melton, Homerzelle; A&S-4Houston
 Melonson, Allen Francis; Engr-4 Liberty
 Menefee, Oneida; NE-1Henderson
 Melontree, Mildred L.; HE-3Marlin
 Meshack, Nelle La; A&S-4Temple
 Meshack, Fred D.; A&S-1Temple
 (2)Mickle, Mattie L.; A&S-3Navasota
 Mikle, Earline Grace; A&S-4Houston
 Milburn, Margaret; A&S-2Beaumont
 Miles, Elijah W.; A&S-2Hearne
 Miles, Roosevelt Jr.; A&S-4Houston
 Miles, Thelma Joyce; A&S-4Hearne
 Miller, Ann Elise W.; HE-2Vernon
 Miller, Audrey Mae; HE-3Malakoff
 Miller, Billy Gene; Ind Ed-4Dallas
 Miller, Jesse E. Jr.; A&S-2San Antonio
 Miller, Jeffrie C.; Ag-1Franklin
 (2)Miller, Joseph; Ag-5Huntsville
 *Mills, Lionel; A&S-4Brenham
 Mills, Willie Lee; A&S-4Baytown
 Milstead, Anna; HE-2Port Arthur
 Milus, Modene L.; A&S-3Lubbock
 Moffett, Barbara Ann;
 A&S-2 Farmersville
 Minter, Lula F.; A&S-3Dallas
 Minter, Myrna Loy; A&S-1Greenville
 Mitchell, Evelyn E.; HE-2Thornton
 *Mitchell, Hubert L.; A&S-5Daingerfield
 Mitchell, James L.; Ag-4Dallas
 Mitchell, Luke C.; A&S-1Naples
 Mitchell, Luther J.; A&S-5Denison
 Mitchell, Mary Lois; A&S-1 Mt. Pleasant
 Mitchell, Walter Jr.; Ind Ed-4Matador
 (2)Mitchell, Waylon R.;
 Ind Ed-1 Matador
 Mitchell, Willie; A&S-SpecPrairie View
 Modester, Willie B.; HE-4Fort Worth
 Moffitt, Jo Helen; A&S-1Farmersville
 Molett, Barbara J.; HE-1Houston
 Montgomery, Alma R.; A&S-4Tatum
 Mooney, Vernon; Ind Ed-1Fort Worth
 Moore, Preston E.; A&S-1Jasper
 *Moore, Lawrence; A&S-4Rosenburg
 Montgomery, Arthur; Ag-2Gilmer
 Montgomery, John E.; Ag-2Jefferson
 (2)*Montgomery, Mildred;
 A&S-5 Prairie View
 Moreland, Helene; A&S-1Cushing
 Moreland, Rustus J.; Ag-4Jacksonville
 Morgan, Alton B.; Engr-1Bremond
 Morgan, Dorothy J.; A&S-3Coolidge
 Morgan, Douglass; Ag-1Taylor
 Morgan, Elizabeth; A&S-1Bremond
 Morgan, Lois; A&S-4Bremond
 Morgan, Luella M.; A&S-1Conroe
 Morris, Arvis M.; A&S-3Conroe
 (2)*Morris, Booker T.; A&S-1Cuero
 Morris, Curtis Y.; A&S-1Cuero
 Morris, Grady Lou; A&S-1Nacogdoches
 *Morris, Durwood; Ag-4 Sulphur Springs
 Morris, Otis; A&S-4Houston
 Morrison, George E.; A&S-4Alto
 Morrison, Jacque S.; A&S-1Hearne
 Morrow, Billie L.; A&S-3San Angelo
 Morrow, Willie B.; A&S-1Bryan

- Morrow, Bobbie S.; A&S-3 San Angelo
 Mosley, Annie Jean; A&S-1 Abilene
 (2) Mosley, Audrey M.; A&S-4 Hempstead
 Mosley, Fannie M.; A&S-1 Raywood
 Mosley, La Vaughn; A&S-1 Prairie View
 Mosley, Norma Jean; A&S-1 Tenaha
 Moss, Warner O.; A&S-1 Henderson
 (2) Moye, Laruth; A&S-1 Fort Worth
 Mouton, Wilford J.; A&S-1 El Campo
 Muckelroy, Alice; A&S-5 Hempstead
 Muckelroy, Dorothy E.; A&S-4 Hempstead
 Muckelroy, Roy R.; Engr-4 Kilgore
 Mucker, Joe H.; A&S-2 Waco
 Murphy, Charles E.; A&S-1 Bryan
 Murphy, Eugene; A&S-1 Jefferson
 Murphy, James Marie; A&S-1 Texas City
 (2) Murphy, Oron T-1 Centerville
 Murray, Lois; A&S-4 Dayton
 Muse, Robert E.; A&S-1 Palestine
 Myles, Doris Elaine; A&S-3 Longview
 *Myles, Willie Don;
 A&S-4 Shreveport, La.
 Nash, Clarcia S.; A&S-4 Dallas
 Myles, Myrtle; NE-1 Sea Brook
 Nash, Dorris M.; A&S-4 Elgin
 Nathan, Earl B.; A&S-5 Brenham
 Neal, Corene; A&S-3 Beasley
 Neal, Loreta; A&S-1 Beasley
 (2) Neal, Wilma Jean; A&S-1 Hempstead
 Nelson, Cortelyou L.; A&S-1 Gainesville
 Nelson, Donnie Ray; Ind-Ed-2 Henderson
 Nelson, Florence J.; A&S-3 Galveston
 Nelson, Leon R.; Ind-Ed-1 Ore City
 Nelson, Mildred J.; A&S-1 Dallas
 Nelson, Robert; A&S-1 Wharton
 Nettles, Arthur; A&S-3 Houston
 Nettles, Bettie J.; NE-1 Jacksonville
 Newsome, Almarie G.; A&S-1 Dallas
 Newsome, Benjamin; Ind Ed-4 Bremond
 Newsome, Willie M.; A&S-2 Dallas
 Newton, James W.; A&S-1 Clarksville
 Neza, Gloria Dean; A&S-1 Port Arthur
 Nichols, Theresa E.; A&S-1 Beaumont
 Nicholson, David; A&S-1 Omaha, Neb.
 Nicholson, Mary Rose; A&S-3 Omaha, Neb.
 Nickens, Claudette; HE-2 Huntsville
 Nickerson, Evelyn; A&S-2 Childress
 Nix, Walter Earl; Ag-1 Lyons
 Nixon, Eugene; Ind Ed-1 Bryan
 Noble, Hazel D.; A&S-2 Cleveland
 Nolan, Ollie A.; A&S-2 Smithville
 Nolan, Robert; A&S-1 Quitman
 Norman, Austin; A&S-3 Galveston
 Norris, Gloria J.; A&S-4 Fairfield
 Nowlin, William J.; A&S-2 Dallas
 Nunn, Bill; A&S-2 San Angelo
 Oakman, Dorothy Lee; A&S-1 Barlett
 Odoms, Gloria; A&S-2 Galveston
 Ogletree, Mack D. Jr.; A&S-1 Woodville
 (2) Oliver, Barbara J.; A&S-1 Dallas
 O'Neal, Coral Lee; HE-1 Waxahachie
 O'Neal, Easie Mae; A&S-4 Lubbock
 O'Neal, Mildred; NE-3 Brazoria
 Orr, Clyde H.; A&S-4 Van Alstyne
 Orum, Blossom; A&S-2 Groesbeck
 Overstreet, Early; A&S-1 Bremond
 Owens, Clarence; A&S-2 Gilmer
 Owens, Earlene; A&S-4 Oakwood
 Owens, Fannie M.; HE-4 Texarkana
 Owens, Harrison; A&S-1 Center
 Owens, Freddie M.; A&S-1 Huntsville
 Owens, Henry; Ag-1 Austin
 *Owens, Samuel; Engr-3 Austin
 Pace, Doris M.; A&S-1 Huntsville
 Pace, Emma Jean; NE-1 Bryan
 Pace, Millie; A&S-4 Bryan
 Pace, Millie Lucille; A&S-2 Bryan
 Page, Annie Lee; A&S-1 Cedar Lake
 Paige, Lonnie Bell; A&S-3 Longview
 (2) Palmer, E. A.; Ag-Grad Liberty
 Palmer, Mauvelynne; A&S-4 Tyler
 Paris, Eddis; A&S-4 Montalba
 Parish, Ruby Lee; A&S-2 Dallas
 Parker, Dorothy L.; A&S-2 Fort Worth
 (2) Parker, Ernestine; A&S-3 Caldwell
 Parker, Elbert; A&S-1 Fort Worth
 Parker, Henry; Engr-1 Port Arthur
 Parker, Julius; A&S-2 New Braunfels
 Parker, Mattie Mae; A&S-2 Lawton, Okla.
 Parker, Yvonne B.; A&S-2 Quitman
 Parkinson, Bernice; NE-1 Tyler
 Parks, Pearl E.; A&S-4 Lufkin
 Parks, Robert E.; A&S-1 Lufkin
 (2) Parnell, Dennystine; A&S-1 Dallas
 Patch, Bobbie; A&S-Spec. Dallas
 *Patterson, Albert L.; A&S-1 Austin
 Patrick, Joseph D.; A&S-2 Galveston
 Payton, John E.; A&S-1 Livingston
 (2) Peacock, Jewel; A&S-1 Hempstead
 Pearson, Gladys L.; A&S-3 Mexia
 (2) Pendergraft, Mack L.; A&S-1 Galveston
 Peoples, Myrtle Marie; A&S-1 Pittsburg
 Pendleton, Gustavia; HE-1 Honey Grove
 Penn, Mary E.; NE-4 Eagle Lake
 Pennington, Mae F.; A&S-4 Lamesa
 Penrice, Robert; A&S-1 Brookshire
 Perkins, Andrew D.; A&S-4 Amarillo
 Perkins, Albert; Ag-4 Linden
 Perkins, Horace A.; A&S-4 El Campo
 Perkins, Lois E.; A&S-1 San Antonio
 Perkins, Thomas J.; Ind Ed-1 Crockett
 Perry, Ervin; Engr-1 Coldspring
 Perry, Ervin; Engr-1 Coldspring
 Perry, John H.; A&S-3 McKinney
 Perry, Lawrence D.; A&S-1 Dallas
 Perry, Mervin E.; Ag-1 Coldspring
 *Pete, Freddie; A&S-1 Houston
 *Peters, Sam; A&S-4 Bay City
 Pettie, Carrie L.; HE-1 Dawson
 Pettitt, Barbara; NE-4 Kendleton
 Pettitt, Iva Jo; A&S-1 Kendleton
 Pettitt, Wilma Jean; A&S-1 Wharton
 Petty, James E.; A&S-4 Cameron
 Petty, Johnnie B.; HE-2 Bryan
 Petty, Prunella; A&S-4 Bryan
 Petty, William C.; A&S-2 Cameron
 Phelps, Jessie; A&S-4 Houston
 Phifer, Alva Jr.; A&S-4 Dallas
 Phillip, Jimmie Lee; A&S-2 Prairie View
 Phillips, Beverly Jo; HE-1 Dallas
 Phillips, Dorothy I.; HE-3 Wharton
 Phillips, Ethel R.; A&S-1 Henderson
 Phillips, Nathaniel; Ag-4 Neches
 Phillips, Wesley C.; A&S-1 Stephenville
 Phillips, Rosetta; A&S-1 Beaumont
 *Pickard, John L. Jr.; A&S-2 El Paso
 Pickard, Marcus; A&S-1 Austin
 Pickens, McKinley; A&S-4 Houston
 Pierre, Dallas; A&S-2 Port Arthur
 Pierre, Loreta; NE-3 Port Arthur
 Pinkard, Jamsie Ruth; A&S-3 Groesbeck
 Pipkin, Lorenzo Jr.; A&S-3 Beaumont
 Pipkin, Lionel W.; A&S-2 Beaumont
 Pitts, Geraldine D.; A&S-2 Seguin
 Platt, Lois E.; A&S-1 Denison
 Poindexter, Rachel; HE-3 Prairie View
 Polk, Lenard; A&S-3 Gonzales
 Polk, J. D.; Engr-2 Midland
 (2) Polk, Mary Frances;
 A&S-3 San Antonio
 Pope, Lawrence L.; A&S-3 Henderson
 Poole, Thelma; HE-4 Hempstead
 Posey, Martha F.; A&S-2 Dallas
 Potts, Martha L.; A&S-4 Bryan
 Pouney, Venita D.; HE-3 Palestine
 Powell, Alvin R. Jr.; A&S-1 New Boston
 (1) Powell, Lucille; A&S-1 Beaumont
 Powers, Oma Lee; A&S-1 Nacogdoches
 Powers, Rose Lene; A&S-1 Nacogdoches
 Prater, Mary H.; A&S-4 Cameron
 Pratt, Vivian M.; NE-1 Houston
 Prescott, Helen M.; A&S-2 Groesbeck

- (2) President, Jessie; A&S-1 Baytown
 Preston, Doris R.; A&S-4 Bay City
 *Price, Floyd; Ind Ed-Spec Lubbock
 Price, Jack; A&S-3 Dallas
 Price, Johnny; A&S-2 Smithville
 Price, Lawrence; Engr-1 Dallas
 Price, Robbie Sue; A&S-1 Gilmer
 Price, Robert; Ag-3 Smithville
 Prothro, John; Engr-1 Dallas
 Pruitt, Espanola V.; A&S-1 Como
 (2) Pruitt, Marie E.; A&S-1 Houston
 Pruitt, Pinkie C.; A&S-3 Linden
 Pryor, Wilford; Ag-3 Smithville
 Radford, Coleman J.; A&S-4 Hawkins
 Rafe, Mary Louise; A&S-1 Oakwood
 Raglin, Naomi; A&S-4 Richlands
 Raglin, Patsy Ann; A&S-3 Groesbeck
 Ragster, Leroy R.; Engr-4 Beckville
 Raibe, Henderson R.; A&S-4 Dallas
 Randall, Alphonso; A&S-1 Dallas
 Randall, Ferrell; Engr-1 Dallas
 (2) Randall, Marguerite; A&S-Spec Prairie View
 Range, Willie Lee; Engr-1 Dallas
 Ransom, Willie E.; A&S-2 Longview
 Ransom, Yvonne; A&S-1 Mexia
 Rasmus, Barbara Jean; A&S-2 Houston
 Ratcliff, Bettie J.; A&S-2 Seguin
 Ratcliff, Hazel M.; A&S-2 Houston
 Ratcliff, Helen L.; A&S-2 Houston
 Ratcliff, Rhine E.; A&S-2 Luling
 Rausaw, Doris; HE-2 Nacogdoches
 *Ravenell, Alonza; A&S-3 Mexia
 Rawls, Maxine K.; A&S-1 Camden
 Ray, Carlos Louise; A&S-2 Temple
 Ray, Ella Mae; A&S-1 Galveston
 Ray, Jo Jewel; A&S-2 Houston
 Ray, Narvella; A&S-4 Groesbeck
 Rayson, Ezzie L.; HE-2 Carthage
 Rayson, Lovie D.; A&S-2 Carthage
 Reathy, Willie Roy; Engr-1 Edna
 Redd, Bettie Jean; A&S-4 Austin
 Reddx, Lora Jean; A&S-1 Houston
 Redmond, Gloria Dean; A&S-1 Beaumont
 Redman, Walter; Engr-4 Fort Worth
 Reece, Charles A.; A&S-2 Harleton
 Reece, Rudolph; A&S-1 Conroe
 Reece, Jimmy L.; Ag-4 Coldspring
 Reed, Bonner S.; A&S-1 Houston
 Reed, Jesse Lee; A&S-1 Sweetwater
 Reed, Eura Nita; A&S-2 Waxahachie
 Reed, L. V.; A&S-2 McKinney
 Reeves, Imogene; NE-3 Lane City
 Reeves, Lillian L.; A&S-3 Palestine
 Reeves, Theodis H.; A&S-1 Gilmer
 Reliford, Clyde; Ind Ed-1 Jefferson
 *Rettig, Eolus V.; A&S-Spec Dallas
 Revere, Maxine; A&S-1 Beaumont
 (2) *Reynolds, Albert B.; Ind Ed-1 Hempstead
 Reynolds, Irma Jean; A&S-3 Mexia
 (2) Reynolds, L. E.; A&S-1 Dallas
 (1) Rhem, Sherman Lee; A&S-4 Rockdale
 Rhodes, James; Ag-5 Leona
 Rhodes, Ollie Mae; NE-1 West Columbia
 Rhymes, A. C.; A&S-3 Mt. Pleasant
 Richards, Dorothy L.; A&S-2 Fort Worth
 Richards, Frances L.; NE-3 Prairie View
 Richards, Marvin; A&S-3 Orange
 Richards, Maxine; NE-3 Prairie View
 Richards, Reatha J.; A&S-1 Hempstead
 Richardson, Belzie C.; A&S-3 Hillsboro
 Richardson, Cluren; Ag-3 Naples
 Richardson, George L.; Eng-1 Ft. Worth
 *Richardson, James A. A&S-Grad Brenham
 Richardson, Lee Van; A&S-4 Hillsboro
 Richardson, Lettie M.; A&S-4 Oakhurst
 Richardson, Thelma T.; A&S-1 Brenham
 Rickett, Benjamin; A&S-2 Beaumont
 (2) Rickett, Lois; A&S-1 Beaumont
 Rickett, Jean F.; A&S-2 Beaumont
 Riggs, Marie E.; A&S-4 Dallas
 Riggsby, Elijah; A&S-1 Odessa
 Riley, Annie D.; HE-4 Houston
 Riptoe, Lillian; A&S-4 Ennis
 Riley, Lovie Jr.; Ag-2 New Boston
 Rivers, Horace H.; A&S-4 Giddings
 Riley, Wilbert; Ind Ed-2 Port Arthur
 Roach, Marjorie Z.; A&S-3 Elkhart
 Roach, Earline; HE-1 Augusta
 Roach, Sylvester; A&S-2 Seguin
 Roan, Edward F.; HE-1 Baytown
 Roan, Thomas A.; A&S-2 Baytown
 Roun, Thomas A.; A&S-2 Baytown
 Robertson, Dorothy M.; A&S-2 Port Arthur
 Robertson, Bernice M.; A&S-1 San Angelo
 Roberson, Margaret; HE-2 Longview
 Roberts, Alvin E.; A&S-4 San Antonio
 Roberts, Beatrice; A&S-2 Rayburn
 Roberts, Dorothy Mae; A&S-1 Mt. Belvue
 Roberts, Billy G.; A&S-3 Mineola
 Roberts, Doris Marie; A&S-1 Lovelady
 Roberts, Dorothy Jean; HE-1 Longview
 (2) Roberts, Ed; A&S-1 Dallas
 Roberts, Gladys D.; NE-1 Windom
 Roberts, Glennie; A&S-1 Brenham
 Roberts, Hallie E.; A&S-2 Houston
 Roberts, Marilu; A&S-1 Richmond
 Roberts, V. J.; HE-2 Rayburn
 Robertson, Edward; Ag-1 Ramsey
 Robertson, Dorothy M.; A&S-1 Port Arthur
 Robinson, Billee S.; A&S-4 Ft. Worth
 Robinson, David R.; A&S-1 Houston
 Robinson, Elmira; NE-4 Freeport
 Robinson, Ermadine; A&S-4 Maples
 Robinson, Freeman Jr.; A&S-2 Frust
 Robinson, Howard C.; A&S-4 Beaumont
 Robinson, John D.; Engr-1 San Antonio
 *Robinson, Lenard; A&S-2 Huntville
 Robinson, Mary Ellen; NE-1 Freeport
 Robinson Mary Lee; NE-3 Fort Worth
 Robinson, Mary Rose; A&S-2 Orange
 Robinson, Myrtle Mae; A&S-1 Elkhart
 Robinson, Orena; A&S-1 Tyler
 *Robinson, Ruby Lee; Ind Ed-4 Taylor
 Rodgers, Ester V.; A&S-4 Flatonia
 Rodgers, Oma Jean; A&S-4 Pittsburg
 Rogers, Mary A.; NE-3 Port Arthur
 Rogers, Charlie; A&S-4 Dallas
 (1) Rogers, Ida Marie; A&S-3 Pittsburg
 Rogers, Oscar C.; Ag-1 Houston
 Rollins, Lula B.; A&S-3 Liberty
 Roquemore, Garrett T.; A&S-2 Houston
 Roper, Annie Gloria; A&S-1 Beaumont
 Roquemore, Nettie J.; A&S-2 Henderson
 *Roquemore, Saul B.; Ag-4 Bivins
 *Rose, James; A&S-4 Sulphur Springs
 (2) Ross, Dorothy J.; A&S-4 Booth
 Ross, Jessie Lee; A&S-2 Mexia
 (2) Ross, Jimmie Lee; A&S-4 Henderson
 Ross, Olethia S.; A&S-3 Huntsville
 Route, Bradford L.; A&S-2 Austin
 Roy, Caesar A.; A&S-3 Jacksonville
 Roy, Cleveland; A&S-1 Palacios
 Ruffin, Joseph; Engr-3 Seguin
 Russ, Andrewetta; A&S-4 Longview
 Russell, Charles Alva; Engr-3 Quitman
 Russell, Dan M.; Engr-4 Fort Worth
 Russell, Fannie L.; A&S-4 Hillsboro
 Russell, Georgia M.; A&S-1 Fort Worth
 Russell, Jervis T. Jr.; A&S-2 Fort Worth
 Russell, Paul; A&S-1 Lampasas
 Russell, Robbie L.; HE-4 Grayburg
 Ryan, Opal L.; HE-1 Bonham
 Sadberry, Carolyn J.; HE-5 Berchley
 Sadler, Carl Allen; A&S-1 Dallas
 Sadler, Sidney R.; A&S-3 Valley Mills
 Sadler, Wellington D.; Engr-2 Lubbock
 Salter, Betty D.; A&S-2 Timpson
 Sample, Beadie; NE-3 Timpson
 Samuels, Kittye D.; A&S-4 San Antonio

Samuel, Layon E.; A&S-5	Bon Wier	Sims, Rosetta D.; A&S-2	Dallas
(2)Sams, Reatha M.; HE-1	Waco	(2)Singleton, Cecilia C.;	
Sanders, Albert B.; Ag-3	Kilgore	HE-5	Port Arthur
Sanders, Gladys J.; HE-1	Bryon	Singleton, Dorothy J.; A&S-1	Austin
Sanders, Billie; Engr-4	Nacagdoches	Siverand, Alberta; A&S-2	Beaumont
Sanders, Eugenia; Ind Ed-1	East Bernard	Skinner, Jean E.; A&S-1	Dallas
Sanders, Gladys J.; HE-1	Bryan	*Slider, Alvin; Ind Ed-1	Temple
Sanders, V. Etta; NE-1	Houston	Smart, Wildred; A&S-2	Crosby
Sanders, Lynn B.; Engr-4	Waskom	Smith, Abner, Jr.; A&S-2	Galveston
Sanders, Mary J.; HE-4	Willis	Smith, Alton C.; A&S-1	Luling
Sanders, Nettie; HE-4	Bartlett	Smith, Barbara Jean; A&S-2	Fulshear
(2)Sanders, Robert E.; Engr-4	Yoakum	Smith, Beatrice; NE-1	Frankston
Sanders, Virgil; HE-3	Fort Worth	Smith, Betty Jo; A&S-1	Dallas
Sandles, Floyd L.; A&S-3	Normangee	Smith, Bettye L.; HE-1	Rockdale
Sanford, Cora Fae; A&S-3	Overton	Smith, Bobby Ray; Engr-1	Fort Worth
Sargent, Harold; A&S-4	Houston	Smith, Carolyne; A&S-2	Beaumont
Sauls, Lavera Mae; NE-1	Austin	Smith, Ceeta; A&S-1	Gilmer
*Saxton, Richard W.; A&S-3	Houston	Smith, Chester Ray; A&S-1	Alto
Scales, Edna Earl; A&S-1	Washington	Smith, Clarence Jr.; A&S-2	Alto
Scallion, Elijah; A&S-4	Schulenburg	Smith, Clarence A.; A&S-3	Galveston
Scott, Alvin R.; Ag-4	Jacksonville	*Smith, Clinton B.; A&S-4	Luling
Scott, Betty Joyce; A&S-4	Beaumont	(2)Smith, Cornell L.; A&S-1	Kildare
Scott, Cecil C.; A&S-4	Hallsville	Smith, Dinard A.; A&S-3	Queen City
Scott, Elizabeth; A&S-1	Waxahachie	Smith, Doloris L.; A&S-3	Amarillo
Scott, Maurice; Ind Ed-1	East Bernard	Smith, Dorothy D.; A&S-2	Houston
Scott, Jessie Mae; A&S-1	Prairie View	Smith, Dorothy Jean; A&S-3	Dallas
Scott, Maxine K.; A&S-3	East Bernard	Smith, Dorothy Jean; A&S-1	Longview
Scott, Ollie M.; A&S-5	Prairie View	Smith, Dorothy Lee; A&S-4	Camden
Scott, Oneida Jean; A&S-2	Dallas	Smith, Edward Lee; A&S-1	Amarillo
Scott, Paul; A&S-4	Robstown	Smith, Elvin; A&S-3	Beaumont
Scott, Raymond L.; A&S-1	Houston	Smith, Erma Lee; HE-4	Hempstead
Scott, Raymond P.; A&S-1	Port Arthur	*Smith, Ernest;	
Scott, Violet J.; HE-3	Jacksonville	Ind Ed-1	Starkville, Mississippi
Scranton, Phillip J.; A&S-3	Houston	Smith, Esther R.; A&S-3	Dallas
*Scourten, Richard Lee; Ind Ed-4	Terrell	Smith, Eugene E.; A&S-3	Palestine
Scroggins, David; Ag-1	Elgin	Smith, Glodean; A&S-1	Tenaha
Scruggs, Naomi; A&S-1	Dallas	Smith, Harold; A&S-3	Huntsville
(2)Seastrunk, Dempsey; Ag-5	Jasper	(1)*Smith, Harvey I.; Ag-4	Port Lavaca
Sedberry, Edward C.; A&S-4	Houston	Smith, Haywood; A&S-4	Glidden
See, Wilbur; Ag-4	Calvert	Smith, Jessie Mae; A&S-2	Longview
Sells, Lola; A&S-2	Jamestown	Smith, Laura E.; A&S-2	Marlin
Sells, Martha; NE-w	Buma	Smith, Joe Wallace; A&S-1	Beaumont
Selman, Herman; A&S-1	Jewett	Smith, Leboria A.; A&S-1	Silsbee
Senigaur, Eddie; A&S-1	Beaumont	Smith, Leroy; Ind Ed-3	Baynton, Okla.
Senigaur, Edward; A&S-1	Beaumont	Smith, Lester; A&S-4	Baytown
Sexton, Wilma Fae; HE-2	Nacagdoches	Smith, Levester L.; A&S-5	Galena Park
Shankle, Florence E.; A&S-2	Beaumont	Smith, Lorene; NE-3	Linden
Shanklin, Adalina; HE-5	Galveston	Smith, Mable Jeanette; A&S-2	Overton
Shannon, Marthall; A&S-3	San Marcos	Smith, Marjorie Nell; A&S-1	Dallas
Sharkey, Gladys M.; A&S-2	Waco	Smith, Marjorie; HE-4	Henderson
(1)Sharp, Ruth M.; A&S-1	Silsbee	Smith, Mattie Ruth; A&S-1	Marlin
Shavers, Maxine; A&S-1	Houston	Smith, Melvin; A&S-1	Huntsville
(2)Shaw, Earnest; Ag-Spec	Lufkin	Smith, Norma D.; A&S-1	Fort Worth
Shaw, Lawrence J.; Ag-3	Jasper	Smith, Obie Roberson; A&S-1	Bryan
Shelby, Helen Ruth; A&S-1	Dallas	Smith, Raymond; A&S-2	Needville
Shepherd, Billie Y.; A&S-1	Nacagdoches	Smith, Raymond W.; A&S-1	Glidden
Shepherd, Eva Ruth; A&S-1	Elkhart	Smith, Ruth J.; A&S-2	Beaumont
(2)Shepherd, Jim W.; Ag-1	Brookshire	Smith, Shirley B.; A&S-3	Huntsville
Sheppard, Era Faye; A&S-4	Reklaw	Smith, Trixie Lee; A&S-3	Gilmer
Sheppard, Eva Yvonne; A&S-3	Ft. Worth	Smith, William S.; A&S-3	Dallas
Sheppard, Frederick; A&S-3	Washington	Smith, Billy Joe; A&S-1	Belton
Sherman, Dorothy P.; A&S-1	Dekalb	Smothers, Benjamin W.; A&S-1	Malakoff
Sherril, George J.; A&S-2	Luling	Smothers, Claiborne; A&S-3	Malakoff
Sias, Lou Ivory; A&S-2	Beaumont	Sneed, Iva Jewel; A&S-2	Fort Worth
Sigers, Genera; HE-3	Nacagdoches	Smith, Snell, John B.; Ag-1	Wallis
Simien, Hilbert A.; A&S-4	Galveston	Smith, Snell, Madeline; A&S-5	Hempstead
Simien, Jean M.; A&S-1	Galveston	Solomon, Jonquil; NE-4	Prairie View
Simmons, Charlyne V.; NE-2	Dayton	(2)Solomon, Thomas R.;	
Simmons, Doris Lee; A&S-1	Newton	A&S-5	Prairie View
Simmons, Iris Lee; A&S-1	Newton	Smith, Thomas Sidney; Ind Ed-2	Hempstead
Simmons, John E.; Ag-2	Pinland	Southall, Dorothy; HE-3	Bay City
Simmons, Oscar Sr.; Spec.	Prairie View	Southall, Loraine; A&S-4	Markham
Simmons, Melvin; Engr-4	Dallas	Sowell, Valda June; A&S-4	Markham
(2)Simmons, Thelma R.; A&S-3	Dallas	Sparks, Alice E.; A&S-3	Tyler
Simon, Nola Jane; A&S-3	Baytown	Sparks, Leon B.; Ind Ed-5	Terrell
Simpson, Eloise; HE-2	Nacagdoches	Sparks, R. B.; Ind Ed-5	Tyler
Simpson, Wanda Faye; Engr-2	San Angelo	Spears, Arthur G.;	
Sims, Fred E.; A&S-1	La Mesa	Ind Ed-1	Corpus Christi
Sims, Goretta; A&S-3	La Porte	Spence, James A.; Ag-1	Lockhart
Sims, Glendell M.; NE-1	Pickton	(2)Spencer, Joyce Mae; A&S-1	Ponta
		Spencer, Geneva; Engr-2	Brenham

(2) Spencer, Odessa B.; NE-1	Brenham
Spencer, Viola; A&S-3	Brenham
Spikes, Julius; A&S-3	Beaumont
(2) Shepard, Lonnie; Engr-4	Jefferson
Spiller, John L.; A&S-3	Van Vleck
Spinks, Mary L.; A&S-3	Fort Worth
(2) Spivey, Clara B.; A&S-1	Wharton
Spradley, Charline; A&S-1	Wharton
Squire, Alice R.; A&S-1	Vernon
Squire, Clark E.; A&S-1	Vernon
Stafford, Glenna Faye; A&S-2	Baytown
Stallon, Elizabeth F.; A&S-4	Dallas
Stallon, Sammie H.; A&S-4	Dallas
Standberry, Bill W.; A&S-1	Plano
Standifer, Ben H.; Engr-1	Itasca
*Standifer, Joe E.; A&S-5	Itasca
(2) Standifer Joe E.; A&S-1	Beaumont
Stanley, John L.; A&S-4	Linden
Stanton, Ethel O.; A&S-2	Mart
Starks, Georgia Mae; A&S-1	Tyler
Starling, Isiah; A&S-2	Pinehill
Steen, Audrey Lee; A&S-1	Bryan
(2)*Stegger, Eddie; A&S-2	Hooks
Steger, Willie V.; A&S-1	Tyler
Stein, Charles R.; A&S-1	Tyler
Stephenson, A. C.; Engr-1	Prairie View
Steptoe, Earl D.; A&S-1	Hillsboro
Steptoe, James D.; Ind Ed-1	Post
Stevenson, Wilbert C.; A&S-1	Port Arthur
Steward, Belvin B.; A&S-3	Barlett
Steward, Bernice D.; HE-1	Port Lavaca
Steward, Frank R.; A&S-1	Jefferson
Steward, Geraldine; A&S-4	Houston
Steward, Raymond G.; Ind Ed-1	Hallettsville
Stewart, Garrett D.; A&S-3	Waco
Stewart, James Edwin; A&S-3	College Station
Stewart, Lloyd A.; Ind Ed-1	Columbus
Stewart, Myrtle; A&S-4	Beaumont
Stewart, Morris J.; Ag-4	Kerens
Stewart, Tommie Jo; A&S-1	Marlin
Stiggers, Nadine F.; HE-3	Naples
Stimpson, John D.; A&S-1	Plano
Stimpson, Thomas J.; A&S-2	Plano
Stine, Artie Jean; A&S-2	Nacogdoches
Stinnett, Joyce M. D.; A&S-2	Houston
Stinnett, Robert L.; A&S-3	Dallas
Stinnett, Roy J.; Engr-1	Van Alstyne
Stinson, Blanche; A&S-1	De Ridder, La.
Stinson, Earlie J.; A&S-2	Longview
Stoney, Samuel E.; Ind Ed-2	Corpus Christi
(2)*Stringfellow, Floyd; A&S-4	Houston
Strickland, Everett J.; A&S-3	Chicago, Ill.
Sullivan, James O.; A&S-4	Greenville
*Samuel, Robert Jr.; Ag-1	Palestine
Sutton, Gloria; Ind Ed-1	Port Arthur
Sutton, Rosie Marie; A&S-4	Bay City
Sutton, Rubie D.; A&S-1	Mineral Wells
Swaner, Willie James; Ag-1	Luling
Swanson, Velma J.; A&S-2	Palestine
Sweats, Peter; Ag-1	Woodlake
Swift, Emmaline; NE-1	Corsicana
Swoopes, Virginia A.; A&S-1	Amarillo
Sylvester, Earnest; A&S-4	Roganville
Tanner, Lillie B.; A&S-4	Dallas
*Tapscott, Charles; Ag-4	Prairie View
Tarrant, George L.; Engr-1	Italy
Tatum, Mereta Ressa; A&S-4	Mineola
Taylor, Alice L.; NE-1	Austin
Taylor, Bettye J.; A&S-4	Texarkana
Taylor, Charles E.; A&S-1	Houston
Taylor, Edna Marie; HE-1	Palestine
*Taylor, Franklin B.; A&S-2	Prairie View
Taylor, Iva Lee; NE-3	Mt. Calvin
Taylor, Joyce Marie; A&S-2	Floydada
Taylor, Jamie; A&S-2	Baytown
Taylor, Morris Lee; A&S-2	Baytown
Taylor, Samuel; Engr-4	Prarie View
Taylor, Senora K.; A&S-1	Jefferson
Taylor, Wanda E.; NE-1	Musogee, Okla.
Taylor, Woodrow W.; Ag-1	Texarkana
Teal, Mary M.; A&S-3	Crockett
Tealer, Thelma D.; A&S-1	San Antonio
Temple, Oreacie M.; A&S-2	Fort Worth
(2) Templeton, Dessy; A&S-2	Longview
*Terrell, James A&S-2	Victoria
Thomas, Aldon A.; A&S-1	New Orleans, La.
Thomas, Alice; A&S-3	Malakoff
Thomas, Andrew L.; A&S-1	Lamesa
Thomas, Arleta V.; A&S-2	Gulfpport, Miss.
Thomas, Carrie M. T.; A&S-4	Hempstead
Thomas, La Vern Clyde; A&S-1	Ft. Worth
Thomas, Colita F.; A&S-2	Fort Worth
Thomas, Elwanda E.; A&S-1	Nacogdoches
Thomas, Ethel Lois; A&S-2	Cedar Lane
Thomas, Eunice; A&S-4	Sulphur Springs
Thomas, Gloria L.; A&S-2	Dallas
Thomas, James E.; A&S-2	Dallas
Thomas, Janie Lee; A&S-3	Houston
Thomas, Joseph; Ag-3	Malakoff
Thomas, June E.; A&S-2	Fort Worth
(1) Thomas, Lavata L.; A&S-3	Henderson
Thomas, Mildred; A&S-3	Caldwell
(2) Thomas, Obie C.; A&S-1	Teague
Thomas, Paul L.; A&S-3	Galveston
Thomas, Paul S.; A&S-2	Galveston
Thomas, Peggy Francis; A&S-1	Plano
Thomas, Rosa L.; A&S-3	Dallas
Thomas, Ruby Carroll; A&S-4	Prairie View
Thomas, Ruby D.; HE-4	Brenham
Thomas, Shirley J.; A&S-1	Fort Worth
Thomas, T. C.; Ind Ed-4	Fort Worth
Thomas, T. J.; Ag-1	Calvert
Thomas, Theresa; A&S-1	San Augustine
Thomas, Virgetta; A&S-2	Fort Worth
Thomas, Willie Ray; A&S-1	Elgin
Thompson, Ada V.; A&S-2	Houston
Thompson, Berma R.; A&S-4	Dale
Thompson, Earlene Y.; A&S-3	Tyler
Thompson, Edith Marie; A&S-2	Dallas
(1) Thompson, Eli; Ind Ed-Spec	Prairie View
Thompson, Henry L.; A&S-2	Tyler
Thompson, Max M.; A&S-2	San Antonio
Thompson, Melvin; Engr-1	Carthage
Thompson, Opal Dean; A&S-2	Odessa
Thorn, Katherine; A&S-2	Nacogdoches
Thorne, Phillips; Ag-2	Bastrop
Thornton, Bobbye L.; A&S-4	Dallas
Thornton, Charlie Jr.; A&S-1	Calvert
Thornton, Jimmie L.; NE-1	Rockdale
Thrash, Doris; HE-4	Campbell
Thrash, Newel C.; A&S-2	Campbell
Tigner, Carl H.; A&S-4	Houston
Tillery, Charlyne; NE-3	Bryan
Tillis, Cleotrice O.; A&S-2	Dallas
Timmons, Ben J.; A&S-2	McKinney
Timms, Illinois J.; A&S-2	Gladewater
Stewart, Geraldine; A&S-4	Houston
Tippett, Dana V.; A&S-4	Longview
Tippett, Gloria A.; A&S-4	Longview
Tisdell, Hazel; HE-2	Waller
Toland, Jessie Mae; A&S-3	Chapel Hill
Toland, Sallie M.; A&S-1	Caldwell
Tolbert, Gilbert D.; Ind Ed-1	Galveston
Tolbert, Otis C.; A&S-4	Dallas
Tolliver, Cleop Lee; A&S-1	Brenham
Tolliver, Clara Beth; A&S-3	San Marcos
Tolliver, Lucy Mae; A&S-1	Wichita Falls
Tolliver, Morris Lee; A&S-1	Beeville
Toney, Elizabeth V.; A&S-1	Giddings
Townsell, Jones; A&S-1	Garland
Trahan, Delores A.; A&S-2	Beaumont
Trahan, Octavia; A&S-3	Raywood
Travis, James H.; A&S-1	Hearne
Trimble, Elbert; A&S-1	Overton
Trimble, Evelyn; NE-3	Trinity
Tubbs, Anita J.; A&S-3	Texarkana
Tubbs, Billie George; A&S-3	Dallas
Tubbs, George F.; A&S-1	Texarkana

- Tuck, Alton E.; A&S-3 Mineola
 Tucker, Wanda Jaunita; HE-1 Mexia
 Tucker, Weldon E.; A&S-1 Baytown
 Tunson, Geneva P.; A&S-2 Brazoria
 Turner, Adrian; A&S-1 Houston
 Turner, Alvin E.; A&S-1 Cameron
 Turner, Annie V. Bell; A&S-1 Reagan
 Turner, David; A&S-4 Anderson
 Turner, Fionnie M. H.; A&S-4 Dayton
 Turner, Jimmie D.; Ag-1 New Boston
 Turner, Warren; A&S-1 Dallas
 Turner, Wesley L.; A&S-1 Caldwell
 Tutt, Edna Mae; A&S-2 Dallas
 Tyson, Claudia R.; Ind Ed-1 Houston
 Upson, Dora Lee; HE-4 Huntsville
 Ussery, Constance B.; A&S-1 Seguin
 Vaughn, Blossie T.; NE-1 Houston
 Vaughn, Johnnie Ray; A&S-3 Baling
 Vaughn, Robert E.; Ind Ed-2 Waco
 Venerable, Lela M.; A&S-4 Dallas
 Venerable, Wendell; A&S-3 Dallas
 Verdun, Joyce Lee; A&S-4 Orange
 Verse, Anna Lois; A&S-1 Fort Worth
 Vickers, Lyndsay M.; A&S-3 Fort Worth
 Vinson, Charles Etta; A&S-1 Columbus
 Vinson, Lena Mae; A&S-2 Ennis
 Vonner, Ovinton; Ag-5 Prairie View
 Waddleton, Betty A.; A&S-2 Winnsboro
 (2) Waddleton, Elsie Mae; A&S-2 Winnsboro
 Waddleton, Lucy M.; A&S-2 Winnsboro
 (1) Waddleton, Marvin Jr.; Ag-1 Hawkins
 Wade, Gracie Lee; Ag-1 Dallas
 Wade, Joyce; NE-3 Washington
 Wade, Rosa M.; A&S-1 Tyler
 Wadley, Prentice; A&S-4 Corsicana
 Wagner, Rody Eloise; Ag-1 Flynn
 Wagoner, Adolph; A&S-1 Waco
 Wair, Claude B.; Ind Ed-Spec Houston
 Waldon, Minnie Gene; A&S-1 Oakwood
 Waldon, Thelma N.; A&S-1 Itasca
 Walker, Barbara C.; A&S-1 Calvert
 (2) Walker, Charles E.; Ind Ed-3 Grapeland
 Walker, Darnell L.; A&S-2 Fodice
 Walker, Delores D.; A&S-1 Brenham
 *Walker, George; A&S-1 San Angelo
 Walker, Johnnie M.; A&S-4 Bryan
 Walker, Lorraine; A&S-2 Sulphur Springs
 Walker, Mae Frances; NE-1 Silsbee
 Walker, Mary L.; A&S-1 El Campo
 Walker, Odell M.; A&S-2 San Antonio
 Walker, Ruth Laverne; A&S-3 Brenham
 Walker, Sherewood; A&S-1 Dallas
 Wallace, Barbara J.; A&S-2 Houston
 Wallace, Caroline J.; A&S-2 Nixon
 Wallace, Dorothy; A&S-3 Bryan
 Wallace, James W.; A&S-2 Middleton
 Wallace, Thelma J.; A&S-3 Houston
 Wallace, Minnie M.; HE-4 San Antonio
 Walls, Imogene; A&S-3 Corsicana
 Walls, Andrew J.; A&S-3 Fort Worth
 Walls, Wellon; Ind Ed-1 Dallas
 Walton, Willard L.; Ag-4 Winona
 Walton, Billie Jean; HE-2 Winona
 Walton, Billie Jean; A&S-3 Rockdale
 Walton, Goldie F.; A&S-1 Winona
 Walton, Mose H.; HE-4 Houston
 Walton, Tommie L.; Ind Ed-4 Houston
 (2) Ward, Beulah E.; HE-1 Texarkana
 Ward, Rosie L.; A&S-1 El Campo
 Ward, Raymond; A&S-1 El Campo
 Ward, Lenora; HE-1 Crockett
 Waring, Joseph; A&S-4 Douglassville
 Waring, Thomas R.; Ind Ed-3 Douglassville
 Warren, Clara Mae; A&S-1 Winona
 Warren, Era Lene; A&S-3 Overton
 Warren, Herman; Ag-4 Tyler
 Warren, Jean C.; A&S-1 Tyler
 Warren, Minnie C.; A&S-1 Tyler
 Warren, Otho Jr.; Ag-1 Austin
 Washington, Alice; A&S-3 Terrell
 Washington, Charles; A&S-2 Calvert
 Washington, Charlie; A&S-1 Marlin
 Washington, Christine; A&S-3 Tenaha
 Washington, Dolores; A&S-2 Port Arthur
 Washington, Doris B.; A&S-1 Washington
 Washington, Eddie B.; A&S-5 Lyons
 Washington, Ethel; A&S-2 Beaumont
 *Washington, Garland; Ag-4 Dallas
 Washington, Georgia M.; A&S-4 Dallas
 Washington, Gloria D.; HE-1 Beaumont
 (2) Washington, Howie B.; HE-2 Cleveland
 Washington, Joyce; A&S-3 Dickerson
 Washington, Lorraine; Ind Ed-1 Marlin
 Washington, Lucy M.; A&S-4 Marshall
 Washington, Myrtle; A&S-4 Corsicana
 Washington, Phyllis; A&S-3 Lufkin
 Washington, Terrell; Eng-1 Denton
 Washington, Travis; Ag-4 Point
 (2) Washington, Virgil L.; A&S-4 Dickerson
 Washington, Vivian; HE-1 Port Arthur
 *Washington, Walter, B.; Engr-1 Austin
 Washington, William; Engr-1 Dallas
 Waters, James; Ag-1 Greenville
 Watkins, Helen Louise; A&S-5 Hempstead
 Watson, Cloceal C.; HE-4 Prairie View
 Watkins, Ulysses W.; A&S-1 Huntsville
 Watson, Eula Mae; NE-1 Galveston
 Watson, Jean M.; NE-4 Fort Worth
 Webb, Juanita V.; A&S-4 Chicago, Ill.
 Webber, Roscoe W. Jr.; Engr-1 Madisoville
 *Webber, Walter; A&S-2 Dallas
 Webster, Charles E.; A&S-1 Hearne
 Webster, Dorothy M.; A&S-4 Hearne
 *Wedgeworth, Alonzo; A&S-5 Mexia
 Wedgeworth, Henry J.; A&S-5 Gladewater
 Wells, Ella; Ind Ed-2 Baytown
 Wells, Harold Glenn; Ag-1 Howland
 Wells, Gwendolyn; HE-4 Prairie View
 Wells, Helen Fern; A&S-3 Terrell
 Wells, Joseph; A&S-1 Fort Worth
 Wells, Margaret; A&S-2 Tyler
 Wells, Mary A.; A&S-4 Baytown
 West, Annie Lois; A&S-2 Houston
 West, Mable Lee; Ind Ed-1 Hempstead
 West, Zenobia E.; A&S-3 Pittsburg
 (2) Westbrook, Jewelene; A&S-3 Buna
 Westbrook, Lillian F.; A&S-1 Houston
 Wheatley, Alfred G.; A&S-3 Malakoff
 Westbrook, Verland; Ind Ed-3 Willis
 Wheatfall, Lorene M.; Ind Ed-2 Baytown
 Whitaker, Forest Jr.; A&S-1 Longview
 Whitaker, Mary L.; A&S-1 Nacogdoches
 *White, Charles W.; A&S-4 Austin
 *White, Clarence W.; Engr-1 Houston
 White, Cora Lee; NE-1 Houston
 White, Dorothy Jean; A&S-4 Beaumont
 White, Lillian L.; A&S-1 San Antonio
 White, Roena; Ind Ed-3 Choice
 White, Theresa; A&S-3 Beaumont
 White, Webster L.; A&S-3 Palestine
 Whitehead, Benny W.; A&S-1 Hearne
 Whitehouse, Betty; A&S-4 Beaumont
 Whiteside, Willie C.; A&S-1 Vernon
 Whitefield, Doris M.; A&S-2 Oakwood
 (2) Whitefield, Wyrine; A&S-1 Oakwood
 Whiting, Milton; Ag-3 Washington
 Whiting, Tommy C.; A&S-2 Washington
 Whiting, Waymon W. Jr.; Engr-2 Washington
 Whitley, Rose M.; A&S-1 Washington
 (2) Wickliffe, Raymond; A&S-3 Liberty
 *Wickliffe, Robert; A&S-4 Port Arthur
 Wilborn, Doris; Ind Ed-1 Wellborn
 Wilcoits, Earline; A&S-4 Dallas
 Wilborn, Doris S.; A&S-3 Prairie View
 Wilcox, Philbert R.; A&S-2 Fort Worth
 Wilhite, Adell J.; NE-1 Terrell
 Wilkerson, Eliza; A&S-4 Cameron
 Williams, Alma A.; A&S-4 Granger

- Edwards, Addie Marshall, Huntsville, 2
 Edwards, Effie Robinson, Austin, 2
 Edwards, Mamie L., Yoakum, 2
 Ellis, Grace Naomi, La Marque, 1
 Estelle, Annie B., Brenham, 1
 Everett, Clarice Maderia, Levelland
 Esther, George J., Galveston, 1
 Fanuel, Lenora, Galveston, 2
 Farris, Henry L., Navasota, 1
 Fields, Opal P., Jacksonville, 1
 Flournoy, Laura E., Greenville, 1
 Fields, Vernon Cunia, Calvert, 2
 Floyd, Gertrude, Fayetteville, 1
 Ford, Clara Belle, Navasota, 1
 Ford, Opal Undean, James, 2
 Forston, Julius F., Georgetown, 2
 Forward, Doris Jorinda, Kirbyville, 1
 Freeman, Letha C., Pittsburg, 1
 Foster, Fannie Wynese, Galveston, 1
 Freeman, Lucile Walton, Austin, 1
 Fowler, Nina Virginia, Greenville, 1
 Flower, Thaddeus P., Loraine, 1
 Frank, Ozni B., Caldwell, 1
 Friddie, Gardner, Wortham, 1
 Gallagher, Emma J., Texarkana, 1
 Gafford, Ethel V., Caldwell, 1
 Garrett, Araheyan, Lubbock, 1
 Foster, Juanita L., Greenville, 1
 Gilbert, Ethelyn Austerine, Lufkin, 1
 Freeman, Patsy Ruth, Greenville, 1
 Fudgen, Wendell P., Greenville, 1
 Furch, Noble Branche, Greenville, 1
 Garrett, Lavada F., Lubbock, 1
 Gates, Bertha Lee, Caldwell, 1
 Gay, Cordelia R., Pittsburg, 1
 Gayner, Novel Wilburn, Texarkana, 1
 Giles, Bessie Mae, Yoakum, 2
 Giles, Willie Mae, Yoakum, 2
 Goodly, Bessie L., Bryan, 2
 Goodon, Lillie Mae, Galveston, 1
 Govan, Reuben S., Giddings, 2
 Govan, Zenobia, Giddings, 1
 Graves, Shedrick, Giddings, 1
 Gray, Gladys Z., Pittsburg, 2
 Gray, Novelia E., Palestine, 1
 Grays, Eddie Mae, Bryan, 2
 Grays, Tee Lindsey, Bryan, 2
 Green, Alma R., Austin, 1
 Green, Henrietta D., Yoakum, 2
 Green, Henrietta Smith, Cuero, 1
 Griffin, Lila Huntsman, Lubbock, 1
 Griffin, Louis G., Lubbock, 1
 Gundy, Carrie M., Greenville, 1
 Hall, Julia Woods, Galveston, 1
 Hallman, Maudene Orr, Corsicana, 1
 Hamilton, Neiphus R., Pittsburg, 2
 Hall, Bama T. J., Prairie View, 1
 Hannah, Mary Jane, Galveston, 1
 Harden, E. L., Giddings, 1
 Harden, Lois J., Corsicana, 1
 Harper, Jessie A., Cuero, 1
 Harris, A. D., Galveston, 1
 Hashaway, Connie Mae, Pittsburg, 1
 Hatch, Ollie, Prairie View, 1
 Hatch, Shellie L., Prairie View, 1
 Hatchett, Pauline J., Prairie View, 2
 Hawkins, Gertrude B., Navasota, 1
 Hawkins, James H., Prairie View, 2
 Henderson, Massa Lunn, Prairie View, 1
 Hodge, Julia W., Rockdale, 1
 Holiday, Ida Marie, Prairie View, 1
 Hopkins, Albert G., Galveston, 1
 Harrison, Thelma, Caldwell, 1
 Haskin, Ozell L., Prairie View, 1
 Hawkins, Leila Lawson, Brenham, 1
 Heard, Mable E., Brenham, 1
 Henderson, Mattie Tean, Texarkana, 2
 Henderson, Rosa Lee, Lubbock, 1
 Henderson, Walter Dell, Galveston, 1
 Henry, Arnett A., Navasota, 2
 Henry, Willie Rae, Prairie View, 2
 Herren, Katherine A., Prairie View, 1
 Hicks, Lula M., Diboll, 1
 Hicks, Vernetta
 Hiner, Annie B., Pittsburg, 1
 Hodge, Helen L., Austin, 2
 Hogan, Gladys S., Brenham, 1
 Holiday, Ida Marie, Prairie View, 2
 Hopkins, Albert G., Galveston, 1
 Houston, Thomye Ricks, Taylor, 1
 Houston, Zula Mae, Cuero, 2
 Hubbard, Ruby, Corsicana, 1
 Howard, Agnes Marie, Texarkana, 1
 Howell, Callis E., Prairie View, 1
 Hudson, Katherine Bell, Texarkana, 1
 Hudson, Marie E.
 Hudson, Marie Thomas, Corsicana, 1
 Hutchinson, Irma J., Palestine, 1
 Iring, Hattie Cleo, Texarkana, 2
 Jackson, Amma W., Palestine, 1
 Jackson, Corine F., Texarkana, 2
 Jackson, Louise R., Giddings, 2
 Jackson, Exie Lee P., Prairie View, 1
 Jackson, John M., Palestine, 1
 Jackson, Ruthy M., Palestine, 1
 Jacquo, Samuel, Galveston, 2
 James, Laura A., Cuero, 1
 Jameson, Frances S., Caldwell, 1
 James, Annie L., Yoakum, 1
 Jarvis, Dorelia A. B., Prairie View, 1
 Jefferson, Maxine A., Galveston, 2
 Jefferson, Joanna, Prairie View, 2
 Jerushia, Brooks, Diboll, 1
 Jerve, Willie, Diboll, 1
 Johns, Edward E., Navasota, 2
 Johns, Jewell D., Austin, 1
 Johnson, A. D., Pittsburg, 1
 Johnson, Beulah M., Taylor
 Johnson, Blanche T., Cuero, 1
 Johnson, Charles Ruby, Diboll, 1
 Johnson, Dilla Ann, Pittsburg, 1
 Johnson, G. M., Corsicana, 1
 Johnson, Gracie M., Galveston, 1
 Johnson, Joe D., Galveston, 2
 Johnson, Mable L., Palestine, 1
 Johnson, Leola, Lubbock, 1
 Johnson, Napoleon, Pittsburg, 2
 Johnson, Sophia M., Pittsburg, 1
 Jones, Alice E., Giddings, 1
 Jones, Earl S., Galveston, 2
 Jones, Emma R., Texarkana, 1
 Jones, Florence V., Pittsburg, 1
 Jones, General L., Pittsburg, 2
 Jones, Gertrude A., Cuero, 2
 Jones, Lowell R., Cuero, 2
 Jones, Leoma S., Prairie View, 1
 Jones, Mildred L., Pittsburg, 2
 Jones, Minnie B., Texarkana, 2
 Jones, Ollie Cleo, Prairie View, 1
 Keel, Alberta, Texarkana, 2
 Kearney, Ella Mae, Galveston, 1
 Kelley, Nellie B., Yoakum, 1
 Kelley, Nellie B., Tuna, 1
 Kemple, Ora L., Bryan, 1
 Kerl, Georgia Lela, Palestine, 1
 Kerl, Vester M., Navasota, 2
 Kerr, Louise, Lubbock, 1
 Kerr, George W., Lubbock, 1
 Killyon, Ozzie Lee, Pittsburg, 1
 King, Larremore R., Austin, 1
 King, Hubert, Pittsburg, 1
 Lacy, Arizona J., Corsicana, 2
 Lacy, Myrtle, Giddings, 1
 Lampkin, Ella E., Diboll, 2
 Lake, Margaret L., Galveston, 1
 Lampkin, W. H., Diboll, 1
 Langrum, Mabel P., Diboll, 2
 Langston, Estella H., Texarkana, 1
 Lawrence, Mada Ethyl, Texarkana, 2
 Lee, Escar R., Navasota, 1
 Lee, Dorothy W., Pittsburg, 1
 Lester, Lorena J., Pittsburg, 2

- Lewis, Larcie L., Bryan, 2
 Lewis, Inez G., Palestine, 1
 Lewis, Margie N., Navasota, 2
 Love, Marguerite A., Corsicana, 1
 Luster, Lessie B., Texarkana, 2
 Lynn, Eartha Mae, Pittsburg, 2
 Malone, Spirling F., Rockdale, 1
 Marshall, Zenobia H., Corsicana, 1
 Mason, Elijah, Galveston, 1
 Mathis, Emmaline B., Palestine, 1
 Mayfield, Clarence M., Diboll, 1
 Mayo, Pearl, Cuero, 1
 McAllister, E. E., Corsicana, 1
 McClasier, Mary, Corsicana, 1
 McClellan, Mary A., Palestine, 1
 McDonald, Nellie P., Palestine, 1
 McGuire, Jackson LeRie B., Jasper, 1
 McNeil, Ernestine, Diboll, 1
 McMullen, Bertha W., Corsicana, 1
 Mack, Mary F., Brenham, 1
 Madison, Birdie J. M., Navasota, 1
 McMahan, Helen L., Jasper, 1
 Marshall, Z. H., Corsicana
 Martin, Heslis E., Diboll, 1
 Mason, Elijah Jr., Galveston, 1
 Mathis, Alma Ree, Diboll
 Mathis, Thomas Luther, Diboll, 1
 Mathis, Vitina E., Diboll, 1
 Mayes, Ruth Meeks, Austin, 1
 Meachum, Oattie Mae, Navasota, 1
 Meador, Florence Odalee, Yoakum, 1
 Melton, Flora Deen, Diboll
 Miller, Fannie Mae, Palestine, 1
 Montana, Myrtle Lillian, Prairie View
 Montgomery, Lula Bell, Rockdale, 1
 Moore, Arie S., Caldwell, 1
 Moore, Blanche Carter, Greenville, 1
 Moore, Bireline Jacqueline, Galveston,
 Moore, Cleolar Stykes, Giddings, 1
 Moore, Frankie Lee, Rockdale, 1
 Taylor, 1
 Moore, Elsie M., Prairie View, 1
 Moore, Julia Deborah, Texarkana, 1
 Moore, Nellie Ruth, Texarkana
 Moore, Rutha M., Giddings
 Moore, Odessa Equilla, Caldwell, 1
 Morgan, Cuetta Easley, Palestine, 1
 Morgan, Geneva McKinney, Galveston, 1
 Moses, Mabel Duval, Prairie View
 Moses, Inabel Duval, Brenham, 1
 Mosley, Canzetta R., Prairie View, 1
 Bryan, 1
 Mosley, Eva Jewel, Pittsburg
 Moseley, Frederick A., Prairie View, 1
 McMullen, Bertha
 Muldrew, Esther E. F., Texarkana
 Murphey, Rosena, Diboll, 1
 Myers, Rosa Marie, Palestine, 1
 Nathan, Norman, Galveston, 1
 Neal, Venola, Bryan, 1
 Newton, Nancy Bernell, Bryan
 Nickerson, Eva R., Navasota, 1
 Ocheltree, Lorraine, Prairie View
 Orr, Christine Ludell, Corsicana
 Owens, Addie Pearl, Taylor, 1
 Rockdale, 1
 Owens, Frank Williams, Taylor, 1
 Rockdale, 1
 Owens, Isaac William, Greenville, 1
 Owens, Thay Myrtle, Bryan, 1
 Owens, Lillian Johnson, Greenville, 1
 Pace, Wilma Owens, Prairie View, 1
 Padgett, Myrtle D., Corsicana, 1
 Page, Hattie Bryant, Jasper, 1
 Palmer, Lydia C., Rockdale, 1
 Parker, Lillie Jones, Diboll
 Parish, Jessie Lee, Prairie View
 Payne, Lucy Corean, Lubbock, 1
 Pennie, Zeta Lorene, Lubbock, 1
 Peterson, Alandrus Alexander, Diboll, 1
 Peterson, Atoy Ford, Bryan, 1
 Peterson, Lillian Earl, Giddings, 1
 Phillips, Della Josephine, Austin, 1
 Petty, Ernice Alveretta, Lubbock, 1
 Pigford, Ethel Bell, Austin, 1
 Pleasant, Lureater Beatrice, Yoakum, 1
 Cuero, 1
 Pleasant, M. E., Corsicana, 1
 Poole, Betty Gwendolyn, Austin, 1
 Poole, Gus Travis, Navasota
 Pollard, Ethel B., Texarkana
 Pouges, Dora Dickerson, Pittsburg
 Powell, Jimmie Dee, Corsicana
 Powell, Marguarite Carter, Prairie View, 1
 Powell, Maurice, Lubbock, 1
 Powell, Narretta, Lubbock, 1
 Preston, Oda Vee, Prairie View, 1
 Rambo, Domingo H., Greenville, 1
 Randle, Ogn O., Prairie View, 1
 Rason, Davis L., Corsicana, 2
 Raven, Johnnie M., Brenham, 1
 Redden, Beatrice E., Prairie View, 1
 Reed, Ludie K., Pittsburg
 Reid, Mildred J., Galveston, 2
 Reynolds, Nellie E., Pittsburg, 2
 Rhodes, Jessia M., Corsicana, 2
 Richards, Minnie J., Diboll
 Richardson, James, Galveston, 2
 Rivers, Ariethia, Caldwell, 1
 Roach, Dorothy J., Palestine, 2
 Roberson, Pauline E., Pittsburg, 2
 Robinson, Freeman, Corsicana
 Robinson, Lizzie, Corsicana
 Robinson, Maurine S., Palestine, 2
 Rogers, Hollie M., Pittsburg
 Rogers, Oland G., Pittsburg
 Ross, Annie M., Corsicana
 Ross, Exia I., Corsicana
 Ross, Icie R., Jasper, 1
 Rowe, Vashti M., Prairie View
 Sadberry, Horatio E., Caldwell, 1
 Sadberry, Jewel C., Austin
 Sadberry, Sylvia S., Bryan
 Salone, Jewelene R., Austin, 1
 Sanders, Gladys C., Prairie View, 1
 Sanders, Ruth H., Yoakum
 Sansom, Susie M., Taylor, 1
 Sauls, Mabel, Taylor, 1
 Sayles, Ella S., Lubbock, 1
 Sayles, Minnie A., Lubbock, 1
 Sayles, Para L., Lubbock, 1
 Scales, Lydia M., Austin
 Scales, Olivia G., Greenville, 1
 Scales, Verniece M., Palestine, 2
 Schuler, Lillie M., Yoakum
 Scott, Albert C., Pittsburg, 1
 Scott, Edward W., Navasota
 Scott, Jerome L., Jasper, 1
 Seale, Erma, Jasper, 1
 Shaw, Lottie G., Prairie View, 1
 Shaw, Oddie L., Prairie View, 1
 Shaw, McLloyd, Prairie View, 1
 Shepard, Gertie E., Prairie View
 Sheffield, Lena M., Lubbock, 1
 Shelby, Laura L., Brenham, 1
 Sheppard, Maggie M., Bryan, 1
 Shiloh, James H., Galveston, 2
 Shipman, Ethel L., Bryan, 1
 Sibley, Inez S., Diboll, 2
 Simmons, Floyd S., Galveston
 Simmons, Bertha M., Greenville, 1
 Simmons, Booker T., Jasper, 1
 Simmons, Lillie M., Diboll, 2
 Simmons, Ruby L., Diboll, 2
 Simms, Loma R., Prairie View, 1
 Simon, Ira, Galveston, 2
 Simpson, Johnnye S., Giddings
 Singletary, Willie L., Palestine, 2
 Singleton, Calvin C., Galveston, 1
 Singleton, John R., Lubbock, 1

- Skillern, Ellis A., Diboll, 1
 Skillern, Marie, Diboll, 1
 Skillern, Vivian, Diboll, 1
 Smith, Alice F., Yoakum, 1
 Smith, Clara B., Prairie View
 Smith, Crezetta M., Prairie View, 1
 Smith, Doreath M., Pittsburg
 Smith, Dora L., Austin, 1
 Smith, Eudora A., Caldwell, 1
 Smith, Flora J., Taylor
 Smith, Lucinda C., Palestine, 2
 Smith, Mantle L., Prairie View, 1
 Smith, Merl I., Texarkana, 2
 Smith, Olivia B., Lubbock, 1
 Smith, Ruth E., Pittsburg
 Smith, Tula A., Brenham, 1
 Smothers, Alice, Corsicana, 2
 Smothers, Dorphenia G., Pittsburg, 2
 Smothers, James W., Corsicana
 Smythe, Eloise, Greenville, 1
 Sneed, Christine, Navasota, 1
 Snell, Madgeleene, Prairie View, 1
 Solomon, Ruth P., Brenham, 1
 Sparks, Willie M., Corsicana
 Spencer, Cecil E., Greenville, 1
 Spriggs, Samantha, Navasota
 Starks, Anita M., Austin
 Steen, Mae B., Austin, 2
 Stepp, Tommie E., Taylor, 1
 Steward, Arsula, Pittsburg, 1
 Stewart, Garrett P., Prairie View, 2
 Stewart, Jercile B., Pittsburg
 Strickland, Willie L., Pittsburg, 1
 Strickland, Ida J., Pittsburg, 1
 Stubblefield, Deloris, Bryan, 1
 Summers, Vashti T., Prairie View, 2
 Swanson, Annie P., Palestine, 2
 Swisher, Vera B., Austin
 Talley, Eddie L., Prairie View, 1
 Tarrow, Edna E., Bryan, 1
 Tarver, Durham, Palestine, 2
 Tatum, Charles E., Lubbock, 1
 Taylor, Catha M., Pittsburg
 Taylor, Darthwla L., Prairie View, 1
 Taylor, Floyd D., Austin
 Taylor, Lena M., Pittsburg
 Taylor, Valeria Z., Austin
 Taylor, Warren J., Galveston
 Thomas, Albesta B., Giddings, 2
 Thomas, Carrie B., Galveston, 2
 Thomas, Ethel, Texarkana
 Thomas, Mable, Prairie View
 Thomas, Reid R., Galveston, 1
 Thomas, Warren, Galveston
 Thompson, Ella M., Texarkana
 Thompson, Gladys D., Diboll, 1
 Thornton, Leola, Lubbock, 1
 Toliver, Ella J., Prairie View
 Tubbs, Geretha B., Palestine, 2
 Turner, Angeline C., Pittsburg, 1
 Turner, Ola M., Pittsburg, 1
 Tukes, Viola M., Jasper, 1
 Tyson, Curtis S., Texarkana
 Upshaw, Seretha P., Austin, 1
 Van Dyke, Isella R., Austin
 Van Dyke, Juanita M., Austin
 Van Liew, Mercer E., Galveston, 1
 Vance, Helen J., Prairie View, 1
 Walker, Lummie M., Corsicana, 2
 Walton, Jessie M., Bryan, 2
 Walton, Theresa M., Caldwell, 1
 Walton, Wilma E., Palestine, 2
 Walker, Edna R., Lubbock, 1
 Wartham, Lillie B., Lubbock, 1
 Wash, Mary L., Texarkana, 1
 Washington, Alfred, Galveston, 2
 Washington, Elias B., Prairie View, 1
 Washington, Margurite S., Cuero
 Washington, O. H., Texarkana, 1
 Watson, Juanita I., Texarkana
 Webb, Johnnie Mae, Prairie View
 Brenham, 1
 Wedgeworth, Emmitt B., Prairie View, 1
 Wesley, Madison Kay, Texarkana
 West, Blumer Mae, Pittsburg
 White, Bessie Cain, Prairie View
 White, Velmer Mae, Navasota
 Whitlow, Aldina L., Texarkana, 1
 Whitaker, Helen Juanita, Greenville, 1
 Wilborn, Mable S., Giddings, 1
 Wilburn, Vera O., Corsicana
 Wilhite, Marcella, Taylor, 1
 Rockdale, 1
 Williams, Ardie Mae, Taylor, 1
 Rockdale, 1
 Williams, Bernice Alma, Corsicana
 Williams, Dollie, Prairie View, 1
 Williams, Erna B., Austin, 1
 Williams, Exie V., Corsicana, 1
 Williams, Irene Lee, Pittsburg, 1
 Williams, James A., Greenville, 1
 Williams, Malinda Faye, Corsicana
 Williams, Mattie Roberta, Palestine, 1
 Williams, Ruby Lee, Navasota
 Williams, Ruby Olivia, Greenville, 1
 Williams, Vallerie H., Pittsburg, 1
 Williams, Willie E., Navasota
 Wilson, Annie Mae, Caldwell, 1
 Wilson, Espanola, Palestine, 1
 Wilson, Peggy Jo, Lubbock, 1
 Wilson, Vernice, Giddings
 Winfield, Marcellene Clark, Diboll, 1
 Winston, Mary Frances Colman, Austin, 1
 Woods, Emmie Lorine, Brenham, 1
 Woodard, Maggie L., Rockdale, 1
 Workman, Fannie Lee, Austin
 Wright, Hazel Juanita, Austin, 1
 Wynn, Mollie M., Navasota
 Prairie View, 1
 Wynne, Rohelia J., Pittsburg
 Wysingle, Verna Mae, Galveston
 Yeldell, Etta M., Corsicana, 1

PRAIRIE VIEW TRAINING SCHOOL, 1952-53

SYMBOLS: Numerals—Age: PP—Pre-Primer; G1—First Grade; G2—Second Grade;
 G3—Third Grade; G4—Fourth Grade; G5—Fifth Grade; G6—Sixth Grade; G7—Seventh
 Grade; G8—Eighth Grade; G9—Ninth Grade; G10—Tenth Grade; G11—Eleventh Grade;
 G12—Twelfth Grade; M—Male; F—Female.

Abram, Edward, 7, G2, M
 Adams, Denny, 6, G1, M
 Alexander, Romeo, 18, G11, M
 Anderson, Alma J., 10, G4, F
 Anderson, Annie L., 9, G4, F
 Anderson, Isaiah, 8, G3, F
 Anderson, Melvin, 13, G8, M
 Anderson, Willie L., 17, G9, M
 Austin, Wilbert, 11, G8, M

Baily, Eddie R., 9, G4, M
 Baily, Ethel, 7, G2, F
 Barnes, Jessie, 6, G1, M
 Barnes, Jessie M., 13, G2, F
 Barnes, Joye J., 13, G4, F
 Barnes, Robert L., 11, G4, M
 Barnes, Sammie L., 8, G4, M
 Bean, Albert, 16, G10, M
 Bean, Amye V., 15, G9, M

- Bean, Dale, 12, G5, M
 Bean, James, 10, G4, M
 Bean, Richard, 7, G1, M
 Bennett, Alfred, 17, G10, M
 Bennett, Clyde, 6, G2, M
 Bennett, Elizabeth, 16, G11, F
 Bennett, Eula J., 7, G3, F
 Bennett, Glodine, 15, G10, F
 Bennett, Iris J., 13, G7, M
 Bennett, Robert, 8, G2, M
 Bennett, Walter, 12, G6, M
 Biggon, Willie J., 11, G4, F
 Biggon, Wilmer, 11, G4, M
 Black, Louis G., 9, G6, M
 Broughton, Darlene, 11, G7, F
 Broughton, Ogie, 15, G11, M
 Brown, Ada, 6, G1, F
 Brown, Ida, 16, G11, F
 Brown, Ashland, 7, G3, M
 Brown, Doris J., 11, G7, F
 Brown, Georgie, 13, G9, M
 Brown, John, 8, G1, M
 Brown, John, 15, G9, M
 Brown, Jonel, 15, G12, M
 Brown, Marshall, 15, G9, M
 Brown, Ruth, 10, G3, F
 Burks, Dorothy, 14, G8, F
 Butler, Albert, 15, G6, M
 Butler, Birdie, 6, G1, F
 Butler, Mary, 7, G1, F
 Canly, Virtie M., 9, G4, F
 Calloway, Gloria, 12, G7, F
 Calloway, Shirley, 7, G4, F
 Clark, Alice, 7, G1, F
 Clark, Easter, 7, G1, F
 Clark, Henry, D., 11, G5, M
 Clark, Lena Mae, 11, G4, F
 Clark, Mae, 9, G1, F
 Clark, Osborn, 18, G11, M
 Clark, Pansy, 15, G9, F
 Clark, Weston, 10, G2, M
 Daily, Janet, 16, G11, F
 Day, Juanita, 13, G8, F
 Deese, Bobbie, 10, G4, M
 Dickerson, John, 13, G9, M
 Dickerson, Robert, 8, G4, M
 Ditto, Myra, 15, G12, F
 Dooley, Lois M., 10, G5, F
 Evans, Clyde, 16, G11, M
 Felder, Lebraska, 18, G6, M
 Fry, Francis, 12, G7, M
 Fuller, Edwinlyn, 11, G8, F
 George, Annie M., 8, G3, F
 George, Rita J., 8, G3, F
 Gray, Bessie, 14, G5, F
 Gray, Richmond, 15, G4, M
 Harnsberry, Winston, 9, G4, M
 Harvey, Jacqueline, 6, G2, F
 Haynes, Lovie J., 16, G12, F
 Henry, John R., 10, G7, M
 Henry, Martha, 16, G12, F
 Herndon, Ann, 7, G4, F
 Herndon, Marie, 6, G1, F
 High, Wanda, 6, G1, F
 High, Yolanda, 8, G3, F
 Hill, Marie C., 6, G2, F
 Hornsberry, Waldo, 11, G6, M
 Hunter, Billie J., 15, G10, F
 Jackson, Calvin E., 9, G4, M
 Jackson, Emanuel, 6, G1, M
 Jackson, Gloria, 8, G2, F
 Jackson, Joseph, 9, G3, M
 Jeffe, Jacqueline, 6, G1, F
 Jeffery, Carl, 13, G8, M
 Jeffery, Glenn F., 9, G4, M
 Jeffery, Robert, 15, G8, M
 Johnson, Bernard, 16, G12, M
 Johnson, Booker T., 9, G5, M
 Johnson, Theodore, 8, G3, M
 Jones, Gayla, 12, G9, F
 Kilpatrick, Hortense, 11, G7, F
 Kilpatrick, Madison J., 9, G4, M
 Knotts, Lawrence, 11, G6, F
 Knowles, Arthur, 8, G3, M
 Knowles, Dorothy, 12, G6, F
 Knowles, Oscar, 9, G2, M
 Lawson, Theodora, 8, G3, F
 Lee, Linda, 8, G4, F
 Love, Carolyn, 6, G1, F
 McDow, James W., 9, G5, M
 McMillan, Lemmon, 8, G3, M
 McMillan, Robert, 7, G2, M
 Montgomery, Lois, 13, G9, F
 Muse, Benjamin J., 6, G2, M
 Murdock, Horace, 15, G9, M
 Muse, Charles, 6, G1, M
 Muse, Delores, 13, G8, F
 Muse, Edgar, 9, G2, M
 Muse, Erma J., 13, G7, F
 Muse, Gloria, 17, G10, F
 Muse, Lillian, 17, G11, F
 Muse, Mary L., 9, G3, F
 Nicks, Fredric, 17, G12, M
 O'Banion, Charles, 7, G3, M
 Owens, Carolyn, 8, G4, F
 Owens, Henry, 9, G4, M
 Owens, Ross, 9, G3, M
 Pace, Cecil, 12, G6, F
 Pace, Royce, 13, G9, F
 Phillip, Cecelia, 14, G10, F
 Poindexter, Alfred, 10, G5, M
 Poindexter, Bettie, 8, G3, F
 Poole, Robert, 7, G1, M
 Randall, James, 13, G9, M
 Randall, Jounie, 9, G5, M
 Reed, Carrie, 14, G10, F
 Reed, Ester Beel, 13, G7, F
 Reed, Irving, 19, G11, M
 Reed, Jack A., 11, G6, M
 Reed, Ollie, 17, G10, M
 Reynolds, Willie, 18, G11, M
 Richards, Bryant, 18, G11, M
 Richardson, Darlene, 12, G7, F
 Richardson, Robert, 18, G12, M
 Rucker, Robert C., 19, G10, M
 Sams, Rosetta, 7, G3, F
 Sarazen, John IV, 6, G1, M
 Santee, Clarence, 6, G1, M
 Santee, Clara, 15, G8, F
 Santee, James, 11, G5, M
 Santee, Nathaniel, 8, G2, M
 Scott, Bobbie, 7, G1, F
 Scott, Elmer Lee, 11, G5, M
 Scott, Ivory Dell, 17, G11, F
 Scott, Hattie, 20, G12, F
 Scott, Hiawatha, 20, G12, M
 Shepherd, Carl, 17, G9, M
 Shepherd, James, 7, G2, M
 Shepherd, Jessie, 11, G8, M
 Shepherd, Melvin, 15, G8, M
 Shepherd, Sealy M., 9, G4, F
 Simon, Louis, 7, G1, M
 Simon, Loreta, 11, G3, F
 Simon, Mary D., 9, G2, F
 Simon, Orelia, 16, G7, F
 Simon, Rayford, 14, G6, M
 Simmons, John, 6, G2, M
 Singleton, Helen, 10, G4, F
 Singleton, Paul, 9, G3, M
 Singleton, Rayford, 14, G6, M
 Smith, Wendell, 8, G3, M
 Stickney, Janice L., 11, G7, F
 Stickney, William, 7, G2, M
 Tate, Jessie Mae, 8, G3, F
 Thomas, Emmie, 6, G1, F
 Thomas, Ephrain, 13, G8, M
 Thomas, Joe Edward, 13, G8, M
 Thomas, Mildred, 10, G4, F
 Thompkins, Evelyn J., 10, G4, F
 Tisdell, Harold, 12, G6, M
 Toler, Clara, 17, G9, F
 Toler, Constance, 14, G9, F

Tolder, Bernice, 10, G5, F
 Tolder, Charles, 12, G7, M
 Tolder, Raymond, 8, G3, M
 Tompkins, Irene, 13, G8, F
 Tompkins, Martha, 12, G7, F
 Tompkins, Roland, 7, G1, M
 Turner, Beatrice, 8, G3, F
 Turner, Lily, 7, G2, F
 Turner, Levi, 17, G8, M
 Vandurin, Elmer, 11, G3, M
 Walker, Arthur, 15, G8, M
 Walker, Charles, 10, G5, M
 Walker, Edwin, 17, G10, M
 Walker, George, 9, G3, M
 Walker, Richard, 17, G8, M
 Ward, Clifford P., 10, G5, M
 Ward, Nolan, 7, G3, M
 Webb, Earnestine, 12, G8, F
 White, Mary L., 13, G9, F
 White, Waymon, 15, G10, M
 Williams, Alvin J., 8, G3, M
 Williams, Angla, 11, G4, F
 Williams, Bessie, 15, G9, F
 Williams, Bobbie, 12, G6, F

Williams, Deatrous, 17, G11, F
 Williams, Elijah, 16, G8, M
 Williams, Helen, 8, G3, F
 Williams, Issinetti, 13, G6, F
 Williams, Joan, 9, G1, F
 Williams, John C., 10, G5, M
 Williams, Joyce, 11, G2, F
 Wilson, A. F., 13, G6, F
 Wilson, Annie L., 11, G4, F
 Wilson, Carolyn, 7, G2, F
 Wilson, Jessie, 15, G10, M
 Wilson, Johnny, 16, G9, M
 Wood, Barbara, 6, G1, F
 Wood, Curtis A., 10, G5, M
 Woods, Henrine, 8, G4, F
 Woods, Lillian, 12, G8, F
 Woods, Sanderson, 11, G7, M
 Woodard, Ester, 7, G1, F
 Woodard, Glory Jean, 11, G2, F
 Woodard, Perry, 8, G1, M
 Wyatt, James, 8, G2, M
 Yell, Charles, 8, G3, M
 Yell, Gilbert, 12, G6, M
 Yell, Marvin, 10, G4, M

NURSERY SCHOOL ENROLLMENT

Regular Session 1952-53

Symbols: F—Female; M—Male; Figures— Age

Black, Barbara A., F, 2
 Engram, Lewis, M, 3
 Engram, Peggy A., F, 5
 Hamilton, Edward, M, 4
 Hamilton, Larry, M, 3
 Herndon, Jacquelyn, F, 4
 Hill, Eleanor, F, 3
 Lee, Betty Dale, F, 4

McKinnis, Hugh Jr., M, 4
 O'Banion, Harriet, F, 5
 Poindexter, P. Maurie, F, 5
 Poindexter, A. Bruce, M, 4
 Thomas, Simmons, M, 3
 Tompkins, Beverly J., F, 2
 Williams, Lawrence, M, 4
 Woods, Craig, M, 3
 Woolfolk, George R., M, 3

NAME OF GRADUATES

January 1952

Allen, Irma Faye — B.A.	English
Anderson, Emma Lee — B.S.	Home Economics
Amos, Evelyn Louise — B.S.	Physical Education
Anderson, Johnnie Lee — B.A.	Sociology
Armstrong, Damon T. — B.S.	Agriculture
Atkinson, Robert A. — M.S.	Administration and Supervision
Balkey, Cleotha B. — B.A.	Sociology
Bell, Ruthie Mae — B.A.	Music
Bellinger, Dorothy Lee — B.S.	Elementary Education
Booker, Herman — B.S.	Agriculture
Branch, June — B.S.	Elementary Education
Brown, Edna Mae — B.A.	Music
Burrell, Almeda Roberts — B.S.	Home Economics
Cameron, Mae Frances — B.S.	Home Economics
Cauley, Picksey L. — M.S.	Education
Chandler, Billie Eugene — B.A.	Sociology
Clifton, Harold Aaron — B.A.	History
Coleman, Mae Earlester — B.A.	Music
Dawsey, Clara Marie — B.A.	English
Dean, Frederica F. — B.A.	Sociology
Dorsey, Archie E. — B.S.	Agriculture
Fennell, Annie B. — M.E.d	Education
Ford, Roland — B.S.	Industrial Education
Garner, Audrey May — B.S.	Home Economics
Goudeaux, Bertha Louise — B.S.	Biology
Goynes, Theron H. — B.A.	Business Administration
Green, Alice M. McCloud — B.S.	Home Economics
Haley, Augustine Viola — B.A.	Sociology
Harrison, Raphael A. — B.S.	Industrial Education

Hollins, Lee Norman — B.S.	Industrial Education
Jones, John C. — B.S.	Physical Education
Mack, Vina E. Blocker — B.S.	Home Economics
Melton, Mary Theresa — B.S.	Biology
Poole, Gus Travis — B.S.	Agriculture
Randle, Lucy Louise — B.S.	Physical Education
Richardson, Ina Mae — B.A.	Business Administration
Scott, Annie M. — M.S.	Elementary Education
Shaw, Wesley — B.S.	Physical Education
Simpson, Veatrice V. — B.S.	Home Economics
Stern, Dorothy Mae — B.A.	Music
Stewart, John R. — B.S.	Biology
Tatum, Charles E. — B.A.	Business Administration
Taylor, Dolores C. — B.S.	Biology
Thomas, Donald Lee — B.S.	Industrial Education
Thomas, Earline Pettie — B.A.	Music
Wagner, Ida B. — B.A.	Business Administration
Waites, Ethel M. Senegal — B.A.	Business Administration
Wallace, Thelma B. — M.Ed.	Elementary Education
Watson, Pauline D. Payne — B.A.	Sociology
Williams, Serlina D. — B.S.	Biology
Williams, Willie Ernestine — B.S.	Education
Wilson, Henry F. — M.Ed.	Administration and Supervision
Woods, Hazel — B.A.	History
Young, Bettye Jeanne — B.A.	Music

CERTIFICATES OF PROFICIENCY

January 1952

Bennett, Frank R.	Electrical Repair and Maintenance
Griggs, Vernice L.	Tailoring and Garment Making

SUMMARY OF DEGREES, DIPLOMAS, AND CERTIFICATES

January 1952

	Male	Female	Total
Bachelor of Arts	5	10	15
Bachelor of Arts in Music	0	6	6
Bachelor of Science	3	6	9
Bachelor of Science in Agriculture	4	0	4
Bachelor of Science in Education	0	3	3
Bachelor of Science in Home Economics	0	7	7
Bachelor of Science in Industrial Education	4	0	4
Master of Arts	0	0	0
Master of Education	1	2	3
Master of Science	1	2	3
Trade Certificates	1	1	2
Total	19	37	56

NAME OF GRADUATES

May 1952

Adams, Geneva Mae — B.S.	Elementary Education
Adams, Mildred Sarah — B.S.	Elementary Education
Alexander, Lada Joyce — M.Ed.	Elementary Education
Alexander, Raulletti C. — B.A.	Music
Allen, John Wilson — B.S.	Industrial Education
Allison, Lena Mae — B.S.	Elementary Education
Armstrong, Lemuel N. — M.S.	Agricultural Economics
Arnic, Vera I. — B.A.	Business Administration
Austin, Mary Beadie — B.A.	Sociology
Banks, Fay Etta H. — B.A.	Music
Barlow, Woodrow — B.S.	Agriculture
Barrett, Artie Mae — B.S.	Home Economics
Batiste, George E. — B.S.	Industrial Education
Baugh, LaVerne C. — B.S.	Home Economics
Bedford, Alice Ona M. — B.S.	Biology

Biggs, Ermadine L. — B.S.	Home Economics
Bilton, Martha M. Simien — B.S.	Elementary Education
Blaak, Vernon R. — B.A.	Political Science
Bonner, Beulah Agnes — B.A.	Music
Bonner, Helen Doris — B.S.	Elementary Education
Booth, Billie Ruth — B.S.	Home Economics
Boson, Olevia Frances — B.A.	Business Administration
Bratcher, Vivian L. — B.S.	Home Economics
Brewer, Ramona L. — B.A.	Business Administration
Briscoe, Robert Sidney — M.Ed.	Administration and Supervision
Brooks, Abbie Lorene — B.S.	Elementary Education
Brooks, Altha Mae — B.A.	Business Administration
Brown, Effie Mae — B.S.	Home Economics
Buford, Irma Faye — B.S.	Elementary Education
Bunkley, Lonnie R. — B.A.	Political Science
Burleson, Melvin G. — B.S.	Agriculture
Cannon, Willie F. Jr. — B.S.	Physical Education
Carreathers, Mell Ruth — B.S.	Physical Education
Carrington, Reginald W. — B.A.	History
Carter, Willie James — M.Ed.	Administration and Supervision
Chandler, Timothy J. — B.S.	Industrial Education
Cheatham, Lillie Belle — B.S.	Elementary Education
Childress, Louis Jr. — B.A.	History
Clayborn, Jimmie Mae — B.S.	Home Economics
Clayborne, Dolores I. — B.S.	Elementary Education
Cole, Erma Shaw — M.A.	Sociology
Cole, Velma — B.S.	Elementary Education
Coleman, Allene A. — B.S.	Home Economics
Collins, Olera — M.S.	Elementary Education
Crawford, Willie Ann — B.S.	Elementary Education
Davis, Annie M. Garrison — B.S.	Home Economics
Davis, Johnnie — B.A.	Business Administration
Davis, Lela Mae — B.A.	Sociology
Davis, Milbrew — B.A.	Sociology
Dean, Don Relle — B.S.	Agriculture
Dillon, Ray D — B.S.	Physical Education
Downs, Charles F. —	Biology
DuPont, Mary Ruth — B.S.	Home Economics
Dupree, Alma — B.S.	Home Economics
Edwards, Annie Bernice — B.A.	English
Edwards, Ruth Joy — B.S.	Chemistry
Evans, McCoy — B.S.	Agriculture
Ewing, Onie Mae — B.S.	Elementary Education
Faine, Johnnie Mae — B.S.	Home Economics
Fields, Maxine — B.S.	Library Science Education
Finley, Ruth Evelyn — B.A.	Music
Flanagan, Claude C. — B.S.	Biology
Flowers, Hattie M. H. — M.S.	Elementary Education
Foley, Rosie Lee — B.S.	Elementary Education
Ford, Imogene — B.A.	Sociology
Franklin, Gazell — B.A.	Business Administration
Franklin, Perry Lee — B.S.	Agriculture
Franklin, Rebecca J. — B.S.	Education
Frederick, Austin — B.S.	Agriculture
Gamble, Doris Jean — B.S.	Elementary Education
Garrett, Ada Floyd — B.S.	Home Economics
Gee, Carolyn M. — B.S.	Elementary Education
Gibson, Dorothy Marie — B.S.	Home Economics
Gooden, Bessie E. — B.A.	Home Economics
Grace, Morris R. — M.Ed.	Music
Gray, Tommie Lee — B.S.	Administration and Supervision
Green, Verdia Lee — B.S.	Agriculture
Greene, David E. — B.A.	Home Economics
Greenwood, Arlene V. B.A.	Sociology
Grimes, Archie Nell — B.S.	Business Administration
Hall, Mary Joseph — B.A.	Biology
Hampton, Joe Willard — B.S.	Music
Harold, Cecil G. — B.S.	Biology
Harrell, Willie Gene — B.S.	Biology
Hartsfield, Erma Jean — B.S.	Physical Education
Harvey, Dorothy Jeanne — B.S.	Elementary Education
Hatcher, Bobbie Jean — B.S.	Elementary Education
Haywood, Harry H. — B.S.	Library Service Education
Henderson, Ezra Lee — B.A.	Physical Education
Henderson, Grace E. — B.A.	Business Administration
Hollis, Ida Mae — B.S.	Business Administration
Holloway, Cleotis B. — B.A.	Home Economics
Hooks, Carolyn F. — B.S.	Business Administration
Houston, Clemith J. — B.S.	Home Economics
Hubbard, Vivian E. — B.S.	Biology
Hynes, Harold L. — B.S.	Home Economics
	Mathematics

Jernigan, Lemmie Ruth — M.Ed.	Elementary Education
Johnson, Charles Ruby — B.A.	Music
Johnson, Consuella M. — B.S.	Home Economics
Johnson, Elvie Naomi — B.S.	Elementary Education
Johnson, Jessie Mae — B.S.	Elementary Education
Johnson, Lucille — B.S.	Elementary Education
Jones, Harvey D. — B.S.	Agriculture
Jordan, Lois Evelyn — B.A.	English
Kemp, Valasta V. — B.S.	Home Economics
Kyle, Joe F. — B.A.	Business Administration
Landers, Bennie Jr. — B.S.	Physical Education
Lawson, Jimmie Lee — B.S.	Home Economics
Lee, Joseph R. — B.S.	Biology
Lewis, Edna D. — B.A.	Business Administration
Lewis, Hubert Lee — B.A.	Business Administration
Loeb, Doris — B.S.	Biology
Love, Charles — M.Ed.	Administration and Supervision
Love, Doris Jeanne — B.S.	Home Economics
McAfee, Magdalene G. — B.S.	Home Economics
McDonald, Alma Jean — B.S.	Home Economics
McGough, Billie Joan — B.S.	Elementary Education
McNeil, Hester L. J. — B.S.	Home Economics
Mack, Emanuel — B.S.	Industrial Education
Martin, Sylvérine — B.S.	Elementary Education
Melton, Marian D. S. — M.Ed.	Home Economics
Merriwether, Louise E. — M.Ed.	Elementary Education
Meshack, Bettie Ruth — B.S.	Elementary Education
Miller, Dora Lee — B.A.	Business Administration
Milligan, Arthur Jean — B.A.	History
Mills, Emma Mae — B.S.	Elementary Education
Mitchell, Arrie G. — B.S.	Home Economics
Mitchell, William Freddie — B.S.	Agriculture
Moore, Druella — B.A.	History
Morgan, Alma L. — B.A.	English
Moye, Oscar L. — B.S.	Agriculture
Myles, Martha E. — B.S.	Home Economics
Nathan, Earle Bernice — B.S.	Biology
Nicholson, Juanita O. — B.A.	Business Administration
Owens, Billye Joyce — B.A.	Music
Palmer, Hattie D. — B.S.	Biology
Palmer, Willie H. Jr. — B.S.	Biology
Payne, James S. — B.A.	History
Pegues, Eloise Kerl — B.S.	Home Economics
Penelton, Alberta E. — B.S.	Biology
Perkins, Hattie Logan — M.Ed.	Administration and Supervision
Pettit, Homer Jr. — B.A.	Business Administration
Phillips, Jerl — B.S.	Chemistry
Phillips, Thoymee Sadberry — B.S.	Home Economics
Price, Edward F. — B.S.	Physical Education
Reed, Ottra Marline — B.A.	Business Administration
Reed, Robbye L. — B.S.	Elementary Education
Rhodes, Fannie Jean — B.S.	Biology
Richards, Minnie J. — B.A.	Business Administration
Robertson, Lois L. — B.S.	Home Economics
Robinson, Robert C. — B.S.	Mathematics
Rodgers, Elizabeth L. — B.A.	Business Administration
Rodgers, Ralph — B.S.	Agriculture
Roligan, Bobbie Gene — B.S.	Home Economics
Russell, Lillian Ruth — B.S.	Elementary Education
Russell, Clarence — B.A.	Business Administration
Sallie, Willie G. — M.A.	Sociology
Sanders, Vera M. — B.S.	Home Economics
Scott, Adele Chambers — B.A.	Music
Scott, Lottie B. — B.A.	Sociology
Shanklin, Adelina E. — B.S.	Home Economics
Shivers, Deloris V. — B.S.	Elementary Education
Smith, Bonnie Faye — B.S.	Elementary Education
Smith, Doris Marie — B.A.	Home Economics
Smith, Elbert III — B.S.	Music
Smith, Eva Lee — B.S.	Home Economics
Smith, James Edward — B.S.	Agriculture
Smith, Jessie Mae — B.S.	Elementary Education
Smothers, Dorphenia G. — B.A.	Music
Snell, Lerline L. — B.S.	Elementary Education
Solomon, Alderene Hall — B.S.	Physical Education
Stewart, Billie F. Henry — B.S.	Elementary Education
Stout, Doris J. — B.A.	Sociology
Strickland, Doris Jean — B.A.	Business Administration
Talley, Louise M. — B.S.	Elementary Education
Taylor, Jernice M. — B.S.	Elementary Education
Taylor, Ruth Bennett — B.S.	Elementary Education

Teno, John Henry — B.S.	Education
Thomas, Bobbie Jean — B.A.	Business Administration
Thomas, Hersey E. — M.Ed.	Elementary Education
Thomas, Marye E. — B.A.	Music
Thompson, Maye Everette — B.S.	Home Economics
Thornton, Mildred — B.S.	Home Economics
Todd, Frederick D. — B.S.	Biology
Truvillion, Dora Ruth — B.S.	Library Service Education
Warren, Curtis — B.A.	Business Administration
Warren, Jeanette — B.S.	Elementary Education
Warren, Jessie Elizabeth — B.S.	Home Economics
Washington, Jessye L. — B.A.	Business Administration
Washington, Ruth E. — B.S.	Home Economics
Watson, James F. — B.A.	Sociology
Webster, Waymon — B.A.	Music
White, Bettye Jean — B.S.	Elementary Education
Williams, Jimmie Mae — B.S.	Home Economics
Williams, Joe Alonzo — B.A.	Music
Williams, Mary Lee — B.S.	Elementary Education
Williams, Zelma Lee — B.S.	Elementary Education
Willis, George M. — B.S.	Agriculture
Willis, John H. — B.S.	Agriculture
Woodfork, Burna Dean — B.S.	Home Economics
Wright, Pearl V. — B.S.	Home Economics
Wyche, Charlie — B.S.	Chemistry

CERTIFICATES OF PROFICIENCY

May 1952

Allen, John Wilson	Certificate in Drafting
Benson, Harold E.	Certificate in Plumbing
Davis, Darius M.	Certificate in Masonry
Fears, Frank	Certificate in Carpentry and Cabinetmaking
Gilmore, Harrison B.	Certificate in Electrical Repair and Maintenance
Russell, Charles A.	Certificate in Masonry
Wilson, Earnest Lee	Certificate in Tailoring and Garmentmaking
Wilson, Jefferson D.	Certificate in Baking

SUMMARY OF DEGREES, DIPLOMAS, AND CERTIFICATES

May 1952

	Male	Female	Total
Bachelor of Arts	14	28	42
Bachelor of Arts in Music	3	11	14
Bachelor of Science	18	10	28
Bachelor of Science in Agriculture	13	0	13
Bachelor of Science in Education	1	42	43
Bachelor of Science in Home Economics	0	42	42
Bachelor of Science in Industrial Education	4	0	4
Master of Arts	1	1	2
Master of Education	6	4	10
Master of Science	1	2	3
Trade Certificates	8	0	8
Total	69	140	209

NAME OF GRADUATES

August 1952

Adams, Belle Bryant — M.Ed.	Elementary Education
Adams, Johnnie Mae — M.Ed.	Elementary Education
Allen, Carnie Edward — M.S.	Industrial Education
Allen, Clementine Becton — M.Ed.	Elementary Education
Allen, Johnny N. — M.S.	Physical Education
Anderson, Mae Hopkins — M.Ed.	Elementary Education
Anderson, Willie George — B.S.	Industrial Education
Andrews, Dorothy Jeanette — M.Ed.	General Education

Arnold, Timmoxena Furlow — M. Ed.	Administration and Supervision
Baker, Leartes Moore — M.Ed.	Elementary Education
Banks, Olivia Mosley — M.Ed.	Elementary Education
Bazil, Theresa Gaines — M.Ed.	Elementary Education
Beasley, Willie O. — B.S.	Biology
Bell, Tenola Stoney — M.Ed.	Home Economics Education
Beverly, Harold L. — B.A.	Sociology
Bishop, Darryl Cottrell — M.A.	Economics
Black, Dillie Belle — M.Ed.	Elementary Education
Blocker, Minnie A. Jones — B.S.	Physical Education
Blocker, Naomi — B.A.	Business Administration
Bonner, Nepha — B.S.	Elementary Education
Boney, David Wright — M.S.	Agricultural Education
Boston, Arbirda Munson — M.Ed.	Elementary Education
Briscoe, Edward Jewel — M. Ed.	Administration and Supervision
Briscoe, Frankie Earl — B.S.	Home Economics
Britton, Jannye Morgan — M. Ed.	Elementary Education
Britton, Maceo M. — B.S.	Biology
Brown, Charles Eugene — B.A.	Political Science
Brown, Doris Mae — B.S.	Physical Education
Brown, Earl L. — B.S.	Elementary Education
Brown, Libbie Nickerson — M.Ed.	Elementary Education
Bryant, Frank, Jr. — B.S.	Biology
Bryant, Marjorie Louise — B.S.	Physical Education
Burns, Fuller M. McNeary — B.A.	Business Administration
Caldwell, Azee — B.S.	Agriculture
Caldwell, Rosezell — B.S.	Elementary Education
Campbell, Julia Muckleroy — M.Ed.	Elementary Education
Carter, Evelyn K. — M.Ed.	Elementary Education
Cass, Corine Ethyl — M.Ed.	Elementary Education
Caviel, William B. — B.A.	Business Administration
Champion, Arthur G. — M. Ed.	Administration and Supervision
Childress, Hubert — B.S.	Agriculture
Clay, Matthews H. — M.Ed.	Industrial Education
Clay, Willie Mae — B.A.	Business Administration
Clayton, Esther G. — M.Ed.	Elementary Education
Cleaver, Dorothy J. — B.S.	Home Economics
Coleman, Edna Mae — B.S.	Home Economics
Coleman, Florence Whiting — M.Ed.	Elementary Education
Coleman, Roosevelt — M.S.	Agricultural Education
Coley, Walter — B.S.	Biology
Collier, Earl D. — M.S.	Administration and Supervision
Collins, Clifton H. — B.S.	Agriculture
Colston, Lera Earl — M.Ed.	Elementary Education
Cook, Donald K. — B.S.	Educator
Cooper, Ardelia J. S. — M.Ed.	Elementary Education
Cooper, Charles R. — B.S.	General Education
Coss, Christine Witcher — M.Ed.	Elementary Education
Coss, Lura Booth — M.Ed.	Administration and Supervision
Coss, Willie R. — M.S.	Agricultural Economics
Cotton, Alfría Beatrice — M.S.	Home Economics
Cotton, Margie Nell — B.S.	Library Science Education
Crouch, Ivory D'Lois — M.Ed.	Elementary Education
Cunningham, Dailis F. — B.A.	Business Administration
Curvey, Elbert R. — M.Ed.	Industrial Education
Dailey, Lula D. — M.S.	Elementary Education
Darden, William — B.S.	Agriculture
Davenport, Delores C. — M.Ed.	Elementary Education
Davenport, Theresa Lee — B.S.	Home Economics
Davis, Comoses D. — B.S.	Physical Education
Davis, Matt Berke — M.Ed.	Administration and Supervision
Dennis, Mayme J. — B.A.	Music
Dosha, Conseula — M.Ed.	Home Economics
Dillard, Leatha Marie — B.S.	Home Economic
Douglas, Burnice P. — M.Ed.	Administration and Supervision
Douglas, Ruby P. — B.S.	Elementary Education
Downing, Emzy L. — B.S.	Industrial Education
Edmerson, Lee Roy — M.Ed.	Administration and Supervision
Edwards, Constance L. Davis — M.Ed.	Administration and Supervision
Ellis, Azalia W. J. — M.Ed.	Elementary Education
Enoch, Willard F. — B.A.	History
Escoe, Edward E. — M.S.	Industrial Education
Faine, Lavern L. — M.Ed.	Administration and Supervision
Faine, Nina Warren — M.Ed.	Elementary Education
Farris, Henry L. — M.Ed.	Administration and Supervision
Fields, Myrtle Jean S. — B.S.	General Education
Forte, Loberta H. P. W. — M.S.	Administration and Supervision
Francis, Luther V. — M.S.	Industrial Education
Frazier, David — B.S.	Agriculture
Freeman, Betonio — M.Ed.	Administration and Supervision
Gibbs, Thelma Fletcher — B.S.	General Education

Gillins, Herschel — B.S.	.....	Biology
Grace, Donald Edward — B.A.	.....	Business Administration
Granger, Alziner Barker — M.Ed.	.....	Elementary Education
Green, Effie Mae — B.S.	.....	Home Economics
Green, Lula Bell — M.Ed.	.....	Administration and Supervision
Griner, Leroy C. — B.S.	.....	Agriculture
Guinn, Idell D. — B.S.	.....	Home Economics
Hamilton, Suecatha — B.S.	.....	Home Economics
Hammons, Lawrence C. — M.Ed.	.....	Administration and Supervision
Harden, Nathaniel C. — M.S.	.....	Administration and Supervision
Harper, Doris Velma — B.A.	.....	Sociology
Harper, Lillie M. — M.Ed.	.....	Home Economics
Harris, Arthena H. — M.Ed.	.....	Elementary Education
Harris, Bernice L. J. — M.Ed.	.....	Elementary Education
Harris, Ethel S. — M.Ed.	.....	Elementary Education
Harris, John R. — B.S.	.....	Elementary Education
Harvey, Frederick D. — B.A.	.....	Music
Hatcher, Ruby Oneil — M.Ed.	.....	Elementary Education
Hawkins, Marjorie B. — M.A.	.....	History
Hayden, Rosa M. G. — B.S.	.....	Physical Education
Hays, Gladys Price — M.Ed.	.....	Elementary Education
Hendley, Virgil C. — M.Ed.	.....	Administration and Supervision
Henry, Arnett A. — M.Ed.	.....	Administration and Supervision
Henry, Joesph — B.S.	.....	Physical Education
Hendon, Herbert E. — B.S.	.....	Physical Education
Hicks, Willie A. — B.S.	.....	Physical Education
Hicks, Wilmer K. — M.Ed.	.....	Administration and Supervision
Hightower, Richard H. — B.A.	.....	Sociology
Hightower, Ruby Pauline — B.S.	.....	Library Science Education
Hilliard, Nellie E. — M.Ed.	.....	Administration and Supervision
Hinton, Paul Denton — M.Ed.	.....	Administration and Supervision
Hodge, Adolphus — M.Ed.	.....	Administration and Supervision
Hodge, Erie M. Jones — M.Ed.	.....	Home Economics Education
Hodge, Lovanna E. — M.Ed.	.....	Elementary Education
Hodges, Mildred R. — B.S.	.....	Physical Education
Holmes, Beulah Mae — B.S.	.....	Home Economics
Houston, Pearl Elizabeth — B.A.	.....	Sociology
Hudson, Willis Andrew — B.S.	.....	Mathematics
Humphrey, Vivian R. — M.S.	.....	Administration and Supervision
Hunter, Benjamin F. — M.Ed.	.....	Administration and Supervision
Ingram, Dorothy Mae — M.Ed.	.....	Administration and Supervision
Jackson, Elizabeth S. — M.Ed.	.....	Elementary Education
James, Lois H. — B.A.	.....	Business Administration
Jernigan, Opal Doris	.....	Elementary Education
Johns, Clarence A. Jr. — M.Ed.	.....	Elementary Education
Johns, Theodore — M.Ed.	.....	Administration and Supervision
Johnson, Bobbie Lee — M.Ed.	.....	Elementary Education
Johnson, Cleophus — B.S.	.....	Physical Education
Johnson, L. A. — B.S.	.....	Agriculture
Johnson, Lillian Marjorie — M.A.	.....	English
Jones, Ellevia L. — B.A.	.....	Sociology
Jones, Esther Thelma — M.Ed.	.....	Education
Jones, Mabel Boone — M.Ed.	.....	Elementary Education
Jones, Roosevelt — B.A.	.....	Sociology
Jones, Tom W. — M.Ed.	.....	Administration and Supervision
Justice, Ivory Marie — B.A.	.....	Business Administration
Kaufman, Laurie M. — B.S.	.....	Elementary Education
Kemp, Effie S. — M.Ed.	.....	Elementary Education
Kemple, Thomas L. — M.Ed.	.....	Administration and Supervision
Kennedy, Marvin James — B.S.	.....	Agriculture
Kennedy, Nathaniel H. — B.S.	.....	Agriculture
Kimble, Westerfield A. Tucker — M.A.	.....	History
King, Harold Ray — M.S.	.....	Administration and Supervision
King, Lawrence E. — M.Ed.	.....	Administration and Supervision
Knight, Audrey Mae — B.S.	.....	Elementary Education
Knight, Wanda M. Baldwin — B.A.	.....	Business Administration
Koontz, Katherine J. — B.S.	.....	Physical Education
Lacy, Vera Kirksey — M.A.	.....	Music Education
Lee, Marie Holtzclaw — M.Ed.	.....	Elementary Education
Lee, Roger W. — M.S.	.....	Chemistry
Lemons, Sarah M. — B.S.	.....	Elementary Education
Leonard, Carl W. — B.S.	.....	Industrial Education
Lott, Nettie B. — B.S.	.....	Home Economics
Lucas, James Earl — B.S.	.....	Agriculture
McCalister, Theresa B. — M.Ed.	.....	Elementary Education
McDade, Florene D. — B.S.	.....	Elementary Education
McDaniel, Robert T. — M.S.	.....	Mathematics
McGee, Leo Lucius — M.Ed.	.....	Administration and Supervision
McGlaston, Harold I. — M.Ed.	.....	Administration and Supervision
McGowan, Curtis B. — M.A.	.....	History
McIntosh, John C. — B.A.	.....	Physical Education

McKnight, James E. — B.S.	Industrial Education
McLemore, Naomi C. — M.Ed.	Elementary Education
McNeil, Queen I. D. — M.Ed.	Elementary Education
Malone, Cecil D. — B.S.	Agriculture
Mangram, Archie R. — B.S.	Biology
Mann, Fred D. — B.S.	Industrial Education
Marshall, Eliza Nowlin — M.Ed.	Elementary Education
Martin, Carl James — M.A.	Music Education
Martin, Grover W. — M.S.	Physical Education
Martin, Katie W. — M.S.	Administration and Supervision
Martin, Rowland Jerry — M.A.	Piano
Mayes, Johnnie Jr. — B.S.	Agriculture
Mayfield, Gertha D. — B.S.	Home Economics
Mercer, Ethel Mae S. — M.Ed.	Elementary Education
Miles, Abram Jr. — M.A.	Music
Miller, Pansy Jones — M.S.	Physical Education
Mills, Essie Mae — B.S.	Home Economics
Mines, Isaiah H. Jr. — B.S.	Agriculture
Mitchell, Ollie Z. — M.Ed.	Administration and Supervision
Moody, Martha A. — M.Ed.	Elementary Education
Moore, Henry L. — M.Ed.	Administration and Supervision
Moore, Maurice M. — M.Ed.	Elementary Education
Moore, Ulysses — M.Ed.	Agricultural Education
Morris, Bobbie Jean — B.A.	Business Administration
Moseley, Odessa R. — M.S.	Elementary Education
Mosley, Christine A. — M.Ed.	Elementary Education
Neal, Robert B. — B.S.	Industrial Education
Nelson, Thomas Edward — B.A.	Sociology
Newsome, Harding — M.S.	Ornamental Horticulture
Newsome, Stather W. — M.Ed.	Elementary Education
Norwood, Alvin F. — M.Ed.	Administration and Supervision
Oilphant, Mary Lucille — M.S.	Physical Education
O'Neil, Dorothy Jean — B.A.	Music
Orr, Leo Earsel — M.Ed.	Administration and Supervision
Orum, Eddie L. Jr. — B.S.	Agriculture
Page, George W. — M.Ed.	Administration and Supervision
Palfrey, Lois Evelyn — M.Ed.	Elementary Education
Patrick, Sterling P. — B.A.	History
Peavy, Freddie H. — B.S.	Mathematics
Peppers, James E. — M.Ed.	Administration and Supervision
Perry, John — B.S.	Agriculture
Peters, Thelma Lee — M.S.	Physical Education
Peterson, Alandrus A. — B.S.	Industrial Education
Pettit, Cleveland Roy — B.S.	Physical Education
Phillips, Annie Mae — B.A.	Music
Phillips, Jessie Lee — M.Ed.	Elementary Education
Phillips, Missouri V. — M.Ed.	Home Economics
Pigford, Millard C. — M.S.	Administration and Supervision
Pinchback, Mary Elizabeth — M.Ed.	Elementary Education
Pollard, Clifford Julius — M.S.	Chemistry
Powell, Gentry Lee — M.S.	Agricultural Education
Presley, Joyce Ann — B.S.	Elementary Education
Pruitt, Evie M. Starr — M.Ed.	Elementary Education
Pruitt, Willie — B.S.	Physical Education
Quarles, Monroe J. — B.S.	Agriculture
Ravare, Lillian Thomas — M.Ed.	Administration and Supervision
Raven, Johnnie M. Rogers — B.S.	Education
Reed, Alonzo L. Jr. — M.Ed.	Administration and Supervision
Reid, Marie Collins — M.Ed.	Home Economics
Rhem, Edward Ray — B.S.	Agriculture
Richardson, Alonzo — M. Ed.	Administration and Supervision
Richardson, Ida W. Punched — B.S.	Elementary Education
Richardson, Maple Leo — B.S.	Elementary Education
Rigsby, Alexander B. — M.S.	Agricultural Education
Robins, Hal Jr. — M.A.	History
Roberson, Victoria Starr — M.Ed.	Elementary Education
Roberts, Lee Louis — B.S.	Mathematics
Robinson, Australia Scales — M.Ed.	Elementary Education
Robinson, Bennie — B.S.	Mathematics
Robinson, Eunice E. — B.S.	Elementary Education
Robinson, Thelma C. — M.Ed.	Elementary Education
Rogers, Maude Cooper — M. Ed.	Elementary Education
Rollins, Vergie L. Vaughn — B.S.	Education
Russaw, Annie Bell — M.Ed.	Elementary Education
Rutherford, Thomas C. — M.Ed.	Administration and Supervision
Rutledge, Gladys Lincoln — B.S.	General Education
Rutledge, Helen Emanuel — M.S.	Home Economics
Rutledge, Irving W. — M.Ed.	Administration and Supervision
Sadler, Ethel Watkins — M.Ed.	Administration and Supervision
Sampson, Perry — M.Ed.	Administration and Supervision
Sampson, Sylvester A. — M.Ed.	Administration and Supervision

Samuel, Rubye L. Whiting — M.Ed	Elementary Education
Sanders, Emerson — B.S.	Agriculture
Sanders, Ruben A. — B.S.	Agriculture
Scott, Wellington N. — B.A.	Music
Seidel, Willie Mae — M.Ed.	Home Economics Education
Sharpless, Dorothy Mae — B.S.	Home Economics
Shaw, William Lloyd — M.S.	Administration and Supervision
Shelton, Lillian Hughey — B.S.	Home Economics
Sheppard, Maggie McCowan — B.S.	General Education
Shotwell, Hettie E. — M.Ed.	Elementary Education
Simpson, James Luther — B.A.	Political Science
Smith, Alexander I. — M.S.	Agricultural Economics
Smith, Dorris Evelyn — M.Ed.	Elementary Education
Smith, Hattie Johnson — M.Ed.	Elementary Education
Smith, James C. — B.S.	Agriculture
Smith, Thelma T. — M.Ed.	Elementary Education
Smith, Willie M. Inglemom — M.Ed.	Elementary Education
Stafford, George H. — M.Ed.	Administration and Supervision
Stafford, Inez Terrell — M.Ed.	Home Economics
Starks, James Andrew — M.Ed.	Administration and Supervision
Starr, Cassie Mae Moss — M.Ed.	Elementary Education
Stell, Mazie Helen — B.A.	Business Administration
Stubblefield, Ruby Simmons — M.S.	Elementary Education
Swanson, Floyd T. — B.A.	Elementary Education
Swindall, Elma Lucille — M.Ed.	Elementary Education
Swindall, Selma Louise — M.Ed.	Elementary Education
Taylor, Dorothy R. — M.Ed.	Home Economics
Taylor, Velma M. — B.S.	Home Economics
Teal, Winston Walton — M.Ed.	Administration and Supervision
Tennison, Mattie Price — M.Ed.	Elementary Education
Thomas, Doretha E. — B.S.	Home Economics
Thomas, John Henry — M.Ed.	Industrial Education
Thompson, Jimmie P. — B.A.	Business Administration
Thompson, Sara Jean — B.S.	Home Economics
Toles, Willie R. — M.S.	Administration and Supervision
Turner, Jessie L. — M.Ed.	Elementary Education
Twitty, Alma Rollerson — B.S.	Home Economics
Walker, Lawrence L. — M.Ed.	Elementary Education
Walker, Minnie Ruth — B.S.	Home Economics
Washington, Ennis Julian — M.S.	Agricultural Education
Washington, Gladys Alexander — B.S.	Home Economics
Washington, Leola — B.S.	Elementary Education
Watson, Leonidas — M.S.	Agricultural Education
Webb, Mildred Lucille — M.Ed.	Elementary Education
Wedgeworth, Ruby Rae — M.Ed.	Administration and Supervision
Weatbrook, Helen Marie — B.S.	Home Economics
Whitaker, Claude F. — M.Ed.	Administration and Supervision
White, Goldie Mae — M.Ed.	Administration and Supervision
White, James — M.Ed.	Administration and Supervision
Whitehead, Gollia M. H. — B.A.	Business Administration
Whiteside, Albert G. — M.S.	Physical Education
Whitten, Willie Mitchell — M.Ed.	Elementary Education
Wiley, Oscar — B.S.	Agriculture
Williams, Anna Stone — B.A.	Business Administration
Williams, Lafayette B., Sr. — M.S.	Administration and Supervision
Williams, Laverna — B.S.	Home Economics
Williams, Minnie Olga G. — M.Ed.	Elementary Education
Williams, Vernell V. — B.S.	Industrial Education
Willis, Wilmer — B.A.	Industrial Education
Wilson, Wilma F. — M.Ed.	Sociology
Wimbish, Oscar Leon — M.Ed.	Elementary Education
Woods, Theola Pleasant — M.Ed.	Elementary Education
Wright, Herman — B.S.	Elementary Education
Yancy, Carrie Miller — M.Ed.	Agriculture
Yates, Roy Lee — B.S.	Elementary Education
Young, Joe C. — M.S.	Agriculture
Younger, Frankie J. — B.S.	Industrial Education
	Home Economics

NURSING DIPLOMAS

August 1952

Adkins, Mary Ellen
Arnwine, Rose Marie
Bell, Bernice
Bluiett, Lillie Ruth
Greenwell, Ruby Fay

Kemp, Mytris L.
Kennedy, Alma Darline
Lewis, Martha
Lee, Elaine Marie
Russell, Bettye Jean

Simmons, Charleyne V.
Spencer, Vernell
Thompson, Theresa Golden
White, Virgie Lee

CERTIFICATES OF PROFICIENCY

August, 1952

Brown, Clever DelorisCertificate in Tailoring and Garmentmaking

SUMMARY OF DEGREES,
DIPLOMAS, AND CERTIFICATES

August, 1952

	Male	Female	Total
Bachelor of Arts	13	14	27
Bachelor of Arts in Music	3	2	5
Bachelor of Science	16	7	23
Bachelor of Science in Agriculture	24	0	24
Bachelor of Science in Education	4	21	25
Bachelor of Science in Home Economics	0	23	23
Bachelor of Science in Industrial Education	7	1	8
Master of Arts	6	4	10
Master of Education	49	87	136
Master of Science	25	11	37
Nursing Diploma	0	14	14
Trade Certificates	0	1	1
Total	148	185	333

SUMMARY OF ENROLLMENT

ENROLLMENT FIRST TERM SUMMER 1952

	Agric.		A&S		Engr.		H. E.		I. E.		N. E.		Total		Combined	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	Total	Total
Graduates.....	76	0	242	689	0	0	0	106	19	5	0	2	337	802	1139	
Seniors.....	37	0	57	141	0	0	0	56	22	2	0	14	116	213	329	
Juniors.....	5	0	25	70	0	0	0	20	10	2	0	19	40	111	151	
Sophomores.....	5	0	15	53	0	0	0	5	1	0	0	0	21	58	79	
Freshmen.....	3	0	9	24	0	0	1	5	4	1	0	37	17	67	84	
Unclassified.....	0	0	9	23	0	0	0	0	0	0	0	0	9	23	32	
Special.....	5	0	10	16	0	0	0	8	8	0	0	0	23	18	41	
Trade 2nd Year.....	0	0	0	0	0	0	0	0	4	0	0	0	4	0	4	
Trade 1st Year.....	0	0	0	0	0	0	0	0	3	0	0	0	3	0	3	
Total.....	131	0	367	1010	0	0	1	200	71	10	0	72	570	1292	1862	

ENROLLMENT SECOND TERM SUMMER 1952

	Agric.		A&S		Engr.		H. E.		I. E.		N. E.		Total		Combined	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	Total	Total
Graduates.....	35	0	164	369	0	0	2	60	19	0	0	0	220	429	649	
Seniors.....	35	0	47	112	0	0	0	44	18	3	0	14	100	173	273	
Juniors.....	4	0	17	55	0	0	0	14	0	0	0	19	23	90	118	
Sophomores.....	4	0	10	43	0	0	0	5	0	0	0	0	14	48	62	
Freshmen.....	3	0	12	14	0	0	0	2	8	0	0	37	18	54	72	
Unclassified.....	0	0	8	28	0	0	0	0	0	0	0	0	8	28	36	
Special.....	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	
Trade 2nd Year.....	0	0	0	0	0	0	0	0	3	0	0	0	3	0	3	
Trade 1st Year.....	0	0	7	9	0	0	0	2	8	0	0	0	17	11	28	
Total.....	83	0	265	630	0	0	2	126	59	7	0	70	409	833	1242	

ENROLLMENT WITHOUT DUPLICATION SUMMER 1952

	Agric.		A&S		Engr.		H. E.		I. E.		N. E.		Total		Combined	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	Total	Total
Graduates.....	96		268	767			1	132	19		2	384	901	1285		
Seniors.....	43		58	150				60	22	4	14	123	228	351		
Juniors.....	5		25	72				19	10	2	19	40	112	152		
Sophomores.....	5		15	57				6	1			22	63	85		
Freshmen.....	3		12	24				5	4	1	37	19	67	86		
Unclassified.....	1		7	29				6	2			10	35	45		
Special.....									1	1		1	1	2		
Trade 2nd Year.....									4			4	4	4		
Trade 1st Year.....	3		13	19				9	9	5		25	33	58		
Total.....	157		398	118			1	237	72	13	72	628	1440	2063		

FIRST SEMESTER, 1952-53

(Includes 108 Veterans)

	Agric.		A&S		Engr.		H.E.		I.E.		N.E.		Total		Combined	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	Total	Total
Graduates.....	8		13	12	1			3	2				24	15	39	
Seniors.....	49		119	210	10	1	56	32	4	20			211	290	501	
Juniors.....	34		103	206	3	1	45	18		36			159	287	446	
Sophomores.....	37		146	274	7		41	19					209	315	524	
Freshmen.....	50		252	340	60	1	57	45		79			408	476	884	
Unclassified.....	4		5	3	1		2	1					10	5	15	
Special.....			1	5					24	8			25	13	38	
Trade 2nd Year.....								17	8				18	8	26	
Trade 1st Year.....			10	11		1	4	6	1	5			18	21	39	
Total.....	182		649	1061	82	5	208	164	21	140			1082	1430	2512	

SECOND SEMESTER, 1952-53

(Includes 106 Veterans)

	Agric.		A&S		Engr.		H.E.		I.E.		N.E.		Total		Combined	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	Total	Total
Graduates.....	8		7	10	1			2	1				17	12	29	
Seniors.....	44		91	198	7	1	41	32	7	19			175	265	440	
Juniors.....	39		99	199	4	1	41	18	1	35			161	273	437	
Sophomores.....	39		138	259	8		42	18	2				203	303	506	
Freshmen.....	45		263	353	60	1	67	40	5	57			409	482	891	
Unclassified.....																
Special.....				5				22	6				22	11	33	
Trade 2nd Year.....								13	8				13	8	21	
Trade 1st Year.....	14		13	14			3	3		4			30	21	51	
Total.....	189		115	1038	80	3	196	147	29	115			1030	1378	2408	

ENROLLMENT WITHOUT DUPLICATION, 1952-53

	Agric.		A&S		Engr.		H.E.		I.E.		N.E.		Total		Combined	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	Total	Total
Graduates.....	8		17	16	1		4	2					28	20	48	
Seniors.....	50		123	223	10	1	59	36	7	20			220	313	533	
Juniors.....	37		105	216	4	1	46	18	1	36			165	299	464	
Sophomores.....	38		150	277	8		44	19	2				215	323	538	
Freshmen.....	55		279	377	69	1	60	54	5	81			458	524	982	
Unclassified.....	5		5	3	1			1					11	3	14	
Special.....			1	5				24	8				25	13	38	
Trade 2nd Year.....								17	8				18	8	26	
Trade 1st Year.....	7		13	13	1	1	1	6		5			28	19	47	
Total.....	200		693	1130	94	5	214	177	31	142			1168	1522	2690	

DIVISION OF GRADUATE STUDY

ADMINISTRATIVE OFFICERS

- EDWARD B. EVANS, D.V.M., *President of the College*
JESSE M. DREW, ED.D., *Dean of Instruction, Dean of Graduate School*
THOMAS P. DOOLEY, PH.D., *Dean of School of Arts and Sciences*
CLAUDE L. WILSON, M.E., M.S., *Dean of School of Engineering*
GEORGE L. SMITH, M.S., *Dean of School of Agriculture*
MRS. E. MAY GALLOWAY, M.S., *Dean of School of Home Economics*
ALVIN I. THOMAS, M.S., *Director of Division of Industrial Education*
CHARLES F. CALLOWAY, M.D., *Director of Division of Nursing Education
and Resident Physician*
WILMOTH A. LOPER, M.S.N.E., *Dean of Division of Nursing Education*
JONEL L. BROWN, PH.D., *Director of Extramural Services*
LLOYD E. SCOTT, B.A., *Director of Student Life*
HARRY E. FULLER, *Dean of Men*
MRS. R. L. BLAND EVANS, M.S., *Dean of Women*
HYMAN Y. CHASE, PH.D., *Lieutenant Colonel, Infantry, U.S.A., Com-
mandant, Reserve Officers Training Corps*
THOMAS R. SOLOMON, PH.D., *Registrar and Chairman of Admissions*
ORESTES J. BAKER, M.L.S., *Librarian*
HARVEY R. TURNER, B.S., *Treasurer*
WILLIAM C. DAVID, B.S., *State Director, Extension Services for Negroes*

COMMITTEE ON GRADUATE STUDY

- JONEL L. BROWN *Head of Department of Economics and
Business Administration*
JESSE M. DREW *Dean of Instruction*
THOMAS P. DOOLEY *Dean of School of Arts and Sciences*
ELIZABETH M. GALLOWAY *Dean of School of Home Economics*
ERNEST M. NORRIS *Professor of Agricultural Education*
ANNE C. PRESTON *Professor of Elementary Education*
JAMES D. SINGLETARY *Head of Department of Education*
GEORGE L. SMITH *Dean of School of Agriculture*
THOMAS R. SOLOMON *Registrar and Head of Department of
History, Philosophy and Political Science*
ALVIN I. THOMAS *Director of Division of Industrial Education*
CLAUDE L. WILSON *Dean of School of Engineering*
GEORGE R. WOOLFOLK *Professor of History*

ADMINISTRATION

Administration of the Graduate Division is under the direction of the Committee on Graduate Study, which determines policies and administers them through its Chairman. Students seeking the Master's Degree are governed by the general rules

of the catalogue and their work is under the general supervision of the Committee on Graduate Study.

ADMISSION TO THE GRADUATION DIVISION

Applicants for admission to the Division of Graduate Study should submit a regular application blank properly executed at least thirty days prior to the opening of the session in which they wish to register. This is to be accompanied by an official transcript of undergraduate work completed.

Students are admitted by the Committee on Graduate Study, acting through the Chairman, to whom application should be made. For admission to the Division of Graduate Study an applicant must have received his baccalaureate degree from a senior college of recognized standing.

Graduates of such institutions who have met the prerequisite requirements of the departments or divisions in which they wish to major are customarily accepted as graduate students in full standing if they graduated in the upper 50 per cent of their class while carrying an undergraduate program with a normal distribution of courses. All cases are considered on an individual basis. This includes a study of the courses taken and the grades made, which should average "B" or above at least in the junior-senior years of the undergraduate curriculum.

Students not eligible to admission in full standing as prospective candidates on probation or as Graduate Special students may be permitted to take individual courses with the approval of the instructors concerned.

GRADUATE WORK BY SENIORS

A senior in this College who lacks six semester hours or less of having completed the requirements for the undergraduate degree may, with the approval of his undergraduate dean, and the Chairman of the Committee on Graduate Study, register for graduate courses, not to exceed six semester hours, while completing his undergraduate requirements. If graduate credit is desired for any part of the work carried, the combined load of graduate and undergraduate courses must not exceed 15 semester hours.

Seniors who wish to register for graduate courses may apply to the Chairman of the Committee on Graduate Study for information as to procedure.

FELLOWSHIPS

Prairie View Agricultural and Mechanical College offers ten graduate fellowships with a stipend of \$500.00 each, for the encouragement of research and advanced study.

The primary object of these appointments is to stimulate research and not to give pecuniary aid. The award is paid in twelve equal monthly installments and does not include a remission of college fees. The appointments are made for one year only, but application may be made for their renewal.

These fellowships are open to students who hold bachelor's degrees from colleges or universities in good standing. No student should apply for one of these awards who does not cherish a real and earnest desire to do a good quality of research and graduate work.

Forms for making application may be secured from the Dean of the Graduate School.

REQUIREMENTS FOR THE DEGREES OF MASTER OF ARTS, MASTER OF SCIENCE, AND MASTER OF EDUCATION

Graduates of Prairie View Agricultural and Mechanical College or of any other college of approved standing may, on the satisfactory completion of an approved program of study, received the degree of Master of Arts, Master of Science, or Master of Education. The degree received will depend upon the field of subject matter emphasized at the graduate and undergraduate level.

The requirements for the degree are:

1. Admission to Candidacy—

A graduate student enrolled in the Division of Graduate Study does not automatically become a candidate for the Master's degree. To become a candidate, the student must complete the following requirements:

- a. A candidate must be accepted by the department in which the major and minor work are to be performed. A student to be considered for admission to candidacy for the Master's degree must present evidence of satisfactory preparation for graduate study in the fields chosen. The general undergraduate record, the record in the fields selected for graduate study, and the record on the graduate work completed will be considered in determining admission to candidacy. As further evidence of satisfactory preparation, the major department may require the candidate to pass a qualifying examination.
- b. The prerequisites for the Master of Education degree are eighteen semester hours and two years of teaching experience.
- c. After twelve semester hours of graduate work have been satisfactorily completed, with an average of "B" or better, a formal application must be made for admission to candidacy. This application, approved by the heads of the major and minor departments, must be submitted to the Director of the Division of Graduate Study not later than twelve weeks prior to the date on which the degree is to be conferred.

2. Residence—

At least a full academic year or the equivalent must be spent in residence and a minimum of thirty semester hours be earned at Prairie View. A student shall not present himself for graduation until he has six months' residence to his credit after the date on which the Graduate Faculty approved his candidacy for an advanced degree.

3. Course Requirements—

- a. A minimum of thirty semester hours, exclusive of thesis, with an average grade of "B," or better, in courses approved for graduate credit, is required for the degrees of Master of Arts and Master of Science.
- b. Thirty-six semester hours of course work are required for the degree of Master of Education.

- c. Ordinarily, at least twenty semester hours of graduate work in the major field and ten semester hours in the minor field will be required.
- d. Not more than one workshop, two extension courses, two institutes, or a total of six semester hours in any combination of these may be counted toward the Master's degree.

4. Transfer of Credit—

Credit obtained in a different, but recognized institution, not exceeding six semester hours, may be transferred and credited to the Master's degree, provided that the work was of graduate character and provided that acceptance of the transferred credit does not reduce the minimum residence period of one academic year. Transfer of advanced credit is not made unless requested by the student in a letter to the Director of Graduate Study. Such a transfer of credits from another institution to apply in partial fulfillment of the requirements for the Master's degree must be approved by the Graduate Committee. An "A" grade from another institution or earned in extension courses, may not be used to validate a grade of "C" earned in this college.

5. Extension and Correspondence Courses—

A student who has satisfied requirements for admission to the Division of Graduate Study may receive credit toward the Master's Degree for extension courses, subject to the following conditions: (1) graduate credit will be given only for courses approved by the Committee on Graduate Study; (2) the courses fit in with the student's program of study; (3) graduate credit for extension courses shall not exceed six semester hours and shall not reduce the residence requirement for the degree; and (4) An "A" grade from another institution or earned in extension courses, may not be used to validate a grade of "C" earned in this college.

Correspondence work is not accepted for graduate credit. With the consent of the department concerned, a student may take work by correspondence to remove deficiencies in his undergraduate training.

6. Quality of Work—

A candidate must maintain at least a "B" average in all work taken in graduate study. Not more than 6 semester hours of work of "C" grade will be accepted as a part of the minimum requirement for the Master's Degree.

7. English Usage Requirement—

A student who is deficient in English usage but who is otherwise doing satisfactory work will be required to satisfy the committee on English Usage with regard to his use of the English language, before he is allowed to graduate. Such deficiency might be determined by an English Usage Examination or by reports of instructors of courses in which a student is registered.

8. Foreign Language Option—

At the option of the head of the department in which the major work is done, a reading and working knowledge of French, German, or Spanish may be required to complete the requirements for the Master of Arts Degree.

9. Thesis—

a. In addition to the thirty semester hours in graduate courses all candidates for the degrees of Master of Arts and Master of Science must present an acceptable thesis on a subject germane to the major course of study. The thesis must be written under the direction of a member of the faculty of the Graduate Division in the department in which the individual is working. The thesis must have the approval of each member of the student's reading Committee. This work must be acceptable with respect to both scholarship and literary quality. A candidate for an advanced degree must have his thesis subject approved by his Chairman at least six months before the date he expects it to be filed with the Graduate Office. A candidate should complete his thesis not later than three weeks before the date of his intended graduation in order that it may be examined by each member of the Advisory Committee for the student. The following directions should be rigidly followed in the writing of the thesis.

The thesis should be typewritten, doubled-spaced on a durable rag bond, 8 1-2 x 11 inches, leaving the left hand margin at least an inch and a quarter wide, the right hand margin at least three-quarters of an inch. Set up the title page according to the following form:

TITLE OF THESIS

A Thesis

Presented to the Graduate Division
of Prairie View Agricultural and Mechanical College
In Partial Fulfillment of the
Degree of

Master of _____

By

(Author's Name in Full)

(Date on which degree is to be conferred)

Following the title page there must be a biographical sketch of the author, not exceeding 200 words. An outline is furnished by the Graduate Office for this purpose. Further directions for thesis preparation will be placed in the hands of the student at the time needed.

Two copies of the thesis must be bound at the expense of the student and filed in the Graduate Office.

- b. All candidates for the degree of Master of Education are required to enroll in a seminar in connection with which a seminar paper will be written in specially prepared form approved in writing by the instructor in charge of the seminar. This paper shall deal with a topic in the student's major field of concentration.

10. Application for the Degree—

Any candidate expecting to graduate at the end of a regular long session is required to file application for the degree expected during the first five days of the first semester of his attendance in that session on a blank available in the Registrar's Office. If graduation is expected at the end of the summer session, the application for the degree should be made during the first three days of the first term of the student's attendance in that summer session. The application should be directed to the Registrar.

11. Final Examination—

After the thesis has been completed and filed with the Graduate Office, the candidate is required to pass a general comprehensive examination which shall be a test of the candidate's knowledge of the study which he has mainly pursued. This examination may be written or oral or both. This general examination is conducted by the Student's Advisory Committee of which the representative of the major field shall act as Chairman, and at least two other examiners to be appointed by the Director of the Graduate School, after consultation with the Advisory Committee. Any member of the Graduate Faculty may attend the examination as a visitor.

A candidate who fails in his general examination must register in the Graduate School and carry work for an additional semester before an opportunity will be given for a second examination, unless special permission is granted by the Committee on Graduate Study for an earlier examination and the request of the department concerned.

12. Recommendation for the Degree—

Upon completion of all requirements for the Master's Degree, candidates are certified for graduation by the Chairman of the Committee on Graduate Study. Degrees are publicly conferred at the close of the regular and the summer sessions.

TIME LIMIT ON WORK FOR MASTER'S DEGREE

A student must complete his master's work within six consecutive years after his first enrollment in the Graduate Division.

GRADING SYSTEM FOR GRADUATE STUDENTS

Course work of graduate students is reported as "A" (95-100); "B" (85-94); "C" (75-84); "D" (65-74); "F" (below 65); "I" (Incomplete); and "K" (Delinquent Account).

No graduate credit is given for courses in which a grade lower than "C" is received. In order to show satisfactory progress toward an advanced degree a student must receive an average grade of "B." A graduate student is expected to maintain a "B" average in all his work. If he receives a grade of

"C" or lower in one course, his subsequent registration may be restricted; if he receives a grade of "C" or lower in two or more courses, he will be placed upon probation. With further grades below "B," he will become ineligible for candidacy for the Master's Degree. An "A" grade from another institution, or earned in extension courses, may not be used to validate a grade of "C" earned in this college.

The work of a graduate student performed in connection with his thesis problem is reported as "satisfactory" or "unsatisfactory."

A graduate student may receive a grade of "I"—incomplete, in a course with the privilege of finishing the work at a later date. "Incomplete" work must be made up within twelve months after the close of the term in which the grade was earned, or no credit will be allowed for the course.

Graduate students registered in courses that are open to advanced undergraduates must do a certain amount of work in addition to that required of undergraduates. The nature of this additional work may be the reading of additional books on the subject and presenting a review of same, the making of reports, or such other work as the teacher in charge of the course may deem wise.

Special Note.—Any person reporting for matriculation as a graduate student without having filed an application and other necessary credentials for graduate status (two weeks prior) will be given only tentative graduate status, pending the proper evaluation of undergraduate work. The student should understand that after his credentials have been examined under this tentative arrangement, the institution reserves the right to deny him graduate status even though he has completed all other parts of his registration.

FIELDS OF STUDY

Majors and Minors may be selected in the following fields:

Administration and Supervision	Extension Education
Agricultural Economics	History
Agricultural Education	Home Economics Education
	Industrial Education

Biology	Mathematics
Chemistry	Music
Economics	Physical and Health
Education	Education
Elementary Education	Political Science
Engineering	Rural Education
English	Social Science
	Sociology

For further information regarding course offerings on the graduate level write the Office of the Registrar, or the Office of Graduate Study.

SCHOOL OF AGRICULTURE

AGRICULTURAL ECONOMICS

The prerequisite for majoring in Agricultural Economics is the Bachelor of Science Degree in Agriculture from a recognized college of Agriculture.

To fulfill the requirements for a major in this field, one must complete at least twenty semester hours of work in Agricultural Economics. For the minor, the student is required to complete at least ten semester hours of work in the minor field agreed upon in consultation with the major professor and approved by the Dean. However, if it becomes necessary, the hours required in the major and minor fields may vary to the extent of two or three hours accumulated in either field. In such a case, the total hours must amount to thirty or more.

513. AGRICULTURAL FINANCE. (3-0) *Credit 3.* Financial requirements of individual farmers; emphasis placed on credit institutions serving the farmers. Prerequisite: Principles of Agricultural Economics.

523. MARKETING OF FARM PRODUCTS. (3-0) *Credit 3.* Study of the principles underlying successful marketing of farm products; study made of various middlemen through which farm products pass from the producer to the consumer; trips arranged for the class to visit and study markets. Prerequisite: Principles of Agricultural Economics.

552. AGRICULTURAL ECONOMICS SEMINAR. (2-0) *Credit 2.* Current problems in Agricultural Economics discussed; topics reported by students.

713. ECONOMICS OF AGRICULTURAL PRODUCTION. (3-0) *Credit 3.* Principles of production economics applied to production of major farm products in various areas; economic geography and agriculture, national production programs and the tariff on agricultural products. Prerequisite: Principles of Agricultural Economics.

723. COOPERATIVE MARKETING OF FARM PRODUCTS. (3-0) *Credit 3*. Principles underlying the successful operation of cooperative marketing organizations; examples of successful fruit, vegetable, livestock and cotton marketing associations.

733. ADVANCED FARM MANAGEMENT. BUSINESS ORGANIZATION OF TEXAS FARMS. (3-0) *Credit 3*. Use of farm management principles in the organization and operation of Texas Farms; selecting farms, farm enterprises; planning cropping systems, equipment needs, and capital trips to representative farms by the class. Prerequisite: Principles of Agricultural Economics.

743. LAND TENURE AND PROBLEMS. (3-0) *Credit 3*. Land as a factor of production, land utilization, tenure and income. Prerequisite: Principles of Agricultural Economics.

763. AGRICULTURAL LAND USE PLANNING. LOCAL, REGIONAL AND NATIONAL. (3-0) *Credit 3*. County, state regional and national land use programs. Submarginal, and supermarginal lands; work of the Farm Security Administration, Department of the Interior, and National Resources Board.

AGRICULTURAL EDUCATION

Undergraduate work equivalent to the Bachelor of Science degree in Agriculture is required.

501 or 502. AGRICULTURAL EDUCATION SEMINAR. (1-0 or 2-0) *Credit 1 or 2*. Designed for all graduate students having majors in Agricultural Education. Only candidates for an advanced degree are eligible to take this course.

513. METHODS OF CONDUCTING PART-TIME AND EVENING SCHOOLS IN VOCATIONAL AGRICULTURE. (3-0) *Credit 3*. Teaching Vocational Agriculture. Permission of instructor is required. An analysis of the problems related to part-time and evening schools in Vocational Agriculture and to the development of objectives and procedures in the organization and conduct of such instruction.

523. SUPERVISED PRACTICE PROGRAM BUILDING. (3-0) *Credit 3*. Teaching in Vocational Agriculture. Permission of instructor is required. Based upon researches in project accounting and analysis.

533. EXTENSION ORGANIZATION AND PROGRAM DETERMINATION. (3-0) *Credit 3*. Best procedure to be followed in developing state, county, and community programs of work, and outlining of plans of work looking to the orderly development of specific projects; discussion of the place of local leaders in extension teaching; representative organizations of rural people studied for the purpose of discovering points of contact and interest for cooperation in the conduct of extension work.

543. EXTENSION METHODS. (3-0) *Credit 3*. Aims and objectives of extension teaching and possible ways of measuring accomplishments reviewed and critically analyzed; various means and agencies employed in extension teaching as result of demonstrations, method demonstrations, meetings, news articles, personal services, bulletins, exhibits, and circular letters; evaluated from the standpoint of their teaching functions, adaptability, relative influence, cost, inter-relationship and general effectiveness.

553. ORGANIZATION AND CONDUCT OF 4-H CLUB WORK. (3-0) *Credit 3*. Development of 4-H Club programs and organization: objectives; psychological groupings; community integration; program content; community, county, state, and Federal organization, selection and use of local leaders, annual plans of work, evaluation; methods employed in 4-H work: projects, club meetings, demonstrations, judging work exhibits, achievement days, camps, short courses, and leadership training.

562-563. SPECIAL PROBLEMS IN HOME ECONOMICS EXTENSION. (2-0 or 3-0) *Credit 2 or 3*. Extension research and other data of special significance to the organization and conduct of extension work with rural women; current problems of home demonstration workers.

571 and 571-B. YOUNG FARMER PROBLEMS I AND YOUNG FARMER PROBLEMS II. (1-2) *Credit 1*. A correlate to 572 and 622; given on an un-assembled basis for teachers in service who are enrolled in either Agricultural Education 572 or 622. The classroom instruction in these two courses is followed up on an individual enrollee on-the-job basis.

572. METHODS OF WORKING WITH OUT-OF-SCHOOL GROUPS. (1-2) *Credit 2*. Special techniques for working with young-farmer and adult-farmer groups on farm and community problems; integration of such work into the total program of Agricultural Education in the community.

613. HISTORY AND PHILOSOPHY OF EXTENSION EDUCATION. (3-0) *Credit 3*. Development of Agricultural Extension Education; socio-economic influence responsible for the establishment of extension education; development of agricultural policy that has a bearing on the philosophy of extension education.

622. SUPERVISED FARMING PROGRAM BUILDING FOR OUT-OF-SCHOOL GROUPS. (1-2) *Credit 2*. Enterprise planning, accounting and analysis; selecting and developing over-all supervised farming programs with special reference to working with young-farmer and adult-farmer groups.

623. PUBLIC RELATIONS AND EXTENSION EDUCATION. (3-0) *Credit 3*. Methods and practices of acquainting the public with the scope and purposes of extension work through print, radio, visual aids, and full use of written and spoken word.

633. PSYCHOLOGY FOR EXTENSION WORKERS. (3-0) *Credit 3*. Significance of psychology to extension workers in relation to its meaning, the job of the extension worker, the meaning of education and of teaching; problem of motivation; nature of learning; basic principles and major types of learning; and conditions favorable for learning.

643. EXTENSION WORK EVALUATION. (3-0) *Credit 3*. Measuring results of extension work; sampling procedures, analysis and interpretation, and presentation and use of data in reference to study plans; methods of systematically appraising extension work.

712. or 713. PROBLEMS IN AGRICULTURAL EDUCATION. (2-0) or (3-0) *Credit 2 or 3*. Community-program approach to agricultural problems; scientific approximation of aims, objectives and standards; participation in field experiences and field research.

722 or 723. PRINCIPLES OF TEACHING METHODS IN AGRICULTURAL EDUCATION. (2-0 or 3-0) *Credit 2 or 3*. Logical and psychological bases for selecting methods of teaching agriculture.

SPECIAL NOTE.—*Majors in Agricultural Education will be advised to select additional courses in the field of Rural Education.*

AGRICULTURAL ENGINEERING

513. FARM STRUCTURES. *Credit 3.* The design and detail of construction of farm buildings; functional requirements and characteristics of materials; principles of sanitation, ventilation and water supply.

523. FARM SHOP WORK FOR TEACHERS. *Credit 3.* Presentation of purpose, plans and equipment of shops; organization of course of study; and, methods of teaching farm shop work in vocational agricultural departments in high schools.

533. SELECTION AND MANAGEMENT OF FARM MACHINERY. *Credit 3.* Soil working, planting and forage handling, as well as processing machines from the mechanical, operational and economic standpoints.

543. FARM POWER. *Credit 3.* Trends in design and methods of stress analysis applied to typical agricultural machines; suitability of materials, power requirements, lubrication, safety, and economic factors.

553. DRAINAGE AND IRRIGATION. *Credit 3.* The design and construction of farm drainage and irrigation systems based upon balanced engineering and economic factors.

573-583. SPECIAL PROBLEMS. *Credit 3.* Courses designed for students who are interested in working out problems not included in regular courses offered by the department.

561. SEMINAR. *Credit 1.* Preparation, presentation and discussion of papers on agricultural engineering subjects.

593. RURAL ELECTRIFICATION. (Elective) *Credit 3.* Principles and applications of electrical apparatus included in modern farm equipment, electrical heating and motored appliances, protective devices, and lighting facilities.

603. WELDING AND IRONWORK. (Elective) *Credit 3.* Advanced welding and metal work; repair and maintenance of farm machinery.

AGRONOMY

501. GRADUATE SEMINAR. (1-0) *Credit 1.* Each student will present organized papers on assigned subjects in crops, soils and genetics, based upon library and local research.

514. PLANT ECOLOGY. (2-4) *Credit 4.* Native and crop vegetation in relation to factors of environment. The application of environmental factors to general plant production.

523. ADVANCED FARM CROPS. (2-2) *Credit 3.* Emphasis will be placed on the geographical distribution, classification and physiology of the important Farm Crops.

533. PRINCIPLES OF PLANT PATHOLOGY. (2-2) *Credit 3.* Virus, bacterial and fungus diseases of field and horticultural crops. Symptoms and possible controls.

543. RANGE AND PASTURE IMPROVEMENT AND MANAGEMENT. (2-2) *Credit 3.* Types of pastures; pasture and range vegetation, methods of establishment and improvement.

553. PLANT BREEDING. (2-2) *Credit 3.* Crossing and breeding techniques for the most important farm crops. Inheritance and disease resistance and susceptibility. Field plot technique.

554. SOIL CHEMISTRY. (2-4) *Credit 4.* The application of the principles of chemistry to soils. The relationship between chemical properties and soil productivity.

563. DISEASES OF FIELD CROPS. (2-2) *Credit 3.* Common diseases found in field crops and best known methods of control.

573. FERTILIZERS AND SOILS. (2-2) *Credit 3.* Fertilizer recommendations for various crops and localities. Soil types and fertilizer requirements.

583. SOIL MAPPING. (1-3) *Credit 3.* The study of soil type characteristics by profiles; the mapping of selected local areas.

593. ADVANCED SOIL MANAGEMENT. (2-2) *Credit 3.* The application of the principles of soil management to the solution of practical farm problems.

ANIMAL HUSBANDRY

503. MARKETING LIVESTOCK. Livestock marketing services, functions, and prices.

434. BIOCHEMISTRY. An introductory course on the chemistry of living matter, foods, metabolism and nutrition. The laboratory works deal with the examination of tests of foods, nutritional studies and the qualitative examination of blood and urine.

513. A. H. EXTENSION PRACTICES. Accumulation, interpretation, and dissemination of published and pictorial information as related to livestock practices.

523. VETERINARY OBSTETRICS. Physiology of reproduction, principles of normal and abnormal parturition, diagnosing and treating sterility, abortion, and reproductive failures.

533. HERD AND FLOCK MANAGEMENT. Systematic studies of methods of breeding, feeding and management practices used in commercial livestock production.

543. RANGE AND PASTURE IMPROVEMENT AND MANAGEMENT. The course deals primarily with the types of pasture, and pasture and range vegetation; methods of establishment and improvement.

401. SEMINAR. Reviews and discussions of animal research articles.

DAIRY HUSBANDRY

533. DAIRY BACTERIOLOGY. *Credit 3.* Bacterial flora of milk products; milk sanitation, contamination and control—pure culture studies.

551. SEMINAR (DAIRY PRODUCTION). Current literature relating to various phases of milk production.

561. SEMINAR (DAIRY PRODUCTION). Continuation of 561 prerequisite—Seminar 561 D.H.

572. SPECIAL PROBLEMS. Reports on special problems in dairy farm management.

582. SPECIAL PROBLEMS. Continuation of 572.

523. DAIRY HUSBANDRY. Specific examples of dairy farmer needs and how to meet them. Relationship between production, testing, artificial breeding association, sire proving, work of dairy production field man.

543. TECHNICAL DAIRY PRODUCTION. *Credit 3.* Technical aspects of nutrition, milk secretion, and reproduction in dairy cattle.

434. BIOCHEMISTRY. *Credit 4.* An introductory course on the chemistry of living matter, foods, metabolism and nutrition. The laboratory works deal with the examination of tests of foods, nutritional studies and the qualitative examination of blood and urine.

DAIRY INDUSTRY

422. SPECIAL PROBLEMS. Research problems in Animal Husbandry; planning, execution, compiling and summarizing the data in publication form.

434. BIOCHEMISTRY. *Credit 4.* An introductory course on the chemistry of living matter, foods, metabolism and nutrition. The laboratory works deal with the examination of tests of foods, nutritional studies and the qualitative examination of blood and urine.

514. DAIRY LABORATORY METHODS. *Credit 4.* Theory of and Practice in Analytical Methods used for control and research in dairy manufactories. Emphasis placed on various methods of fat determination, procedures for platform and plant quality tests, detergents, washing and sterilizing compounds.

503. DAIRY INSPECTION AND ORDINANCES. *Credit 3.* Farm, plant, and products inspection; equipment and personnel; milk ordinances; standards.

533. DAIRY BACTERIOLOGY. *Credit 3.* Bacterial flora of milk products; milk sanitation, contamination and control—pure culture studies.

552. SPECIAL PROBLEMS. *Credit 2.* Reports on special problems in and relating to the dairy industry.

562. SPECIAL PROBLEMS. *Credit 2.* Continuation of D. I. 552.

571. SEMINAR. *Credit 1.* Current literature review and reports in dairy manufacturing industry.

HORTICULTURE

513. GENETICS. (2-2) *Credit 3.* Plant genetics which include Mendel's Laws, chromosome phenomena and plant improvement.

523. SYSTEMATIC POMOLOGY. (2-2) *Credit 3.* Description, nomenclature, classification and identification of deciduous and non-deciduous fruits with reference to varietal relationships. Exhibits and judging.

533. MARKETING OF FRUITS AND VEGETABLES. (2-2) *Credit 3.* A study of economic factors involved in the marketing of fruits and vegetables, transportation, methods of handling, middlemen and costs of distribution.

543. FERTILIZERS AND SOILS. (2-2) *Credit 3.* A study of soils and fertilizers in relation to production of stone, pome and small fruits, sub-soils, drainage, elevation and contour.

553. ECONOMIC ENTOMOLOGY. (2-2) *Credit 3.* A course which deals with the study of insects which attack fruits and vegetables. Includes the use of spray calendars, insecticides and equipment.

563. DISEASES OF FRUIT AND VEGETABLE CROPS. (2-2) *Credit 3.* A study of diseases of fruits and vegetables with emphasis on control. Plant hosts, disease-resistance and fungicides.

ORNAMENTAL HORTICULTURE

513. INTRODUCTION TO LANDSCAPE DESIGN. *Credit 3.* Problems in the design of small land areas; orientation, arrangement and circulation, including instruction in drafting and presentation.

523. TAXONOMY OF CULTIVATED PLANTS. *Credit 3.* Principles of plant classification; bibliographic tools of systematic botany; methods of collection, preservation and study of vascular plants.

533. PROBLEMS IN THE PROPAGATION OF ORNAMENTAL PLANTS. *Credit 2-4.* Problems in the propagation of ornamental plants in which the student is interested and which are approved by the instructor. Problems must be of a representative nature and must be worked out independently.

543. NURSERY PRINCIPLES AND PRACTICES. *Credit 3.* Fundamentals and practices involved in the management of a modern nursery; status of the industry, its development, growing, merchandising, and marketing of nursery products in all phases. Trips to nurseries in the state will be made.

553. ECOLOGY OF ORNAMENTAL PLANTS. *Credit 3.* Patterns of vegetation, local, regional and continental. relation of environmental conditions that limit the various plant communities and influence the growth of and the competition in ornamental plants.

563. LANDSCAPE PLANNING AND PLANTING OF SMALL PROPERTIES. *Credit 3.* Problems in the design of small properties using pencil and watercolor; lectures on selecting, securing, planting, transplanting, pruning, diseases, and cost of plants.

573. COMMERCIAL GREENHOUSE PRODUCTION. *Credit 3.* Practical application of science to the production and marketing of greenhouse crops; the growing of seedling plants in the greenhouse, cloth house, and lath. Trips will be made to greenhouses in the state.

583. LANDSCAPE HORTICULTURE PROBLEMS. *Credit 3.* Problems in landscaping in which the student is interested and which are approved by the instructor. Problems must be of a representative nature and must be worked out independently.

593. PLANTING DESIGN. *Credit 3.* The basic principles of planting design; arrangement and use of plants in landscape design with drafting and field practice; problems in color, texture, and mass in plants.

613. PROBLEM IN LANDSCAPE HORTICULTURE. *Credit 2-4.* Problem in landscaping in which the student is interested and which is approved by the instructor; problem must be of a representative nature and must be worked out independently.

623. PARK, CEMETERY, AND INSTITUTIONAL GROUNDS ADMINISTRATION. *Credit 3.* Lectures, collateral reading, and reports on visits to parks,

cemeteries, and institutional grounds; lectures and discussions of problems connected with the administration of parks, cemeteries and institutional grounds.

POULTRY HUSBANDRY

POULTRY 561. SEMINAR. Extensive and intensive review and reporting of literature in various phases of Poultry Husbandry.

POULTRY 523. POULTRY MANAGEMENT. A detail study of all phases of farm and commercial flocks, including cost of production.

POULTRY 533. POULTRY DISEASE AND SANITATION. Anatomy of domestic fowls; poultry sanitation and hygiene; infectious and manifeitious diseases of fowls; parasites, minor surgery.

POULTRY 502. SPECIAL POULTRY PROBLEMS. Research problems of a practical nature in Poultry Husbandry.

POULTRY 542. DOMESTIC PROPAGATION OF TURKEYS, DUCKS, GEESE AND GAME BIRDS. The history, characteristics, economic importance, reproduction, and development of the leading breeds and varieties of turkeys, geese, ducks and game birds.

POULTRY 603. POULTRY BREEDING. A study of inherited characteristics, factors affecting the economic characteristics of poultry.

POULTRY 512. TURKEY PRODUCTION. A study of the principles and practices of turkey production with special emphasis in breeding, brooding, feeding and marketing.

AGRICULTURAL AND HOME ECONOMICS EXTENSION WORK

A graduate major leading to a Master of Science degree in Extension Education is offered. The major field of study, which is approximately two-thirds of the graduate work leading to the degree, may consist of courses selected from an approved list. The list of courses for a major in the field of Extension Education has been made from courses offered by the departments of Agricultural Education, Agricultural Economics, Education, Home Economics Education, English, Physical Education and Sociology.

The Extension worker is permitted an even broader selection of courses for his minor subjects. Minor courses, constituting approximately one-third of the graduate program, may be chosen from the various academic departments of the College in which the worker feels the greatest need for subject matter training.

To be permitted to work toward the Master of Science degree in Extension Education, the candidate is required to have the equivalent of a Bachelor of Science degree in Agriculture or Home Economics. Also, the candidate must have had at least two years of satisfactory Extension experience.

A master's thesis or master's written report will be required. It is expected that the work of gathering material for the thesis will provide information useful to the Extension worker.

Two plans are available for obtaining the master's degree. Subject to the approval of the major instructor, the candidate for the master's degree may choose:

PLAN I—with the Master's Thesis. This plan requires 30 semester hours of graduate credit plus a master's thesis.

PLAN II—without the Master's Thesis. This plan requires 36 semester hours of graduate credit plus a written master's report of research or problem on a topic in the major field.

Associated with the credit requirement is the residence requirement. Under either plan, a student must spend in residence a minimum of two semesters or two and one-half twelve week summer sessions.

Graduate credit may be earned off the campus by enrolling in absentia for a limited amount of research or problem work on the recommendation of the head of the major department and with the approval of the Chairman of the Committee on Graduate Study.

Some Extension workers have earned graduate credit at other institutions. If this work comes within the time limitations mentioned below, and if it is of such nature as to fit in with the student's program of study at Prairie View A. and M. College, the Committee on Graduate Study will permit up to six semester hours to be transferred from approved institutions. A student who is allowed to transfer six semester hours from another institution may not, because of the residence requirement, be allowed to use credit obtained from off-campus work.

The work included in a program for the master's degree must be completed within a period of six years of the date of the final examination for the degree. Work taken previous to this time will be considered invalidated by the passage of time.

SUGGESTED COURSES FOR A MAJOR IN THE FIELD OF EXTENSION EDUCATION

Agricultural Economics	713	Economics of Agricultural Production
	743	Land Tenure and Problems
Agricultural Education	533	Extension Organization and Program
	543	Determination
	553	Extension Methods
	563	Organization and Conduct
	572	Special Problems in Home Economics Extension
	623	Methods of Working with out-of-School Groups
	633	Public Relations and Extension Education
	643	Psychology for Extension Workers
	713	Extension Work Evaluation
		Problems in Agricultural Education
Economics	543	Social and Labor Legislation
	583	Economic Problems of the Consumer
	573	Labor Problems
	773	Economics Theory and Social Policy
Education	Adm. 513	Vocational Guidance
	Sup. 723	Rural School Supervision
	Ed. 593	Nutritional Aspects of Health Education
	Ed. 643	Theory and Practice in Recreational and Camping Leadership
	Ed. 713	School and Community Relations
	Psy. 563	Mental Adjustment
Home Economics Education	703	Seminar in Nutrition
	705	Consumer Education
	743	Statistical Techniques
	793	Supervision of Home Economics
Physical Education	663	Advanced Personal and Community Hygiene
Sociology	503	Introduction to Social Welfare
	603	Problems of Child Welfare
	643	Modern Social Problems

SCHOOL OF ARTS AND SCIENCES

BIOLOGY

A student entering graduate study in the field of biology should present at least an undergraduate minor, 20 hours or the equivalent, which includes: general zoology, botany and physiology. It is preferable that he shall have had enough credits for an undergraduate major in biology. It is expected that students who plan to qualify for the Master's degree shall become thoroughly grounded in the general principles of general zoology, botany, physiology, embryology, and anatomy (comparative and microscopic).

If the transcript of the undergraduate record of a student does not meet the above qualifications, additional satisfactory undergraduate work will be required before the student is admitted to graduate status.

The offerings in biology on the graduate level have been divided into six fields: (1) embryology; (2) genetics; (3) histology; (4) microbiology; (5) physiology; and (6) general biology plus special courses in biology.

Students seeking the master's degree in biology should present well chosen courses from three of these fields and pursue further work in one field. Programs should be outlined in consultation with a faculty member in the students field of interest.

The following courses are offered only upon sufficient demand:

I. EMBRYOLOGY

504. EMBRYOLOGY. (2-4) *Credit 4*. Descriptive embryology; vertebrate development with special reference to mammals; dissections and examinations of selected embryological materials, including serial sections of the fetal pig. Prerequisite: Biology 114 and 124.

554. EXPERIMENTAL EMBRYOLOGY. (2-4) *Credit 4*. Modern problems and techniques of the development of the principles and mechanisms of development; analysis in factors operating in the morphogenesis, regeneration and development of selected vertebrates. Prerequisite: Biology 414 and 504.

604. ADVANCED VERTEBRATE EMBRYOLOGY. (2-4) *Credit 4*. Early stages in the formation of the human embryo, the mechanism of its implantation in the uterus; correlated changes in the reproductive organs of the mother, organogenesis and histogenesis. Each student takes a special problem in organogenesis. Prerequisites: Biology 414 and 504

693. BIOLOGY OF SEX. (3-0) *Credit 3*. A consideration of the biological problem of sex.

704. BIOLOGY FOR TEACHERS. A training course for prospective teachers of Zoology and Botany. Lectures or conferences, field and laboratory work. Prerequisites: at least Biology 604 and 644.

600. RESEARCH. (*Credit Arranged*). Research may be carried on in any area listed which the student has a sufficient background.

640-650. SEMINAR IN BIOLOGICAL PROBLEMS. Required of all graduate students in the department. No credit.

II. GENETICS

574. GENETICS. See Biology 254.

673. CYTO-GENETICS. (3-0) *Credit 3*. Lectures, reports and laboratory work on the finer cell structures with special reference to chromosome

structure, related structures and processes involved as they affect heredity.

674. PLANT BREEDING. (2-4) *Credit 4*. The application of the principles of Genetics to plant improvement. Discussion, reports, lectures, demonstrations and individual participation in techniques and methods are to be used as procedures of instruction. Prerequisite: Biology 254, Genetics.

683. EXPERIMENTAL GENETICS. (3-0) *Credit 3*. Through experimentation to show how variations may be brought about; the techniques of mating and breeding to support accepted facts.

684. ANIMAL BREEDING. (2-4) *Credit 4*. Application of the principles of genetics to Animal Breeding and improvement. Comparison of various methods of selection and technique. Prerequisite: Biology 254, Genetics.

III. MICROBIOLOGY

533. PRINCIPLES OF PLANT PATHOLOGY. (2-3) *Credit 3*. The fundamentals of parasitism as it affects plants and the means of controlling the diseases which result from the various parasites which are detrimental to plants.

549. GENERAL MICROBIOLOGY. See Biology 334.

614. PROTOZOOLOGY. (2-4) *Credit 4*. Structure, Taxonomy, Physiology, life history and adaptations of protozoa, especially the nonparasitic form. Prerequisite: Biology 114 and 124.

624. GENERAL PARASITOLOGY. (2-4) *Credit 4*. Morphology, life history, diagnosis and control of the important parasites affecting man and other animals. Prerequisite: Biology 614.

724. DAIRY BACTERIOLOGY. (3-4) *Credit 4*. Importance of bacteria in dairy products; the number and types of bacteria in dairy products and significance of their occurrence.

IV. HISTOLOGY

514. HISTOLOGICAL TECHNIQUE. See Biology 354. In addition to the requirements of 354, the student is required to master some of the special techniques.

524. HISTOLOGY. See Biology 364.

714. CYTOLOGY. (2-4) *Credit 4*. Lectures, reports and laboratory work on the finer structures cells and processes.

V. PHYSIOLOGY

534. GENERAL PHYSIOLOGY. (2-4) *Credit 4*. Functioning of the organ systems along with the chemical and physical processes involved; quantitative experimentation on warm blooded animals basic physiological technique; original research on a problem. Whenever possible original research sources are consulted for information to acquaint the student with leading workers in the field and their methods. Prerequisite: Biology 342 and elementary courses in Physics and Chemistry.

544. ENDOCRINOLOGY. (2-4) *Credit 4*. Organs of internal secretion; embryology, phylogeny, microscopic anatomy, and physiology. Prerequisite: Biology 114, 124 and 324.

584. SPECIAL PHYSIOLOGY OF MAMMALS. (2-4) *Credit 4*. The experiments not given in the general courses.

634. NEUROLOGY. (2-4) *Credit 4*. A brief review of the brain and cranial nerves of the shark; the morphology of the spinal cord and brain of a mammal; the principle tracts and nuclei (reaction systems) of the cord and brain of a special reference to the human nervous system.

VI. GENERAL BIOLOGY AND SPECIAL COURSE IN BIOLOGY

543. PLANT ECOLOGY. (2-3) *Credit 3*. The distribution of plants and the effect of environmental factors upon determining the geographical distribution. (Prerequisite: Systematic Botany).

553. GENERAL ENTOMOLOGY (3-2) *Credit 3*. The structure, life history, habits and means of recognizing and classifying the more common insects. Attention is also given to their relations with man and other animals as well as plants.

563. ECONOMIC ENTOMOLOGY. (3-2) *Credit 3*. Insect pests; identification, distribution and the principles and methods of various types of insect pest control. Literature and research methods are also studied.

564. SYSTEMATIC BOTANY. (2-4) *Credit 4*. Local flora, giving training in the identification and classification of the higher plants. Prerequisite: Botany 134.

CHEMISTRY

Persons who plan to pursue the graduate degree in chemistry must fulfill the undergraduate requirements stipulated by the department. These requirements are essentially: one year of inorganic chemistry, one year of analytical chemistry, one year of organic chemistry, one year of physical chemistry. It is expected that the average grades in these courses and of courses in related fields be not less than a grade of "C." The department reserves the right to give a qualification test to students and will make recommendations for the courses needed to enable a student to do graduate work in chemistry.

Students who plan to minor in chemistry on the graduate level must have fulfilled all requirements for a minor in chemistry on the undergraduate level stipulated in the catalog.

Upon acceptance as a graduate student in chemistry an advisor will be assigned who shall advise the student on courses to pursue, etc.

At the completion of a minimum of twelve semester hours of graduate work in chemistry, satisfactorily completed with an average of "B" or better, a formal application must be made for admission to candidacy. This application must be approved by the heads of the major and minor departments and submitted to the Director of the Graduate School for approval. Research projects for the thesis will be assigned AFTER THE STUDENT HAS BEEN APPROVED AS A CANDIDATE.

A reading knowledge of French or German is recommended for all candidates.

After approval of the thesis, the candidate will be given a written and/or oral preliminary examination in his major and minor fields. It is required that this exam must be taken at least six weeks before graduation.

The final examination will be oral and shall be over subject materials not covered in the preliminary exam and the thesis.

It is recommended that persons who plan to qualify for the M.S. Degree in chemistry spend at least two years in residence and that those who plan to study during the summer periods plan to spend at least one summer which can be devoted entirely to research. It is further required that the thesis be of such quality that it may be published in an accepted scientific journal. Below is a suggested outline of study for the various fields of chemistry. These, of course, represent the minimum requirements.

ANALYTICAL

Identification of Organic Compounds	4 Lab and Lec
Course	Hrs.
Organic theory	3 Lec
Physical Chemistry (Advanced)	3 Lec
Advanced Inorganic	3 Lec
Advanced Analysis	6 Lec and Lab
Seminar	2
Research	
Biochemistry	4
Total	25 Hrs. (Exclusive of research)

BIOCHEMISTRY

Identification of Organic Compounds	4 Lab and Lec
Course	Hrs.
Advanced Inorganic Chemistry	3 Lec
Advanced Analysis	3 Lec
Advanced Physical	3 Lec
Intermediate Metabolism	3 Lec
Advanced Organic	6 Lec
Seminar	2 Lec
Research	
Total	24 Hrs. (Exclusive of research)

INORGANIC CHEMISTRY

Course	Hrs.
Identification of Organic Compounds	4 Lec
Advanced Inorganic Chemistry	6 Lec and Lab
Advanced Physical	3 Lec
Advanced Organic	3 Lec
Advanced Analytical	3 Lec
Seminar	2 Lec
Biochemistry	4
Total	25 Hrs. (Exclusive of research)

ORGANIC

Course	Hrs.
Identification of Organic Compounds	4 Lab and Lec
Advanced Organic Chemistry	6 Lab and Lec
Advanced Physical	3 Lec
Advanced Analytical	3 Lec
Seminar	2 Lec
Research	
Biochemistry	4
Total	25 Hrs. (Exclusive of research)

COURSES

613. and 623. ADVANCED INORGANIC CHEMISTRY. (3-0) *Credit 3*. The periodic law: several forms of the table. Quantum numbers. A brief discussion of chemical bonds and resonance. Structure and properties of typical non-metallic compounds. Behavior of electrolytes in non-aqueous solvents.

701. CHEMICAL PRINCIPLES. (1-0) *Credit 1*. Fundamental concepts and principles of chemistry; designed especially for persons interested in the teaching of chemistry. Prerequisite: Graduate or advanced undergraduate standing.

704. ADVANCED ANALYTICAL CHEMISTRY. (1-6) *Credit 4*. Lecture-recitation: Theory and picture of sampling, solution of refractory materials, special methods of precipitation, use of radio active material water analysis, special types of calculations.

Laboratory: Gravimetric and electrolytic separation (limestones and alloys) evolution methods, gas analysis, electrometric oxidation, reduction.

713. IDENTIFICATION OF ORGANIC COMPOUNDS. (Qual. Organic Analysis). The separation and identification of pure organic compounds and mixtures.

723. QUANTITATIVE ORGANIC CHEMISTRY. (1-4) *Credit 3*. The determination of elements and functional groups by Macro-methods with an introduction to micro-methods.

743. ADVANCED TOPICS IN ORGANIC CHEMISTRY. (3-0) (a) Stereochemistry; (b) Reaction Mechanism; (c) Terpenes and Carbohydrates. 3 hours credit for each topic.

732. ADVANCED ORGANIC CHEMISTRY. (2-0) *Credit 2*. A short review of elementary organic chemistry with an extension of more advanced topics. Includes assigned current subject material.

752. INTERMEDIARY METABOLISM. (0-4) *Credit 2*. A laboratory course concerned with a quantitative study of the intermediates formed in cellular metabolism of fats, carbohydrates, proteins, and minerals employing

equipment currently used in biochemical research. Both manometric and spectrometric methods are included. Prerequisite 434, or taken concurrently with 753.

753. INTERMEDIARY METABOLISM. (3-0) *Credit 3.* A lecture course concerned with the intermediates formed in the metabolism of fats, carbohydrates, proteins, minerals and nucleic acids and interrelationship between the metabolic pathways in both plants and animals. Such topics as: Enzyme-substrate substrate (Michaelis' Theory) energy relationships competitive inhibition, isotope technique, free radical nature of intermediates, enzyme kinetics, energy rich bonds, mesomeric concepts are included. Prerequisite: 434 and 424.

762. ORGANIC SYNTHESIS. (1-4) *Credit 2.* Conferences and laboratory work dealing with the synthesis of various organic compounds. Prerequisite: one year of organic chemistry.

763. BIOCHEMICAL AND CLINICAL ANALYSIS. (0-6) *Credit 3.* Conferences and laboratory work dealing with analysis of blood, urine and vitamin assay. Prerequisite: Chemistry 435.

782. TOPICS IN THE CHEMISTRY OF NUTRITION. (2-0) *Credit 2.* Lectures, assigned readings on the most recent developments in research on vitamins, amino acids, proteins, minerals and hormones as related to human and animal nutrition. Prerequisite: Chemistry 453.

783. ADVANCED PHYSICAL CHEMISTRY. (3-0) *Credit 3.* A lecture course consisting of advance topics in physical chemistry; Thermodynamics, chemical kinetics, theories of solutions, phase rule. Prerequisite: Chemistry 424 and mathematics through differential and integral calculus.

802. ELECTROCHEMISTRY. (0-4) *Credit 2.* Conferences, assigned readings and exercises in the laboratory dealing with the fundamental theories of electrochemistry and the preparation of certain inorganic and organic compounds. Prerequisite: Chemistry 424.

600, 700, 800. RESEARCH. *Credit arranged.* Problems for investigation may be selected from one of the following fields of chemistry: 1. Analytical; 2. Biochemistry; 3. Inorganic Chemistry; 4, Organic Chemistry.

911 and 921. SEMINAR. (1-0) Discussion of topics which are current in the various fields of chemistry.

ECONOMICS AND BUSINESS ADMINISTRATION

Majors and minors are offered in the Department of Economics and Business Education. Students desiring to major in Economics and/or minor in Business Education should consult with the Head of the Department and plan a program in conjunction with the major professor. A minor in Business Education is offered primarily for in-service teachers of commercial subjects.

To fulfill the requirements for a major in this field, one must complete twenty semester hours of satisfactory work. Students who plan to minor in the Department are required to complete a minimum of ten hours.

Students who have not completed an undergraduate major in Economics must take, under the guidance of the Head of the Department, certain undergraduate courses in Economics.

BUSINESS EDUCATION

603. METHODS IN BUSINESS EDUCATION. (3-0) *Credit 3.* Materials and methods in the teaching of shorthand, typewriting, bookkeeping, and general business.

623. IMPROVEMENT IN INSTRUCTION IN SHORTHAND AND TYPEWRITING. (3-0) *Credit 3.* For experienced teachers of shorthand and typewriting; a study of the latest trends and techniques in the teaching of shorthand and typewriting.

633. PRINCIPLES AND PROBLEMS IN BUSINESS EDUCATION. (3-0) *Credit 3.* Problems of course construction, curriculum evaluation, community and business relations, and other current problems.

573. LABOR PROBLEMS. (3-0) *Credit 3.* Evolution of industrial society; labor movement as a "going government"; protective legislation dealing with wages, hours, and unemployment compensation; problems involving the employer-employee relationships. Prerequisite: Economics 213-223.

583. ECONOMIC PROBLEMS OF THE CONSUMER. (3-0) *Credit 3.* Family budgets, marketing, price controls, and other problems of consumers.

593. POST-WAR ECONOMIC POLICIES. (3-0) *Credit 3.* Full employment, investment, foreign trade and finance, price control and fiscal policies.

613. MARKETING—PRINCIPLES AND PRACTICES. (3-0) I. An introduction to the fundamentals of marketing. It will include a study of products and activities of handling and distribution of commodities in marketing enterprises.

653. ECONOMIC STATISTICS. (2-2) *Credit 3.* Techniques of gathering, assorting, tabulating and presenting statistical data—Prerequisite: Economics 213, and 223.

663. MODERN ECONOMIC THOUGHT. (3-0) *Credit 3.* II. Analysis and appraisal of recent and contemporary economists and their contribution to public policy. Prerequisite: Economics 323 and 413.

702. THE NEGRO IN THE AMERICAN LABOR MOVEMENT. (2-2) *Credit 2.* American Trade Unionism with special reference to the role and status of Negroes in the labor union. Prerequisite: Basic courses in Economics and Sociology.

703. PUBLIC FINANCE AND TAXATION. (3-0) *Credit 3.* Introduction to the field of government finance; character and growth of public expenditures; public debt creation and fiscal policy; theories, principles and problems of taxation.

723. SEMINAR IN ECONOMIC THEORY. (3-0) *Credit 3.* Critical discussion of debatable topics in the field of economic theory, prices, value and distribution; reports will be made on recent or contemporary theories and theorists. Prerequisite: Consent of instructor.

743. CAPITALISM AND SOCIALISM. (3-0) *Credit 3.* Capitalism, unionism, socialism, facism, and individualistic anti-capitalism, each viewed under

the headings of conditions, theories and movements. A research course. Prerequisite: Economics 213 and Sociology 213.

773. ECONOMIC THEORY AND SOCIAL POLICY. (3-0) *Credit 3.* Analysis of economic theories involved in various institutional and government policies, especially those centering around farm control, education, housing, relief, protection of works and consumer and social security.

EDUCATION

MINIMUM REQUIREMENTS FOR A MASTER'S DEGREE IN THE DEPARTMENT OF EDUCATION

The minimum undergraduate preparation for the Master's Degree is eighteen semester hours of basic course credit in the field of the graduate major. Those persons who plan to major in Elementary Education should include such basic courses as the following:

Elementary Art	3 hrs.
Public School Music	3 hrs.
Teaching of Reading	3 hrs.
Elementary Science	3 hrs.
Child Development and Growth	3 hrs.

Attention is called to the requirements of the Texas Education Agency for the teaching certificate in the field of graduate concentration.

ADMISSION TO CANDIDACY

Action on admission to candidacy for a Master's Degree will be taken after the student (1) has been in residence for at least one semester or summer session, earning at least twelve hours of graduate course credit; (2) has maintained a "B" average or better; (3) has satisfactorily demonstrated proficiency in English usage and has satisfied all the classification requirements of the college.

The student failing to meet the above requirements will be continued on probation for a second semester. In the event he does not meet the requirements for candidacy at this time, it will be understood that no more graduate credit earned by him will be applicable to a Master's Degree.

SUGGESTED CURRICULUM FOR A MAJOR IN ELEMENTARY EDUCATION

Child Growth and Development	3 hrs.
Teaching the Language Arts	3 hrs.
Evaluation of Modern Practices	3 hrs.
Diagnosis and Remedial Treatment of Elementary School Subjects	3 hrs.
Developing Elementary School Curriculum	3 hrs.
Problems of the Elementary Teacher	3 hrs.

Electives from the following:
 Arts and Crafts in Public School
 Audio-Visual Education
 Supervision of Elementary School Subjects
 Elementary School Administration
 Library Service Education
 Survey Course of Education for Special
 Handicapped Children
 Child Accounting
 Special Project in Public School Art

 21 hrs.

SUGGESTED CURRICULUM FOR ADMINISTRATION AND SUPERVISION—PRINCIPAL MAJOR

Child Growth and Development	3 hrs.
Supervision	3 hrs.
Curriculum and Methods	3 hrs.
School Community Relations	3 hrs.
Administration	9 hrs.

 21 hrs.

SUGGESTED CURRICULUM FOR ADMINISTRATION AND SUPERVISION—SUPERVISION MAJORS

Child Growth and Development	3 hrs.
Administration	3 hrs.
Curriculum and Methods	3 hrs.
School Community Relations	3 hrs.
Supervision	9 hrs.

 21 hrs.

ADMINISTRATION AND SUPERVISION

513. VOCATIONAL GUIDANCE. (3-0) *Credit 3.* Open to all graduate students. Surveys required of all students. Vocational Guidance as a means of contributing to major objectives of secondary education; typical centers, movements, and programs as now carried on. Reading and reports.

523. ADMINISTRATION OF STUDENT PERSONNEL. (3-0) *Credit 3.* Open to students of senior and graduate standing. Common personnel problems of administrators and supervisors such as extra-curricula activities, guidance, student-faculty relationship; health; admissions; discipline; records and reports; etc.

533. HIGH SCHOOL ADMINISTRATION. (3-0) *Credit 3.* Work of the High School Principal; technique of organizing the high school program; history, objectives, and status of secondary education in the United States.

543. PRINCIPLES OF GUIDANCE. (3-0) *Credit 3.* Introductory course. survey of the field; emphasis on the Role of the Classroom Teacher in personnel work.

553. ELEMENTARY SCHOOL PRINCIPLE'S WORKSHOP. *Credit 3.* Study and solution of problems arising in elementary schools.

633. ELEMENTARY SCHOOL ADMINISTRATION. (3-0) *Credit 3.* Problems, organization, administration and supervision of elementary schools.

643. SUPERVISION OF ELEMENTARY SCHOOL SUBJECTS. (3-0) *Credit 3.* The nature and philosophy of supervision, the need of supervision in elementary schools, the activities of supervisors, the promotion of teacher growth, and the appraisal of teaching efficiency.

653. HIGH SCHOOL PRINCIPAL'S WORKSHOP. *Credit 3.* Study and solution of problems arising in secondary schools.

713. FUNDAMENTALS OF SCHOOL ADMINISTRATION. (3-0) *Credit 3.* Open to graduate students who hold or are appointed to positions as principals, or supervisors, or who have consent of Director. History, principles, and practices in school administration; intensive study of problems (general and specific) involved in school administration.

723. RURAL SCHOOL SUPERVISION. (3-0) *Credit 3.* Principles underlying present-day supervision. Relationship of classroom teachers to supervisor, principal, and superintendent.

733. CHILD ACCOUNTING. (3-0) *Credit 3.* Principles and systems of child accounting. Courses, attendance, progress, achievement, classification, and guidance records and reports.

743. PRINCIPLES OF CURRICULUM BUILDING. (3-0) *Credit 3.* Open to graduate students who hold positions as principals or supervisors or who have consent of Director. Principles of curriculum construction in elementary and secondary education; investigates the sources of curriculum materials and methods of evaluation; some aspect study of the curriculum is required of all students desiring credit.

753. PRINCIPLES AND PRACTICES OF SUPERVISION. (3-0) *Credit 3.* Open to graduate students who hold or are appointed to supervisory or administrative positions, or who have consent of Director. Some practice in application of principles required of all. Principles, practices and problems of supervision. Special attention is given to organization for supervision, supervisory programs, research in supervision, cooperation of special agencies, and qualifications for supervisors.

763. PRINCIPLES OF RURAL SCHOOL ADMINISTRATION. (3-0) *Credit 3.* Open to graduate students holding administrative and supervisory positions in rural areas. Principles, practices, and problems of school administration with emphasis upon problems of schools located in rural areas. Reports required of all.

773. THE HIGH SCHOOL PRINCIPAL AS A SUPERVISOR. (3-0) *Credit 3.* Improvement of instruction; evaluation of teaching procedures; selection and use of textbooks and other instructional material in elementary grades.

783. THE ELEMENTARY PRINCIPAL AS A SUPERVISOR. (3-0) *Credit 3.* Improvement of Instruction; Evaluation of Teaching Procedures; selection and use of text books and other instructional materials in elementary grades.

793. SUPERVISORS WORKSHOP. *Credit 3.* (Credit granted in areas of elementary and secondary education.)

ELEMENTARY EDUCATION

563. TEACHING OF ARITHMETIC IN ELEMENTARY GRADES. (3-0) *Credit 3.* A survey of current issues, including: teaching arithmetic through pupils' first hand experiences; the place of meaning, thinking; and drill in effective learning; the grade placement of topics in arithmetic; approved procedures in adapting instruction to pupils of varying ability.

633. TEACHING READING IN THE ELEMENTARY GRADES. (3-0) *Credit 3.* Special attention is given to the problem of when the child is ready to start learning to read, and the steps in beginning reading, techniques to be followed in developing the three additional stages of reading development, and how to make the pupil efficient in reading in general in school work.

653. ARTS AND CRAFTS IN PUBLIC SCHOOL. (3-0) *Credit 3.* Teaches prospective elementary teachers how to present art to children.

663. SPECIAL PROJECTS IN PUBLIC SCHOOL ART. (3-0) *Credit 3.* Methods, procedure and phases of teaching art; problems of art education and methods of teaching art.

683. ELEMENTARY SCHOOL CURRICULUM. (3-0) *Credit 3.* Study of important developments in elementary education with particular attention to methods and materials which may be used to improve the development of pupils in elementary schools. Problems which are encountered in day-to-day teaching situations receive much attention.

743. PROBLEMS OF THE ELEMENTARY TEACHER. (3-0) *Credit 3.* Open to undergraduates who are teachers in service and to graduate students. Special projects, investigations, and reports required; attention given to problems presented by members of the class as the outgrowth of their experiences.

753. TEACHING THE LANGUAGE ARTS IN THE ELEMENTARY SCHOOL. (3-0) *Credit 3.* For those interested in guiding and directing children of elementary school age in reading and in oral and written composition; special emphasis placed on diagnosis and remedial work in reading.

763. TEACHING SOCIAL STUDIES IN THE ELEMENTARY GRADES. (3-0) *Credit 3.* Emphasis upon improving the social learning which grows out of the entire life of children both in and out of school. Selection and organization of content, learning activities, problem solving and social action skills, building social values and developing methods of unified and correlated social studies program.

773. TEACHING OF SCIENCE IN THE ELEMENTARY GRADES. (3-0) *Credit 3.* Emphasis is placed upon the principles, materials and methods of teaching science, and its influence upon the development of children, in the elementary grades. Laboratory work is designed to help the teacher develop a background of science understanding with suitable experiments, and suggestions for appropriate equipment and suitable materials for various age levels.

783. MODERN PRACTICES IN ELEMENTARY EDUCATION. (3-0) *Credit 3.* For in-service teachers.

793. DIAGNOSIS AND REMEDIAL TREATMENT OF ELEMENTARY SCHOOL SUBJECTS. (3-0) *Credit 3.* Techniques of diagnosis and remedial treatment of difficulties in the various elementary school subjects at all levels.

GENERAL EDUCATION

500. MASTER'S ESSAY SEMINAR. *Non-credit.* Required of all candidates for Master of Education degree.

703. MODERN EDUCATION TENDENCIES. (3-0) *Credit 3.* Current educational doctrine and controversies; fundamental problems considered with a view to the development of an integrated outlook.

713. HISTORY OF EDUCATION IN AMERICA. (3-0) *Credit 3.* Historical background of American Education and an analysis of the origin and development of educational practices.

763. PROBLEMS IN THE EDUCATION OF NEGROES. (3-0) *Credit 3.* Special problems in the education of Negroes which result from segregation and discrimination; attention given to such problems as adequacy of public education, equality of opportunities, the general status of Negro schools, educational facilities, etc.

843. TECHNIQUES IN EDUCATIONAL RESEARCH. (3-0) *Credit 3.* Study of research in education, the sources of information and techniques available, and approved form and style in preparation of research reports and thesis.

PSYCHOLOGY

523. PRINCIPLES AND PRACTICES OF EDUCATIONAL MEASUREMENT. (3-0) *Credit 3.* The place of tests and measurements in education; selection and construction of the most commonly used tests and measurements. Prerequisite: Education 433. See Education 433 in undergraduate catalog.

563. MENTAL ADJUSTMENT. (3-0) *Credit 3.* Personality as an intergrated force; psychology of the adjusted school child. Prerequisite: Psychology 103.

573. PSYCHOLOGY FOR STUDENTS OF EDUCATION. (3-0) *Credit 3.* See Education 383, of current catalog. General principles of human psychology as they relate to the learning process.

593. PUPIL GROWTH AND DEVELOPMENT. (3-0) *Credit 3.* A study of the growth and development of the individual. Emphasis on problems of inheritance, growth, learning, intelligence, emotion, and personality. Consideration given to fundamental psychological needs of the organism (in the growth cycle in infancy, childhood, adolescent and adulthood) and the conditions under which they may be realized. Applications to educational procedure, on home, school and community.

RURAL EDUCATION

743. THE RURAL ELEMENTARY CURRICULUM. (3-0) *Credit 3.* For rural school principals, supervisors and teachers specifically concerned with curriculum adaptations in rural elementary schools. The development of the curriculum in terms of environment, resources, and needs; and specifically adapted organization for school of one to four teachers; procedures for discovering environmental resources and needs and conditions in sample rural communities considered in their implications for selection and organization of curriculum materials.

713. SCHOOL AND COMMUNITY RELATIONS. (3-0) *Credit 3.* Place of education, the responsibility of the public school, the curriculum, the reorganization of the educational administrative structure, and the provisions of special educational services, as they relate to child and community needs and methods for their provision from the standpoint of the whole child and the community as a whole. The community centered school philosophy emphasized.

HEALTH EDUCATION

543. SAFETY EDUCATION. (3-0) *Credit 3.* Survey courses in safety education; organization, administration, history and development, methods, materials and procedures in teaching safety on the various levels; aspects of safety with particular emphasis on driver education and training.

593. NUTRITIONAL ASPECTS OF HEALTH EDUCATION. (3-0) *Credit 3.* Essentials of an adequate diet; the food of persons of different ages; and the nutritive values of common food materials considered; special concern given regarding the relationship of nutrition and health education; materials from the various agencies, diet surveys and projects included in the course.

603. A SURVEY COURSE IN THE EDUCATION OF EXCEPTIONAL CHILDREN. (3-0) *Credit 3.* Foundations for Special Education set forth; its history, philosophy, policy, case studies, measurements and guidance, selection, organization and qualifications of teachers.

Brief consideration given the special classroom assistance for exceptional children with some knowledge of the various types of handicapped children.

623. METHODS IN HEALTH EDUCATION. (3-0) *Credit 3.* Methods and techniques of teaching health in elementary and secondary schools.

633. METHODS AND MATERIALS OF TEACHING HEALTH AND PHYSICAL EDUCATION IN ELEMENTARY SCHOOLS. (3-0) *Credit 3.* Study of Fundamental play needs of children of elementary school level; ability to select appropriate equipment and the formation of tentative curriculum; sources of materials in the field.

643. THEORY AND PRACTICE IN RECREATIONAL AND CAMPING LEADERSHIP. (3-0) *Credit 3.* In addition to classroom work in the various aspects of Recreation and Camping Education, course deals with actual laboratory experiences in the development of such programs. These include the organization of camps, community centers, playgrounds and consider health and safety aspect, work experiences, social leadership activities and practice in the dance, games and sports skills.

723. COMMUNITY PLANNING FOR HEALTH. (3-0) *Credit 3.* Acquaints the prospective teacher of health education with the fundamentals, habits and knowledge necessary to healthful living; and an overview of prominent health problems in the school and community.

Special attention also given to progressive teaching methods and use of modern teaching aids in health education.

SECONDARY EDUCATION

503. PRINCIPLES OF SECONDARY EDUCATION. (3-0) *Credit 3.* See general catalogue for course description, Education 313. Graduate Students will be required to develop term papers and give special reports. Prerequisite: Education 113, 333.

673. METHODS OF TEACHING SECONDARY SCHOOL SUBJECTS. (3-0) *Credit 3.* General methods treating the principles and practices of successful high school teaching.

ENGLISH

Admission: For admission to graduate study in English a student should present at least an undergraduate minor, 21 hours in this field. This undergraduate study should include at least three hours of credit in Public Speaking and in the following courses above the sophomore level: American Literature, Journalism, Shakespeare, Victorian Literature, Romantic Movement or a specialized course such as Chaucer, Byron, Wordsworth. A student is expected to pass an English Proficiency Test before admission to candidacy is approved.

Prerequisite courses such as The English Language (English 353), The Teaching of English; Education (English 463), which the student did not take while an undergraduate at this college, must be taken before the student begins the courses in the graduate program.

Requirements for the Graduate Degree: Requirements are stated in terms of minimum essentials. Students are urged to indicate some effort at enrichment of background by including in their program more than the minimum essentials. The following courses are required to fulfill the 20 credit hours required for a graduate major in English:

Course. No.	Credit Hours
English 533	3
English 583	3
English 733	3
English 773	3
Course. No.	Credit Hours
English 813	3
English 803	3
English 823	3

Of the 12 credit hours required for the graduate minor in English the following courses are required:

Course. No.	Credit Hours
English 733	3
English 773	3
English 823	3
English 803	3

DESCRIPTION OF COURSES

ENGLISH

533. NINETEENTH CENTURY PROSE. (3-0) *Credit 3.* Ideas, political and social conditions as revealed in the writings of chief representatives of the period.

583. THE NOVEL. (3-0) *Credit 3.* Relations between literature and social conditions as revealed in outstanding examples in the field in the novel.

733. SPEECH ARTS. (3-0) *Credit 3*. Practical work in speech construction, platform delivery, parliamentary procedure, and play production. The student should allow not less than three dollars for the purchase of practice material.

753. JOURNALISTIC WRITING AND PUBLICITY METHODS. (3-0) *Credit 3*. Practical work in the forms.

773. NEGRO LITERATURE. (3-0) *Credit 3*. Works of Negro writers of prose, poetry, and drama from colonial slavery times to the present day; their interpretation of Negro people; sociological implications and influence on American life and literature; contemporary works by and about Negroes; books, reviews, and studies in current periodicals. Prerequisite: American Literature.

803. BIBLIOGRAPHY AND METHODS OF RESEARCH. (3-0) *Credit 3*. Exercises in minor research projects.

813. SEMINAR IN THESIS WRITING. (3-0) *Credit 3*. Open only to candidates who are now working on their thesis in English.

823. LITERARY CRITICISM. (3-0) *Credit 3*. Wide reading including translations from "classical" literature; practice in reading aloud.

HISTORY

Majors and minors are offered in the Department of History, Philosophy and Political Science. Students desiring to major in either History or Political Science should consult with the Head of the Department and plan a program in conjunction with the Major Professor.

All students are required to take a course in Research. Majors in History should register for History 563 and majors in Political Science for Political Science 563.

Arrangements should be made to take this course as early as possible after the commencement of the work for the Master's Degree.

The offerings in History on the graduate level have been divided into three fields: (1) European History; (2) American History; (3) Training and Special Courses in History.

Twenty hours of satisfactory work is required for a major in the field of History, and ten hours for the minor. The satisfactory completion of a thesis, the subject of which to be determined in consultation with major professor, is required of all persons graduating with a major in this field. Minors in this field are allowable only if the candidate can demonstrate that the techniques in this field are necessary for his research

project or that the minor field is reasonably associated with the major specialty in content and orientation.

Prerequisites for majoring or minoring in the field of History are: (a) Lower college courses in American and European History corresponding to the lower college offering in the field at Prairie View; (b) At least an advance course in either modern and/or contemporary European or American History; (c) A cumulative average of "B" in their social science courses on the undergraduate level; (d) Preliminary to the graduate regulation on candidacy for the degree, no person shall be acceptable for pre-candidacy status if at the end of the first semester he has not shown the proper inclination to master the skills and attitudes attendant upon graduate students.

MASTER OF ARTS IN HISTORY WITH AMERICAN ORIENTATION

Course	Hours	Course	Hours
History 533 or 543—England, 1485 to the present	3	History 623—Problems in Latin American History	3
History 553—Europe, 1914 to the present	3	History 663—Great American Historians (elective)	
History 563—Historical Methods	3	History 613—American Revolution and the Constitution (elective)	
History 693—The New South, 1865 to the present	3	History 633 or 643—American Foreign Relations, 1775 to the present (elective)	
History 653—Contemporary U. S. History, 1898 to present	3		

MASTER OF ARTS IN HISTORY WITH EUROPEAN ORIENTATION

Course	Hours	Course	Hours
History 533 or 543—England, 1485 to the present	3	History 623—Problems in Latin American History	3
History 553—Europe, 1914 to the present	3	History 563—Historical Methods	3
History 733—History of the Far East	3	History 633 or 643—American Foreign Relations, 1775 to the present (elective)	
History 523—Imperialism	3	History 653—Contemporary U. S. History, 1898 to present (elective)	
History 513—French Revolution and Napoleon (elective)			

Students seeking a Master's Degree in History should present well chosen courses from these fields and pursue further work in one field or a combination of fields in consultation with the Professor of History.

I. EUROPEAN HISTORY

513. FRENCH REVOLUTION AND NAPOLEON. (3-0) *Credit 3.* Causes of the revolution; reforms and discipline by Napoleon.

523. IMPERIALISM. (3-0) *Credit 3.* Era of Imperialism; causes, results and techniques.

533 and 543. ENGLAND, 1485 TO THE PRESENT. (3-0) *Credit 3. I.* Development of Britain in Modern historical development; Tudors and the Reformation; the Stuarts and Parliament; English exansion under Parliamentary rule; the Era of Reform and Empire; the Empire and World War I, Britain between the Wars; the Fight for Survival—Global War. Lectures, Discussions, Special Reports. Offered in odd years.

553. EUROPE, 1914 TO THE PRESENT. (3-0) *Credit 3. I.* 20th Century European development in its World setting; the background and causes of World War I; the War itself; the Versailles settlement and Post War efforts at Political, Economic and Social Security, collectively and nationally; the ideological clash between democracy and totalitarianism which led to Global War and the Atomic Age—from the subject matter of the course. Lectures, discussions, special reports. Offered in odd years.

663. GREAT AMERICAN HISTORIANS. (3-0) *Credit 3.* Survey of the writers of American History; their sociological, economic and political motivations.

II. AMERICAN HISTORY

613. AMERICAN REVOLUTION AND THE CONSTITUTION. (3-0) *Credit 3.* Revolutionary philosophy; declaration of independence; union and drafting the constitution.

633 and 643. AMERICAN FOREIGN RELATIONS, 1775 TO THE PRESENT. (3-0) *Credit 3. I and II.* The United States in its relations with Latin-America and the rest of the world; public opinion and the economic, social and political forces that have determined American foreign policy and the agencies through which that policy has been executed. May be taken as Political Science 533 and 543.

653. CONTEMPORARY UNITED STATES HISTORY, 1898 TO THE PRESENT. (3-0) or (2-0) *Credit 3 or 2. II.* Twentieth Century American development thus: America comes of age; the quest for Social Justice; the Great Crusade (World War I); Post War Normalcy and Reaction; Democracy in Transition—the New Deal; and American Leadership in the "United Nation." Lectures, Discussions, special reports.

663. ECONOMIC HISTORY OF THE UNITED STATES. (3-0) *Credit 3. I.* Historical review of the development of agriculture, commercial, industry, and business from colonial times to the present; social and economic forces in American society with attention to various mass movements; industrialization of the country and the necessity for governmental regulations; historical interpretation of trade unions, employer's associations, cooperatives.

673. ECONOMIC HISTORY OF THE SOUTH. (3-0) *Credit 3. II.* The agricultural and industrial development of the South; the industrialization of the Southwest; field trips, contact with state Historical Societies to obtain documents, and preparation for the writing and publication of materials.

683. SECTIONALISM AND CIVIL WAR 1700-1865. (3-0) *Credit 3. I.* Regional Hypothesis; Socio-economic Regionalism; Government, Politics, and the Regional Compromise in the Middle Period; Ideas in Embrogliā—

Issues and Men; Reconstruction and the New Nation. Lectures, Discussions, Special reports.

693. THE NEW SOUTH, 1865 TO THE PRESENT. (3-0) *Credit 3*. II. Relation of the South to National development since 1860; the Death of the Old South; Reconstruction and the New Nation; the "Due Departure" 1876-1900; Southern strivings to follow National Patterns, 1900-1932; the New Deal and the New South. Lectures, Discussions, Readings, Special Reports.

III. TRAINING AND SPECIAL COURSES

503. TECHNIQUES OF TEACHING HISTORY. (3-0) *Credit 3*. Testing devices; visual aids; historical methods.

563. SURVEY OF THE CRITICAL ATTITUDE AND TOOLS OF SCIENTIFIC HISTORY. (3-0) *Credit 3*. I or II. History and its relation to the Social Sciences; the Subject and the Collection and Classification of Sources; the criticism of Data; Exposition or the presentation of historical evidence; and sources and techniques of political science research, lectures, laboratory exercises, special reports. Offered as Sociology 563, Social Research. History majors register for History 563.

572. HISTORICAL INVESTIGATIVE PAPER. (2-0) *Credit 2*. I and II. Credit allowed upon satisfactory completion of required thesis.

603. WESTERN AMERICAN HISTORY. (3-0) *Credit 3*. II. Seminar in the exploration, settlement and development of the region western side of the Mississippi; designed to discover and preserve materials on the early Sanish, French, African and Anglo-Saxon explorations and the contributions of the immigrants who made their homes in the Western region later.

623. PROBLEMS IN LATIN-AMERICAN HISTORY. (3-0) *Credit 3*. I. Geography and resources of the Latin-American countries; cultural traits of the population; description of the social, political and economic institutions. History of the relations between the United States and Latin-American countries.

733. HISTORY OF THE FAR EAST. (3-0) *Credit 3*. Political institutions of China, Japan and other Far Eastern Countries.

MATHEMATICS

A person holding the Bachelor of Science degree with a major in Mathematics is eligible for admission to graduate study leading to the Master of Science in Mathematics with emphasis in Geometry, Algebra or Analysis.

Courses with emphasis in Geometry include:

- 343 Solid Analytic Geometry
- 363 College Geometry — Higher Plane Curves
- 713 Advanced Calculus
- 763 Differential Equations
- 773 Projective Geometry
- 783 Differential Geometry

Courses with emphasis in Algebra include:

- 703 Modern Algebra
- 713 Advanced Calculus
- 733 Advanced Algebra
- 793 Infinite Series
- 803 Numerical and Literal Solutions of Equations
- 813 Introduction to Algebraic Theory
- 833 Number Theory
- 873 Probability

Courses with emphasis in Analysis include:

- 623 Measure Theory
- 713 Advanced Calculus
- 743 Statistics
- 753 Partial Differential Equations
- 793 Infinite Series
- 853 Calculus of Variation
- 863 Real Variables
- 893 Complex Variables

MATHEMATICS

623. MEASURE THEORY. (3-0) *Credit 3.* Fundamental topics on sets and classes, including Lebesgue Measure, Jordan Measure, rings. Integrable simple functions and pointwise convergence.

703. MODERN ALGEBRA. (3-0) *Credit 3.* Fundamental concepts of Algebra, integral domains, fields. Introduction to such concepts as groups, vector spaces, and lattices.

713. ADVANCED CALCULUS. (3-0) *Credit 3.* Advanced topics of the calculus; differential equations. Prerequisites: Differential and Integral Calculus.

723. ANALYTIC MECHANICS. (3-0) *Credit 3.* Statics, the study of equilibrium and dynamics, motion of particles, of rigid bodies, and simple cases of formable bodies under action of forces. Prerequisites: Differential and integral Calculus.

733. ADVANCED ALGEBRA. (3-0) *Credit 3.* Topics not taken up in the elementary courses of college Algebra; inequalities, theory of probability, summation of series, etc. Prerequisite: College Algebra.

743. STATISTICS. (3-0) *Credit 3.* Processes of statistical methods with reference to applications in various fields. Prerequisite: Analytic Geometry.

753. THEORY OF EQUATIONS (3-0) *Credit 3.* Complex numbers, general calculations of the cubic and biquadratic, and Horner's and Newton's method. Prerequisite: Differential and Integral Calculus.

763. DIFFERENTIAL EQUATIONS. (3-0) *Credit 3.* Methods of solving type forms and the formulation of practical problems as solutions of differential equations. Prerequisites: Differential and Integral Calculus.

773. PROJECTIVE GEOMETRY. (3-0) *Credit 3.* Fundamental forms; harmonic sets, perspectivity and projectivity of forms, duality involution Prerequisite: Calculus.

783. DIFFERENTIAL GEOMETRY. (3-0) *Credit 3.* Curves in the plane and in space, and of surfaces; introduction to the study of curved spaces. Prerequisites: Calculus and Solid Analytic Geometry.

793. INFINITE SERIES. (3-0) *Credit 3.* The convergence and divergence of sequences, and series; simple, absolute, and uniform convergence; summable series. Prerequisites: Differential and Integral Calculus.

803. NUMERICAL AND LITERAL SOLUTIONS OF EQUATIONS. (3-0) *Credit 3.* The methods of solving linear, simultaneous, quadratic, cubic, quartic, transcendental, and algebraic equations of higher degrees than the fourth for real roots, as well as methods for complex roots. Prerequisites: Theory of Equations on consultation with the Head of the Department.

813. INTRODUCTION TO ALGEBRAIC THEORY. (3-0) *Credit 3.* Theory of linear transformations by use orthogonal unitary, and hermetian matrices. Linear dependence, covariants, invariants, and eliminants.

833. NUMBER THEORY. (3-0) *Credit 3.* Solutions of linear congruences, the Pell equation and its solution by partial fraction expansion. Use of continued fractions to represent certain important constants.

853. CALCULUS OF VARIATIONS. (3-0) *Credit 3.* The concept of maximizing in integral to determine a curve; Euler's equation, parametric equations, and Hamiltonian Principles, and applications to practical problems.

863. REAL VARIABLES. (3-0) *Credit 3.* Introduction to point sets, rigorous approach to the concept of function and limit, the Riemann integral, the Lebesgue integral, and some of their generalizations.

873. PROBABILITY. (3-0) *Credit 3.* Theory of Permutations, combinations, distributions, repeated trial, hitting a target, and discussion of the probability integral.

893. COMPLEX VARIABLES. (3-0) *Credit 3.* Rational functions of a complex variable, conformal mapping, Cauchy-Riemann equations, Analytic continuation, Residues and applications.

MUSIC

The College offers courses leading to the degree of Master of Arts with a major in Music. This degree is open to persons holding a Bachelor of Music or Bachelor of Science or Arts with concentration in music from an institution of recognized standing. These degrees presented as entrance requirements in the graduate department must represent an amount of work equivalent to that prescribed in the School of Arts and Sciences of Prairie View A. & M. College.

Candidates for the master's degree may major in theory, piano, voice or music education.

MUSIC EDUCATION

Requirements:

12 to 15 Hours—30 hours in all subjects

1. Courses in the field:
Courses in general education or psychology; or English Literature. Language or History as well as the music courses.
Thesis: A written literary work involving original research.
2. Applied Music (6 hours minimum)
Continuation of one's applied instrument.

3. Minor Cognates: Any one:—

Aural Theory
Written Theory
Music Literature

Any non-musical field of study for which the student has the requisite preparation in his bachelor's degree.

Twelve to fifteen hours. (30 hours in all subjects)

683. THE TEACHING OF MUSIC LITERATURE. (3-0) *Credit 3.* The problems involved in the presentation of music appreciation to high school students.

773. PROBLEMS IN TEACHING SIGHT-SINGING AND EAR TRAINING. (3-0) *Credit 3.* Students must audit first-year courses and engage in practice teaching plus one hour of theory and one hour of lecture.

863. TESTS AND MEASUREMENTS IN MUSIC EDUCATION. (3-0) *Credit 3.* Procedures, criticisms, and evaluation of the most prominent sensory motor, feeling and achievements in music.

873. TEACHING OF VOCAL MUSIC IN THE HIGH SCHOOL. (3-0) *Credit 3.* Organizations and administration of (a capella) choirs, boys' chorus or glee clubs, girls' chorus or glee clubs, and voice training classes.

883. THESIS. A written literary work involving original research.

893. THE TEACHING OF INSTRUMENTAL MUSIC IN THE HIGH SCHOOL. (3-0) *Credit 3.* The organization and administration of bands and orchestras in the junior and senior high school.

973. SEMINAR IN MUSIC EDUCATION. (3-0) *Credit 3.* Current philosophy of education in this country; the place of music in the curriculum; review and criticism of music curricula, and evaluation of materials and methods of the various types of music schools existing in America. Special study of some problems associated with that aspect of music teaching in which interested.

983. RESEARCH IN MUSIC EDUCATION. (3-0) *Credit 3.* Independent investigations under supervision, leading to a thesis. (In certain cases a laboratory problem in the psychology of music may be submitted as a thesis).

993. THE PSYCHOLOGY OF MUSIC. (3-0) *Credit 3.* Materials from the science of psychology; current psychological tests and measurements in music; review of the experimental laboratory work on factors which make up the musical mind.

THEORY

Requirements:

12 to 15 hours—30 hours total for degree

1. Thesis: A written literary work involving original research, or an arrangement of a work, or an original work for full symphony orchestra.
2. Student must include 953, 783 and 793 or 763.
3. Applied Music: (6 hours)
Continuation of one's applied instrument

4. Minor cognate: Any one:—

School Music
Applied Music
Music Literature

Any non-musical field of study which the student has the requisite preparation in his bachelor's degree.

Twelve to fifteen hours (30 hours total in all subjects)

653. ADVANCED SCORE READING. (3-0) *Credit 3.* Transpositions and various clefs for instruments and voices; ranges of instruments; introduction to the playing of vocal and instrumental scores since the 16th century; practice in sight reading and studying such scores.

673. DICTATION AND SIGHT-SINGING. (3-0) *Credit 3.* Advanced courses in aural theory.

693. ANALYSIS OF FORM. (3-0) *Credit 3.* Practical analysis of intermediate and larger forms, eighteenth and nineteenth century harmony as illustrated in the works of Haydn, Mozart, Beethoven, Brahms, Franck, etc.

763. ADVANCED ORCHESTRATION. (3-0) *Credit 3.* Scoring for full symphony orchestra.

783. CONTRAPUNTAL AND CHROMATIC DICTATION. (3-0) *Credit 3.* Dictation and two and three-part counterpoint, and four-part chromatic harmony.

793. CHROMATIC AND MODERN HARMONY. (3-0) *Credit 3.* Harmonic materials and technique from creative and analytical angles; harmonic idiom on the period from the late nineteenth century to the present.

833. ADVANCED ORCHESTRAL CONDUCTION. (3-0) *Credit 3.* Conducting from chamber music and classical symphonic scores; conducting from Romantic and Modern scores. Examination of school music and classical symphonic scores. Examination of school music materials. Interpretation of the larger forms of instrumental music.

883. THESIS. *Credit 3.* A written literary work involving original research or an arrangement of a work, or an original for full symphony orchestra.

953. ADVANCED ANALYTICAL HARMONY. (3-0) *Credit 3.* Harmonic analysis of Chorales of Bach; piano sonatas of Beethoven, violin sonatas of Brahms, and symphonic works of Mozart, Beethoven, Wagner and Franck.

PIANO

Requirements:

Undergraduate recital already given.

1. Three complete concertos
2. Material for two programs
3. Public performance of a concerto; chamber ensemble, and one recital program

Four hours of daily practice; two one-hour lessons, one hour studio class each week; if possible, three hours each semester

12 to 15 hours credit required (In Piano alone, 30 hours total for degree)

MUSIC 613—*Credit 3.* Three concertos of contrasting type (Mozart, Beethoven, Brahms, Schumann, Chopin, Liszt, Tschaiakowsky, Rachmaninoff, etc.)

MUSIC 623—*Credit 3.* Sufficient material for two programs including three of four major compositions of the classical and romantic school. These programs should also include a varied selection of the representative modern compositions.

Bach—Italian Concerto, toccatos, transcription by Tausig, Pusoni, Liszt, etc., Chromatic Fantasy and Fugue.

Beethoven—A sonata of the grade of difficulty of Op. 53, 57, 109, 110, 111, or Chopin Sonata, and an earlier sonata; or one of Mozart, or a modern one.

Romantic Composers — Schumann — (Etude Symphoniques); Franck — (Prel., Choral and Fugue) Brahms-Handel—(Variations and Fugue); Liszt—(Sonata, etc.)

Modern Composers—Debussy, Ravel, Scriabin, etc., Contemporary Moderns including American Composers.

MUSIC 713—*Credit 3.* Must give a public recital of a concerto in its entirety; some ensemble (Chamber, if possible), and a complete piano program.

MUSIC 723—*Credit 3.* Must have two sequences in minor cognates as: Aural Theory, Written Theory, Music Literature, Music Education or non music subjects for which the student has adequate preparation. Also if desired, applied music other than piano.

VOICE

Requirements:

Undergraduate recital already given.

1. Two complete roles appropriate to the voice
 2. Two complete oratorio roles.
 3. Public performance with orchestra (an aria); one recital (artist's).
- Three hours of daily practice; 2 one-hour lessons; one hour studio class if possible each week. 3 hours credit each semester.

12 to 15 hours credit required in voice alone (30 hours total for degree)

MUSIC 633—*Credit 3.* A minimum of 6 songs in each of the four languages (in addition to the undergraduate degree)—English, French, German and Italian.

MUSIC 643—*Credit 3.* Four arias (Languages not specified).

753. THE TEACHING OF VOCAL AND INSTRUMENTAL MUSIC IN THE ELEMENTARY SCHOOL. (3-0) *Credit 3.* The organization and administration of rhythm bands and small instrumental groups in the elementary school.

DEPARTMENT OF PHYSICAL EDUCATION AND HEALTH

REQUIREMENTS FOR MASTER OF SCIENCE DEGREE IN PHYSICAL EDUCATION

Students without undergraduate major or minor in Physical Education will be required to complete additional courses designed to give them competence in the areas of subject matter that are basic to this field. A demonstration of skill in teaching a wide variety of Physical Education activities is required. Courses listed below are prerequisite courses:

I. BASIC SCIENCES

A. Minimum

1. Zoology (or its equivalent)
2. Anatomy
3. Physiology

II. HEALTH EDUCATION COURSES:

A. Minimum (choice of two)

1. Personal Hygiene
2. Principles of Health Education
3. Methods of Health Education
4. Health Education

III. TECHNICAL TRAINING IN PHYSICAL EDUCATION

A. Minimum 12 hours and 2 semesters of practice

- | | |
|---|-------------|
| 1. Physical Education Practice | 2 semesters |
| 2. Introduction to Physical Education | 3 hours |
| 3. History and Principles of
Physical Education | 3 hours |
| 4. Organization and Administration
of Physical Education | 3 hours |
| 5. Methods and Materials in
Physical Education | 3 hours |

Students with an undergraduate major or its equivalent, requirements for Master of Science degree in Physical Education:

I. BASIC SCIENCE

A. Minimum: 6 hours

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|--|---------|
| 1. Physiology of Muscular exercise | 3 hours |
| 2. Kinesiology | 3 hours |

II. HEALTH EDUCATION COURSES

A. Minimum 3 hours

- | | |
|---|---------|
| 1. Methods in Health Education
(Or its equivalent) | 3 hours |
|---|---------|

III. TECHNICAL TRAINING IN PHYSICAL EDUCATION

A. Minimum 12 hours

- | | |
|---|---------|
| 1. Playground and
Community Recreation | 3 hours |
| 2. Administrative Problems in
Physical Education | 3 hours |
| 3. Intramural Athletics | 3 hours |

- | | |
|--|---------|
| 4. Tests and Measurements in
Physical Education | 3 hours |
| 5. Organization and Administration
of High School Athletics | 3 hours |

MINOR IN PHYSICAL EDUCATION

Students without an undergraduate major or minor in Physical Education will be required to complete additional courses. Listed below are prerequisite courses to a minor in Physical Education.

I. BASIC SCIENCE

A. Minimum 8 hours

- | | |
|--------------------------------------|---------|
| 1. Zoology (Or its equivalent) | 4 hours |
| 2. Anatomy and Physiology | 4 hours |

II. HEALTH EDUCATION COURSES

Minimum: (Choice of one)

- | | |
|--------------------------------------|---------|
| 1. Personal Hygiene | 3 hours |
| 2. Methods of Health Education | 3 hours |

III. TECHNICAL TRAINING IN PHYSICAL EDUCATION

A. Minimum: 10 hours

- | | |
|--|---------|
| 1. Physical Education Practice | 4 hours |
| 2. Introduction to P. E. | 3 hours |
| 3. Methods and Materials of
Teaching Physical Education | 3 hours |

Students who have satisfied the above requirements may minor in Physical Education by following the schedule below:

I. HEALTH EDUCATION COURSES

A. Minimum: Choice of one (3 sem. hrs.)

- | | |
|---|---------|
| 1. Principles of Health Education | 3 hours |
| 2. Methods of Health Education | 3 hours |

II. TECHNICAL TRAINING IN PHYSICAL EDUCATION

A. Minimum: (Choice of three) (9 sem. hrs.)

- | | |
|--|---------|
| 1. Organization and Adm. of P. E. | 3 hours |
| (or) Organization and Adm. of
High School Athletics | |
| 2. Methods and Materials in
Physical Education | |
| (or) Methods and Materials in Elem. Schools.. | 3 hours |
| 3. Intramural Athletics | 3 hours |
| (or) Playground and Community Recreation | |

PHYSICAL AND HEALTH EDUCATION

Prerequisites for a graduate major will ordinarily consist of not less than 20 semester hours of undergraduate credits in the chosen field or in some related field. A graduate minor will ordinarily be based upon not less than 12 semester hours of undergraduate work.

If the transcript of the undergraduate record of a student does not meet the above qualifications, additional satisfactory undergraduate work will be required before the student is admitted to graduated status.

It should be clearly understood that admission to the graduate school does not imply admission to candidacy for a degree.

Courses for which graduate credit may be obtained are numbered above 500. Courses numbered from 300 to 499 are for graduates and undergraduates.

Twenty semester hours of work in Physical Education Theory are required for a major, and ten hours of work for a minor.

Courses in Health Education have been listed under education.

COURSES

613. INDIVIDUAL PHYSICAL EDUCATION. (3-0) *Credit 3.* I or II. Making a Physical Education program meet the needs of handicapped individuals; fundamental principles in the selection and adoption of activities in corrective procedure; abnormal physical conditions that come to the care or attention of the physical director; lectures, recitations, demonstrations, reports. Prerequisite: Physical Education 314 and 324.

623. ADVANCED PERSONAL AND COMMUNITY HYGIENE. (3-0) *Credit 3.* I or II. Survey of significant facts related to hygiene and physiology as they bear upon personal and community life; health agencies which function in community living.

633. METHODS AND MATERIALS OF TEACHING HEALTH AND PHYSICAL EDUCATION IN ELEMENTARY SCHOOLS. (3-0) *Credit 3.* Study of fundamental play needs of children of elementary school level; selection of appropriate equipment and the formation of tentative curriculum.

643. CONDITIONING OF ATHLETES AND CARE OF INJURIES. (3-0) *Credit 3.* I or II. Conditioning athletes for the various sports; a practical course in First Aid and the care of injuries in the athletic program.

653. ADMINISTRATIVE PROBLEMS IN PHYSICAL EDUCATION. (3-0) *Credit 3.* I or II. Coordination of the different phases of the program; administrative problems of physical education intramural and inter-collegiate athletics.

663. ADVANCED COURSE IN COACHING. (3-0) *Credit 3.* I or II. All phases of team play in football, basketball, track and field athletics; coaching problems.

672. HISTORY AND SURVEY OF THE DANCE. (2-0) *Credit 2.* I or II. Materials and methods in all phases of the dance.

673. PHYSIOLOGY OF MUSCULAR EXERCISES. (3-0) *Credit 3.* I or II. Affects of physical education activities on individual; general affects of exercise upon bodily functions and affects of special types of exercise upon bodily function.

683. TUMBLING, PYRAMIDS AND STUNTS. (3-0) *Credit 3*. I. Open to both men and women; tumbling, pyramids, and stunts in line with the ability of the class; advance work as the progress of the class permits.

693. METHODS AND MATERIALS OF TEACHING PHYSICAL EDUCATION IN HIGH SCHOOL AND COLLEGE. (3-0) *Credit 3*. II. Selection and presentation of material for activities; methods, organization, and teaching techniques.

REQUIREMENTS FOR A MINOR IN HEALTH EDUCATION

Prerequisites to a minor in Health Education

I. BASIC SCIENCE

A. Minimum: 4 hours

- | | |
|--------------------------------------|---------|
| 1. Zoology (or its equivalent) | 4 hours |
|--------------------------------------|---------|

II. TECHNICAL TRAINING IN HEALTH EDUCATION

A. Minimum: 6 hours

- | | |
|---------------------------|---------|
| 1. Personal Hygiene | 3 hours |
| 2. Health Education | 3 hours |
| (or its equivalent) | |

Students who have satisfied the above requirements may minor in Health Education by following the schedule below:

I. TECHNICAL TRAINING IN HEALTH EDUCATION

A. Minimum: 12 hours

- | | |
|---|---------|
| 1. Public School and Community Hygiene | 3 hours |
| 2. Principles of Health Education | 3 hours |
| 3. Methods and Materials in
Health Education | 3 hours |
| 4. Driver Education and Training
(or its equivalent) | 3 hours |
| 5. Mental Hygiene (Psychology) | 3 hours |

POLITICAL SCIENCE

Students entering upon their graduate studies concentrating in Political Science must elect Political Science 563 the first semester of residence and also at least one seminar in Political Science in which the student must write an acceptable investigative paper showing the mastery of writing technique and scholarly proficiency.

Prerequisites for a major in Political Science are: (1) an undergraduate major in Political Science, 30 semester hours of credit; or (2) undergraduate minor in Political Science, 18 semester hours; or (3) a major in Social Science with six semester hours in American Government. Those students who had an undergraduate major in Political Science may elect at least twenty semester hours in Political Science from four of the six fields listed below. Those who present a minor in Politi-

cal Science will be required to elect 24 semester hours in four of the six fields required. Social Science majors will be required to present 24 semester hours in six fields of concentration. All other students desiring to major in Political Science will be required to complete thirty semester hours in the six fields of concentration as listed in the suggested program below.

Majors in Political Science are required to select courses from the following six fields of concentration: (1) American Government; (2) Foreign Governments; (3) Political Parties; (4) Methodology and Theory; (5) Public Administration; and (6) International Law and Relations. Programs of study should be outlined in consultation with the Professor of Political Science.

SUGGESTED PROGRAM FOR MAJOR IN POLITICAL SCIENCE FOR THE MASTER'S DEGREE

Course	Hours
1. American Government Political Science 603 and 633, Constitutional Law	6
2. Foreign Governments Political Science 503, International Organization	3
Political Science 733, Far East	3
3. Political Parties Political Science 723, Political Parties and Election Problems	3
4. Methodology and Theory Political Science 703, Political Theory	3
Political Science 563, Bibliography and Methods of Research	3
5. Public Administration Political Science 583, Public Administration	3
6. International Law and Relations Political Science 533 and 543, American Foreign Relations	6
	30

I. AMERICAN GOVERNMENT

513. AMERICAN LOCAL RURAL GOVERNMENT. (3-0) *Credit 3.* II. Governmental organization and functions of countries, townships and villages; rural government and school boards in Texas.

523. MUNICIPAL ADMINISTRATION. (3-0) *Credit 3.* II. Municipal government and the administrative problems involved in American cities.

II. POLITICAL PARTIES

503. SEMINAR IN INTERNATIONAL ORGANIZATION. (3-0) *Credit 3.* I or II. Description and evaluation of agencies and procedures of international cooperation devised by states during the past 100 years; emphasis on the period since World War I.

723. SEMINAR IN POLITICAL PARTIES AND ELECTION PROBLEMS. (3-0) *Credit 3.* II. Selected election problems in the Southwest; Negro suffrage and voting participations in Texas.

733. SEMINAR IN GOVERNMENT AND POLITICS OF THE FAR EAST. (3-0) *Credit 3.* I or II. Political institutions in China, Japan and other Far Eastern Countries.

IV. METHODOLOGY AND THEORY

563. BIBLIOGRAPHY AND METHODS OF RESEARCH. (3-0) *Credit 3.* Bibliographies; studies in the use of public documents and other sources of materials; investigation and reports on special research problems. This course is required of all majors in Political Science and is offered as Sociology 563. Political Science majors register for Political Science 563.

703. SEMINAR IN POLITICAL THEORY. (3-0) *Credit 2 or 3.* History of political thought from the days of Ancient Greece to the present.

V. PUBLIC ADMINISTRATION

573. SOCIAL LEGISLATION. (3-0) *Credit 3.* Federal and state laws; administration of these laws; degrees of social security.

583. SEMINAR IN PUBLIC ADMINISTRATION. (3-0) *Credit 3.* II. The American administrative system; and common problems underlying branches of administration; lectures, individual and group reports on some aspect of Texas Administration. Each member of the class will be required to make a written term report on some phase of public administration.

633 and 603. AMERICAN CONSTITUTIONAL LAW. (3-0) *Credit 3.* I and II. Principles of American constitutional law; political theories and national development.

VI. INTERNATIONAL LAW AND RELATIONS

503. SEMINAR IN INTERNATIONAL ORGANIZATION. (3-0) *Credit 3.* Agencies and procedures of international cooperation during the past 100 years with emphasis on the period since World War I.

533 and 543. AMERICAN FOREIGN RELATIONS, 1775 TO THE PRESENT. (3-0) *Credit 3.* I and II. The United States in its relation with the world; public opinion, the economic, social and political forces that have determined American foreign policy; and agencies through which policy has been executed.

613 and 623. PUBLIC INTERNATIONAL LAW. (3-0) *Credit 3.* I and II. The law of the international community; historic developments.

713. SEMINAR IN COLONIAL GOVERNMENT AND PROBLEMS OF IMPERIALISM. (3-0) *Credit 3.* The historical imperial system; colonial governments and the problems of imperialism today.

743. SEMINAR IN COMPARATIVE GOVERNMENT AND ADMINISTRATION. (3-0) *Credit 3.* II. British political institutions; contemporary government forms and functions in Europe and America; political theories and philosophies.

SOCIAL SCIENCE

The Social Science program is designed for those persons who desire a teaching major in the field of the social studies.

The program takes into account the current variation in the organization of social studies in the schools and offers opportunity for specialization within the social science area; attention is given to the interrelationships of the various social studies to the subject matter, teaching procedures, and materials in which all teachers of social studies have a common interest, and to the development in the schools of correlated and integrated programs.

Those who desire a major in Social Science must have had an undergraduate major in Social Science or one of the social sciences—history, economics, political science or sociology. For those who have not had an undergraduate major in social science or one of the social sciences as indicated above they must present a minimum of twenty-one semester hours in the social sciences before credit may be earned on a graduate major in Social Science.

Those who desire a minor in Social Science are required to take one of the methods courses—Education 763 or Education 673, Industrial Education 593, History 803 and Sociology 803.

Electives or minor on the graduate level may be taken in any of the Social Sciences for which the student has the prerequisites.

The following courses and experiences are required for a graduate Social Science major:

ECONOMICS

803. ELEMENTARY EDUCATIONAL ECONOMICS. (3-0) *Credit 3.* Current economic problems showing what the school might do to help solve these problems. Materials for elementary and secondary schools, functional school curriculum dealing with the main areas of American life. Economic factors underlying unemployment, the peace, resources, a national minimum and ways in which the schools should deal with these issues. Particularly valuable to elementary and secondary school teachers and other educators who have had little or no work in economics.

EDUCATION

673. TEACHING OF SOCIAL STUDIES IN THE SECONDARY SCHOOLS. (3-0) *Credit 3.* General methods treating the curriculum, methods and materials of successful high school teaching or

763. TEACHING SOCIAL STUDIES IN THE ELEMENTARY GRADES. (3-0) *Credit 3.* Emphasis upon improving the social learning which grows out of the entire life of children both in and out of school. Selection and organization of content, learning activities, problem solving and social

action skills, building social values and developing methods of unified and correlated social studies program.

GEOGRAPHY

803. INDUSTRIAL AND COMMERCIAL GEOGRAPHY. (3-0) *Credit 3.* Fundamental geographic factors which enter into the production, distribution and consumption of raw materials of food, clothing, shelter, metals and mineral fuels-fundamentals of manufacturing and principles of commerce.

HISTORY

803. MODERN AMERICA: SELECTED TOPICS IN AMERICAN HISTORY AND PROBLEMS OF DEMOCRACY. (3-0) *Credit 3.* Aspects of immigration, imperialism, labor and industrial advancements, agricultural adjustments, changing role of the United States in World affairs, and impact of the War on American life. Parallel and contrasting developments in Canada and Mexico. Attention to materials for high school classes.

INDUSTRIAL EDUCATION

593. AUDIO AND VISUAL EDUCATION. (3-0) *Credit 3.* Study of the various audio and visual aids with emphasis on selection, evaluation and technique of educational use; construction and development of various aids and devices; sources of available materials in the fields; practical experience in use of aids as movie projectors, slides film strips, opaque projects, etc.

POLITICAL SCIENCE

803. GEOPOLITICS: EUROPE AND THE NEAR EAST. (3-0) *Credit 3.* Principles of political geography and their application to current history. Geopolitical problems of the Great Powers: Russia, Britain, United States, Germany, Italy and France and requirements for a lasting world peace.

SOCIOLOGY

803. COMPARATIVE CULTURES AND INTERNATIONAL UNDERSTANDING. (3-0) *Credit 3.* Comparison of various world cultures and an analysis of the problems of international understanding, migration of races and peoples, rise of contrasting cultures, problems of inter-cultural conflict and cooperation; world religious and international missionary enterprise; colonial peoples and national minorities, cultural relations and international education. Each student given opportunity to study intensively one particular culture. Use to be made of teaching materials, resources, and films to promote international understanding.

SOCIOLOGY

Students seeking a Master's degree in Sociology should consider the following objectives and requirements:

1. A development of knowledge sufficient to make community surveys necessary for the formulation of programs of community organization.

2. A development of interest and ability of the student in the field of scientific sociology.
3. The development of an appreciation of an ability to interpret native and folk culture of the Nation and the Southwest.
4. The development of the ability to interpret mass behavior so as to make such interpretation functional in leadership.

REQUIREMENTS

Students who major in Sociology must present a minimum of 9 semester hours in undergraduate Sociology with substantial credits in History, Political Science or Economics. Students who have had fewer than 18 hours will be required to complete additional undergraduate hours in Sociology before receiving a Master's Degree.

Students who minor in Sociology should present a minimum of 9 undergraduate hours in any of the Social Sciences.

403. INTRODUCTION TO SOCIAL CASE WORK. (3-0) *Credit 3.* I and II. Presents the point of view of the social case worker regarding human relationships, and appreciation of needs and problems causing individuals to seek help of social agencies and some understanding of the basic process of social case work practices; broad cultural as well as practical value to students going into social work, teaching (especially visiting teaching), medicine, and related professions.

423. INTRODUCTION TO SOCIAL GROUP WORK. (3-0) *Credit 3.* I or II. Fundamentals of professional group work. Deals specifically with group process and behavior, interpersonal relations, the contribution of allied fields, leadership, program, and agencies as a background for employment, in-service training, or professional education.

503. INTRODUCTION TO SOCIAL WELFARE. (3-0) *Credit 3.* I or II. Historical development of social work; fields of specialization; functions of agencies; job opportunities; and contributions of outstanding leaders. Prerequisites: Nine hours of sociology.

513. SOCIAL THEORY. (3-0) *Credit 3.* I. Historical development of theories of social science; the process by which sociology and the various social sciences; came into systematic bodies of knowledge. Prerequisites: Twelve hours of sociology.

523. JUVENILE DELINQUENCY. (3-0) *Credit 3.* II. Nature, extent, and conditions giving rise to Juvenile delinquency; outstanding literature surveyed; programs treating delinquency discussed. Prerequisite: Six hours of Sociology including Criminology.

533. INTRODUCTION TO THE FIELD OF SOCIAL WORK. (3-0) *Credit 3.* I or II. An Orientation Course in the history and field of Social Work. Case work, group work, and social welfare planning as well as professional organization are considered. Required for majors and minors in Social Service.

543. URBAN SOCIOLOGY. (3-0) *Credit 3.* I. Considers the city and its hinterland as a sociological entity; urban neighborhoods, population groupings and movements, social processes, trends, and problems are treated in the light of historical, ecological and social factors.

563. SOCIAL RESEARCH. (3-0) *Credit 3.* II. A study of the various methods of social investigation, such as the social survey, the case study methods, historical, statistical and ecological techniques. Emphasis is placed on the collection, analysis and interpretation of different types of information in connection with special problems of social research. Students are required to complete an individual piece of social investigation.

573. SOCIAL STATISTICS. (3-0) *Credit 3.* II. Techniques of calculating values common to statistical analysis; simple measures of central tendencies through correlation and regression; speed and accuracy on calculating machine emphasized.

583. ANTHROPOLOGY. (3-0) *Credit 3.* I or II. A study of the origin and development of human culture. Special emphasis is placed upon schools of culture and contemporary culture. Prerequisites: Nine hours of Sociology.

593. SOCIOLOGY SEMINAR. (3-0) *Credit 3.* I or II. For seniors and graduate students desiring to do independent research or study in fields not covered by current offerings. A staff member supervises the work of each student.

603. PROBLEMS OF CHILD WELFARE. (3-0) *Credit 3.* I or II. A study of child welfare movements and contemporary children's agencies and their services. Includes programs for improving the home and for substitute care, safeguarding health, employment protection, delinquency prevention, and other needs of children and youth.

643. MODERN SOCIAL PROBLEMS. (3-0) *Credit 3.* II. Analysis of processes of personal, family and community disorganization, methods and measures of social reform. Prerequisites: Six hours of Sociology.

673. ADVANCED SOCIAL STATISTICS. (3-0) *Credit 3.* II. Deductive and inductive statistical methods in which sampling, probability, multiple and partial correlation, variance, and special population techniques are emphasized. Prerequisite: Sociology 573.

693. PSYCHIATRIC ASPECTS OF SOCIAL WORK. (3-0) *Credit.* II. The influence of modern psychiatry upon social work practices; development and functioning of the emotional life of the individual and dynamics of behavior. Prerequisite: 12 hours of Sociology or Social Service.

733. CRIMINOLOGY. (3-0) *Credit 3.* I. Nature, extent and causes of crime; various schools of criminology, individualization of criminal treatment, and modern techniques of criminal investigation. Prerequisites: Sociology 213 and 223.

SCHOOL OF ENGINEERING

The School of Engineering offers major graduate work leading to the Master of Science degrees in the field of Architectural Engineering, Civil Engineering, Electrical Engineering, and Mechanical Engineering, and minor graduate work for students majoring in other departments.

Prerequisite to graduate work in these fields, is the completion of a four-year curriculum from a College or University of recognized standing, substantially equivalent to that required of undergraduates in the School of Engineering. Students desiring to do graduate work who do not have the necessary prerequisites will be required to make up all deficiencies as directed by the Dean of the School of Engineering before they will be permitted to begin graduate courses.

For advanced work in the School, good library facilities and laboratory equipment are provided to carry on the work suggested. Certain research problems may be made available in cooperation with other departments of the College.

ARCHITECTURE

513-523. ADVANCED ARCHITECTURE. (0-9) *Credit 3.* I and II. Advanced problems in Architectural design; creative and functional use of materials.

533-543. CITY PLANNING. (0-9) *Credit 3.* I and II. Relation of urban elements to the city; residential, business, industrial, recreational, and municipal areas; transportation, traffic and street systems.

CIVIL ENGINEERING

503. EARTH MASONRY STRUCTURES. (2-3) *Credit 3.* I, II. Design and construction of dams, retaining walls, abutments and piers, culverts, grain elevators and bins.

513. PUBLIC HEALTH ENGINEERING. (3-0) *Credit 3.* Design of water purification works and principles of sanitation.

533. REINFORCED CONCRETE DESIGN. (2-3) *Credit 3.* I. Theories of action of beams, slabs, arches, footings, retaining walls, and columns of reinforced concrete; codes and specifications and their influence on design; rigid frames and effect of continuity.

543. ADVANCED STRENGTH OF MATERIALS. (3-0) *Credit 3.* I, II. Special problems met in engineering, limitations of the flexure and torsion formulas, unsymmetrical bending, curved beams, combined stresses, thin tubes, thick hollow cylinders, flat plates and localized stresses.

563. **STATICALLY INDETERMINATE STRUCTURES.** (1-6) *Credit 3.* II. Outer forces, reactions, moments and shears for fixed and moving loads, the use of influence lines, the determination of deflections structures by methods of moment areas, elastic loads, virtual work and Williot diagrams, methods of solution for stresses in statically indeterminate structures by virtual work, slope deflection, and moment distribution; continuous beams, building frames and arches. Prerequisite: Civil Engineering 353.

743. **STRUCTURAL THEORY AND DESIGN.** (2-3) *Credit 3.* II. Statically indeterminate trusses, continuous trusses; steel arches; secondary trusses; suspension bridges; long span roofs; skeleton steel buildings and space structures.

763. **WATER POWER ENGINEERING.** (2-3) *Credit 3.* II. Estimates of water power from steam flow data; theory and practice of hydraulic turbines; elements of design of dam, waterway and power house; cost and value of water power.

773. **RESEARCH IN CIVIL ENGINEERING.** *Maximum credit 9 hours.* Original investigation or advanced study in some field related to the practice of Civil Engineering.

ELECTRICAL ENGINEERING

513. **ADVANCED COMMUNICATION CIRCUIT ANALYSIS.** (3-0) *Credit 3.* Theorems and properties of communication net works in steady-state and transient conditions.

533. **ULTRA-HIGH FREQUENCIES.** (3-0) *Credit 3.* I, II. Radio transmission and reception, including ultra-high frequency techniques.

543. **ELECTRIC POWER GENERATION.** (3-0) *Credit 3.* I, II. Economics and technique of electric power generation. Effect of load curve on costs, thermal efficiency and commercial economy of various heat cycles; general layout of the generating station; division of load among generating units; by-products generations.

743. **ADVANCED ALTERNATING-CURRENT MACHINERY.** (3-0) *Credit 3.* I, II. Analysis of more intricate electrical problems met in the operation of alternating-current machinery.

763. **ELECTRICAL ENGINEERING RESEARCH.** (3-0) *Credit 3.* I, II. Original investigation of special problems in the field of electrical engineering; problem selected by the student with the approval of the Department.

GENERAL ENGINEERING

513. **ADVANCED SHOP PRACTICE** (0-9) *Credit 3.* I. Heat treatment, machine tool work, welding, jig, fixtures, pattern making, and any shop work that may be of special interest to student. All assignments must be approved by the Dean of the School of Engineering.

523. **SURVEY OF INDUSTRIAL PRODUCTS.** (1-6) *Credit 3.* I and II. Survey of the design methods used in industry, methods of presentation, production methods, and client designer relations. Prerequisites: General Engineering 122 and Architecture 212.

723. **GRAPHICS OF FORMULAS.** (3-0) *Credit 3.* Simple empirical equations; curve tracing and fitting; diagramming of formulas; the construc-

tion of nomographic or alignment charts, interpolation, numerical and graphical integration and differentiation, and special slide rules.

562. ADVANCED DESCRIPTIVE GEOMETRY. (1-5) *Credit 2.* I, II. Graphical representation and the application of plane and space curves; advanced problems in single curved and doubled surfaces including the convolute and their developments; fundamentals of perspective and other pictorial means of representation.

MECHANICAL ENGINEERING

503. REFRIGERATION. (3-0) *Credit 3.* I or II. The application of thermodynamics to problems of refrigeration; types of refrigerating machines and plants, refrigerants, icemaking, cold storage, cooling of air liquids and solids, construction details of commercial and household refrigerating plants and their economic operation.

523. FLOW OF FLUID AND HEAT TRANSFER. (3-0) *Credit 3.* I or II. Review of first and second laws of thermodynamics, compressors, refrigeration cycles. The design of apparatus for heat transfer by conduction, convection, and radiation, with particular reference to heat exchangers, air preheaters, economizers, evaporators, boilers and condensers.

703. ADVANCED POWER PLANTS. (3-0) *Credit 3.* I or II. Modern power plants; the design and installation of high pressure boilers, economizers, air preheater, modern fuel burning furnaces, and automatic combustion controls; various steam cycles and types of auxiliary drive; their effect on station heat balance; discussion of deaerators, evaporators, condensers, heaters, etc., including turbin and machinery foundations and layouts.

713. ADVANCED ENGINEERING THERMODYNAMICS. (3-0) *Credit 3.* I, II. Review of basic concepts and laws. Equations of state and thermodynamic properties of gases, vapors, and mixtures. Thermodynamic functions and their differential relations. Analysis of thermodynamic cycles with critical examination of concepts of efficiency, availability, and other loss measurements. Thermodynamic equilibrium, supersaturation and super cooling, and combustion.

723. ADVANCED MACHINE DESIGN. (3-0) *Credit 3.* I or II. The advanced phases of machine design including advanced statics, vibration, dynamics and stress analysis applied to machines. Material selection, force and shrink fits, brakes, clutches, lubrication theory and practice, gear and flywheel design. Design practice and machine layout.

733. DYNAMICS OF MACHINERY. (3-0) *Credit 3.* II. Advanced dynamics of machinery; inertia effects, torque characteristics, flywheel design and the balancing of multiple cylinder engines and compressors; critical speed and the design of turbin drums.

793. RESEARCH IN MECHANICAL ENGINEERING. *Maximum credit 9 hours.* Original investigation or advanced study in the field of Mechanical Engineering.

SCHOOL OF HOME ECONOMICS

GENERAL HOME ECONOMICS

Prerequisites: Students desiring to major in Home Economics must present undergraduate subject matter credits in certain of the following: Social Sciences, Natural Sciences, Art, and Education, which shall be satisfactory to the adviser under whose direction the major work is done. In addition the student must have adequate undergraduate training in that field of Home Economics.

A "split major" may be taken in Home Economics Education and General Home Economics; a minor may be selected in General Education, Elementary Education, Administration and Supervision, or Early Childhood Education. Students may also major in Home Economics Education and minor in General Home Economics, or in General Education, or in Administration and Supervision, or in Elementary Education.

GENERAL HOME ECONOMICS COURSES

701. SEMINAR IN FOODS. (3-0) *Credit 3.* I and II. Review and interpretations on the field of foods and experimental food preparation, involving individual assignments and oral and written reports.

703. SEMINAR IN NUTRITION. (3-0) *Credit 3.* I and II. Review and interpretation of the literature of this field, emphasizing recent advances and involving individual assignments and reports.

753. CLOTHING ECONOMICS. (3-0) *Credit 3.* I. Aspects of clothing which affect the consumer.

763. PROBLEMS IN HOME ECONOMICS. (3-0) *Credit 3.* II. Investigation of selected problems in a particular area. Independent study, and written and oral reports.

773. ADVANCED CLOTHING. (3-0) *Credit 3.* Advanced problems in garment construction; selection, design and construction of suitable clothing for both children and adults.

HOME ECONOMICS EDUCATION

523. RESEARCH PROBLEMS. (2-0) *Credit 3.* I or II. Methods used in collection, treatment and interpretation of data in the field of home economics. (Formerly called "Organization and Presentation").

713. SUPERVISION. (3-0) *Credit 3.* I or II. Planned for supervisory teachers or others in same capacity.

723. EDUCATIONAL MEASUREMENT. (3-0) *Credit 3.* II. Home Economics subject matter tests, scales, construction and evaluation of objective devices.

733. ADVANCED METHODS. (3-0) *Credit 3*. I or II. Refresher course for teachers in Home Economics.

743. STATISTICAL TECHNIQUES. (3-0) *Credit 3*. I or II. Methods of interpretation and utilization of test data.

793. HOME ECONOMICS CURRICULA. (3-0) *Credit 3*. I. The objectives of Home Economics in high schools; recent surveys and other methods used in determining content of curricula.

3x3. RESEARCH. (3-0) *Credit 0*. I or II. Thesis involving extensive study of chosen problems.

813. CHILD DEVELOPMENT. (3-0) *Credit 3*. I or II. Curriculum in early childhood education.

DIVISION OF INDUSTRIAL EDUCATION

In the Division of Industrial Education, advance work is offered leading to the Degree of Master of Science and Master of Education in the field of Industrial Education.

Prerequisite to graduate work in these fields, is the completion of a four-year curriculum from a College or University of recognized standing, substantially equivalent to that required of undergraduates in the Division of Industrial Education. Students desiring to do graduate work who do not have the necessary prerequisites will be required to make up all deficiencies as directed by the Director of Industrial Education before they will be permitted to begin graduate courses.

To qualify for the Master's Degree with a major in Industrial Education, at least fifteen (15) semester hours of the total required must be in courses offered to graduate students only. Also, all students will be required to take a course in Industrial Education 763—Research and Thesis Writing. Two-thirds of the work should be in the major field of Industrial Education, and one-third should be in a minor field chosen with the advice and approval of the Director of Industrial Education.

For advance work in the School, good library facilities and laboratory equipment are provided to carry on the work suggested. Certain research problems may be made available in cooperation with other departments of the College.

INDUSTRIAL EDUCATION

512. CURRICULUM CONSTRUCTION AND COURSE MAKING IN INDUSTRIAL EDUCATION. (2-0) *Credit 2*. I. Principles of curriculum construction and course making; study of curriculum concepts as have prevailed in modern education; comparative study of Industrial Education curricula as used

throughout leading high schools; analytical technique in curriculum construction; course making and syllabus construction.

523. TESTS AND MEASUREMENTS IN INDUSTRIAL EDUCATION. (3-0) *Credit 3*. II. Sources of instructional testing and evaluating materials; construction and use of test and evaluating devices; administering, scoring, recording and interpreting tests, progress charts, diagnosis of difficulties, analysis of teaching problems as related to evaluation.

533. INSTRUCTIONAL METHODS IN INDUSTRIAL EDUCATION. (3-0) *Credit 3*. I. Study of methods devices, techniques as applied to teaching industrial subjects; analysis and evaluation of student learning difficulties and teaching responsibilities in industrial classes; also study of the nature, preparation and use of instruction sheets.

542-3. TRADE AND JOB ANALYSIS. (2-0) (3-0) *Credit 2 or 3*. II. Analysis technique as it has been developed by various leaders in Industrial Education; job analysis for the purpose of determining the content of training for an occupation; related content analysis for determining what should be taught as classroom material; analysis of a trade, industry or industrial plant for determining the general outline of a program of trade or industrial training.

563. THE GENERAL SHOP. (3-0) *Credit 3*. II. The general shop organization, its contribution to attainment of cardinal objectives on the modern high school, current practices as to type of shops, equipment, instructional materials and procedures.

583. INDUSTRIAL ARTS FOR THE ELEMENTARY SCHOOL. (2-0) *Credit 2*. I and II. A course designed for teachers, supervisors, principals of elementary schools. Fundamental concepts, philosophies of Industrial Arts in the elementary school; function and scope, organization, administration, activities and methods of teaching Industrial Arts on the elementary level.

593. AUDIO AND VISUAL EDUCATION. (3-0) *Credit 3*. II. Study of the various audio and visual aids with emphasis on selection, evaluation and technique of educational use; construction and development of various aids and devices; sources of available materials in the field; practical experience in use of aids as movie projectors, slides, film strips, opaque projects, etc.

603. WORKSHOPS AND INSTITUTES IN INDUSTRIAL EDUCATION. *Credit 3*. I and II. A study of the development of solutions for problems in Industrial Education.

- A. Cosmetology Institute
- B. Industrial Arts Teacher Workshop
- C. Vocational-Industrial Teachers Workshop
- D. Administrators Workshop

712-3 ADMINISTRATION AND SUPERVISION OF INDUSTRIAL ARTS EDUCATION. (2-3) (3-0) *Credit 2 or 3*. I. How to organize, supervise and administer functioning programs of Industrial Arts; the duties of a supervisor and director of Industrial Arts; special problems of supervision and Administration of Industrial Arts; relationships to local, state and federal educational authorities, correlating Industrial Arts with other phases of education.

722-3. ADMINISTRATION AND SUPERVISION OF VOCATIONAL-INDUSTRIAL EDUCATION. (2-0) (3-0) *Credit 2 or 3*. II. The administration and supervision of Vocational-Industrial Education in all day, part-time and evening programs, apprenticeship, school-industry programs, vocational rehabilitation; relation of federal to state, state to local each to the other; study of the legal administrative and supervisory aspects of Vocational-Industrial Education as it operates under the Smith-Hughes and George-Borden Act; also, the State Plan for Vocational Education.

732-3. PHILOSOPHY OF INDUSTRIAL EDUCATION. (2-0) (3-0) *Credit 2 or 3*. I. Fundamental concepts of progressive Industrial Education; principles, beliefs, and assumptions in regard to Industrial Education; its objectives and relationship to other phases of education; its justification in the total scheme of modern education.

743. THE HISTORY OF INDUSTRIAL EDUCATION. (3-0) *Credit 3*. II. A survey of the early movements, experiments and writings concerning leaders of the United States and European countries. Intensive study of developments in Industrial Education since 1850. A comparative study of leaders, movements, institutions and literature in the field of Industrial Education.

753. PRACTICUM IN INDUSTRIAL EDUCATION. *Maximum credit 6 hours*. Development of current problems as reflected through the merging of practical experience with theoretical and scientific concepts.

763. RESEARCH AND THESIS WRITING. (3-0) *Credit 3*. I and II. Required of all majors in Industrial Education. Methods and techniques of research writing and reporting. Designed especially for students who are to write thesis or lesser reports.

783. PROBLEMS IN INDUSTRIAL EDUCATION. (3-0) *Credit 3*. I and II. Conferences and advisement in selection and preparation of an acceptable term paper or essay. Prerequisite: I. E. 763.

792-4. THESIS IN INDUSTRIAL EDUCATION. (2-0) (4-0) *Credit 2 or 4*. Conferences and advisement in relationship to the selection and preparation of an acceptable thesis for the Master of Science Degree. Prerequisite I. E. 763.

MASTERS DEGREE CONFERRED—1938-1952

1938-1939

- HARRISON, ARMY J. Major—Administration and Supervision Minor—Rural Sociology
 Thesis: A Case History of Pickard High School, Brenham, Texas, 1949
- RHONE, FREDIA E. Major—Rural Sociology Minor—Rural Education
 Thesis: The Recreational Activities of Rural Youth in Waller County, Texas, 1939-40
- DAVIS, WILLIAM L. Major—Administration and Supervision Minor—General Education
 Thesis: A Coordinating Community Program
- GOODEN, JOHN EDDIE Major—Administration and Supervision Minor—Sociology
 Thesis: A Comparative Study of the Family Background
- MAYFIELD, CHARLOTTE Major—Administration and Supervision Minor—Sociology
 Thesis: Improving the Curriculum
- PUNCH, OSSALEE V. Major—Administration and Supervision Minor—Rural Sociology
 Thesis: A Tentative Guidance Program
- WILLIAMS, WILLIE LEE Major—Administration and Supervision Minor—Rural Sociology
 Thesis: History of Booker T. Washington High School

1940-1941

- ARCHIA, ERNEST A. Major—School Administration Minor—Political Science
 Thesis: A Ten Year Follow-Up Study of the Sixty Graduates and Ninety-Two Drop-Outs of the George Washington Carver High School, Goose Creek, Texas
- BURTON, T. H. Major—Administration and Supervision Minor—Rural Education
 Thesis: A Recommended Program of Principal-Teacher Supervision For Center Point School, Pittsburg, Texas
- CALDWELL, HERMAN Major—Administration and Supervision Minor—Rural Education
 Thesis: Some Causes of Irregular Attendance in the Negro Public School of Texarkana, Arkansas
- COLLINS, STELLA Major—Administration and Supervision Minor—History
 Thesis: A Comparative Study of the Compulsory Attendance Laws of the Southern States With Special Emphasis Upon the Attendance Laws of Texas
- FULLER, RUBY W. Major—Home Economics Minor—Administration and Supervision
 Thesis: The Effect of Home Produced Foods Upon the Eating Habits of Pre-School Children in Henderson County, Texas
- HALL, OLIVIA W. Major—General Home Economics Minor—General Education
 Thesis: Homemaking Unit For Adults Based On A Study of the Residents of the D. N. Leathers Slum-Clearance Project at Corpus Christi, Texas
- HAYES, JENNIE V. Major—History Minor—Political Science
 Thesis: History of the United Transport Service Employees of America
- HINES, LILLIE BELLE Major—Rural Education Minor—General Education
 Thesis: A Comparative Study of Some Current Practices in Elementary Education As Found in Negro Schools in Travis County
- JOHNSON, A. SODERS Major—English Minor—General Education
 Thesis: A Proposed Program of Language Arts for Ninth Grade of Booker T. Washington High School, Marlin, Texas
- LIVINGSTON, LORA Major—General Education Minor—Rural Education
 Thesis: A Study of the Needs of Possibilities for the Teaching of Art in the Negro Elementary Schools of Houston, Texas
- LUTER, BUCKNER S. Major—Agricultural Education Minor—Administration and Supervision
 Thesis: Organizing New Farmers of America For Proficiency in Agricultural Vocations
- MCDONALD, A. W. Major—Administration and Supervision Minor—Political Science
 Thesis: A Status Study of the Graduates of Central High School for the Five-Year Period, 1932-1936, With Implication for Curriculum Reorganization
- POOLE, SADIE JONES N. Major—Rural Education Minor—Rural Sociology
 Thesis: A Study of Methods and Materials As Can Be Applied to the Improvement of Junior High Schools
- REYNOLDS, LOIS Major—Sociology Minor—Economics
 Thesis: Sustenance Position of Texas Negro Domestic Servants in the Texas Economy
- RICHARDS, BESSYE Major—Home Economics Education Minor—Sociology
 Thesis: A Study of the Effects of Part-Time Employment Upon the Scholastic Achievement of Home Economics Students at Prairie View State College, 1926-1940
- SASSER, ANNIE G. H. Major—Mathematics Minor—Rural Education
 Thesis: Functions and Functional Relationships in Secondary Mathematics

- TAYLOR, SAMUEL B. Major—Political Science Minor—Economics
 Thesis: The Administrative Organization of the State of Texas
- THOMAS, BESSIE Major—Rural Education Minor—Rural Sociology
 Thesis: A Study of the Advantages and Disadvantages of the Consolidated Negro Schools in Waller County, Texas
- TURNER, FALBIA A. Major—Sociology Minor—History
 Thesis: Some Factors Giving Rise to Differential Grouping Among the Pupils of Trinity Garden Elementary School of Houston, Texas

1941-1942

- ANDREWS, ROBERT Major—Administration and Supervision Minor—Rural Sociology
 Thesis: Availability of Education to Negroes in Waller County, Texas
- ARMSTRONG, IRA E. Major—Administration and Supervision Minor—General Education
 Thesis: Historical Study of Public Elementary School in San Antonio, Texas
- BRADY, ARTHUR E. Major—Administration and Supervision Minor—General Education
 Thesis: An Appraisal of the Reorganization of the San Antonio Schools
- CLATER, MARIE Major—Administration and Supervision Minor—English
 Thesis: An Analysis and Appraisal of the Aims of Negro Teacher-Colleges in Texas
- COLLINS, WILLIAM Major—Agricultural Education Minor—Rural Sociology
 Thesis: Health Conditions of One Hundred Negro Households in Schulenburg, Texas
- HERALD, A. CLYDE Major—Chemistry Minor—Education
 Thesis: The Formation and Study of Certain Alkamine Esters of Substituted Cinnamic Acids
- JONES, LAURA NICHOLS Major—Administration and Supervision Minor—Rural Education
 Thesis: A Survey of the Visual Aids Used In Waller County Schools
- FERRY, VIRGINIA B. Major—Rural Education Minor—Rural Sociology
 Thesis: Recreational Activities of Blackshear Elementary School
- WELLS, THELMA N. S. Major—Administration and Supervision Minor—Rural Education
 Thesis: Some Reading Deficiencies of Negro Children of Waller County
- WILLIAMS, SAMUEL B. Major—Chemistry Minor—Physics
 Thesis: Formation and Study of Certain Benzoines and Some of Their Derivatives

1942-1943

- ALEXANDER, ZELEMOR Major—Administration and Supervision Minor—General Education
 Thesis: A Study of the Records Used in Twenty-Five Representative Negro High Schools of Texas
- ANDERSON, CORA BELLE PASLEY Major—Administration and Supervision Minor—Elementary Education
 Thesis: The Current Attitude of Teachers Regarding Disciplinary Problems in the Negro Elementary Schools of Houston, Texas
- BARNETT, JEWELL LOVETTA Major—Rural Education Minor—General Education
 Thesis: Education Availability for Negro Girls and Boys in Lincoln County, Oklahoma
- BROWN, ANNIE LOIS Major—Home Economics Education Minor—General Education
 Thesis: A Study of the Interests and Aversions of Homemaking Pupils in seventy-four Vocational Schools of Texas
- CAMERON, BELLA HOLLEY Major—Administration and Supervision Minor—General Education
 Thesis: An Analysis of Progressive Elementary Education With Proposals for the Improvement of Instruction in Cuney Elementary School, San Antonio, Texas
- HARRIS, CORNELIUS ALFRED, JR. Major—Administration and Supervision Minor—General Education
 Thesis: An Analysis of Some Factors Affecting Attendance At Booker T. Washington School in Galveston, Texas
- JOHNSON, VALERIE BERTINA Major—Biology Minor—General Education
 Thesis: Studies in Abdominal Distention
- JOHNSON, BESSIE HOLLOWELL Major—English Minor—General Education
 Thesis: An Investigation in Progress in Reading Ability of One Hundred Senior Pupils of Phillis Wheatley High School, Houston, Texas
- JOHNSON, W. L. D. SR. Major—General Administration Minor—Social Science
 Thesis: Organization of the Public Schools in Houston, Texas, 1905-1940
- KILPATRICK, MABEL EUNICE Major—English Minor—Education - Administration and Supervision
 Thesis: A Study of Reading Achievement at H-6 Grade Level in the Negro Elementary Schools of Houston, Texas

- MULDREW, GEORGIA HILBURN Major—Physical Education Minor—English
Thesis: Factors Influencing the Health of Negroes in Houston, Texas
- SANDERSON, JAMES CHARLES SUMMER Major—Education Minor—Political Science
Thesis: Eliminations in the Wheatley High School in Houston, Texas, 1937-1941
- VAUGHN, FLORENCE E. FOWLER Major—English Minor—Rural Education
Thesis: A Reading Program for the Ninth Grade of the St. Paul High School, Greenville, Texas
- WASHINGTON, JORDAN THOMAS Major—Administration and Supervision Minor—Rural Education
Thesis: Adequacy of Public Education for Negroes of Jasper County, Texas
- WILSON, LUCELUSTINE WALKER Major—General Education Minor—Education - Administration and Supervision
Thesis: A Study of Progressive Education as Practiced in Negro Secondary Schools of Texas

1943-1944

- ADAMS, ALLENE ARCHIA Major—History Minor—General Education
Thesis: The Development of the Oil Industry in the Baytown Area, Especially As It Affects the Employment and Welfare of Negroes
- BARLOW, MICHEAL K. Major—Administration and Supervision Minor—Rural Education
Thesis: A Study of Retardation in Five Negro High Schools in Fort Ben County, Texas
- BLAND, REDA LEE Major—General Education Minor—Mathematics
Thesis: The Function of Mathematics in General Education
- BLANKS, VITTORIA C. Major—English Minor—Education
Thesis: The Status of Reading Ability Among Prairie View College Freshmen: An Exploratory Story
- BROOKS, WINZOLA DUVAL Major—General Education Minor—Administration and Supervision
Thesis: A Remedial Reading Program Designed to Meet the Difficulties Found in the Fourth Grade of Coles School, Corpus Christi, Texas
- BUTLER, EULALIA VELMA Major—Mathematics Minor—General Education
Thesis: Maxima and Minima of Functions of One and Two Variables
- CLEMONS, ROSA ELLEN Major—Rural Education Minor—General Education
Thesis: Problem of Studying, Collecting, and Arranging Curriculum Material That May Be Used in the Teaching of Elementary Science for Primary Grades
- CONNER, JEFFIE O. A. Major—Home Economics Minor—Rural Sociology
Thesis: A Study of Four Hundred and Sixty Negro Farm Families in Three Texas Counties
- CRAWFORD, BERTHA O. Major—Administration and Supervision Minor—Rural Education
Thesis: A Study of a Remedial Reading Program and Its Effect On the Improvement of Reading in the Fifth and Sixth Grades of the Bruce Elementary School, Houston, Texas
- FENNOY, THELMA RAND Major—Sociology Minor—Economics
Thesis: The Spatial Distribution of Deaths in the City of Houston, Texas
- HATHAWAY, SARAH LEE Major—English Minor—Mathematics
Thesis: Sectioning Freshman English on the Basis of Reading Test Scores
- JACKSON, L. K. Major—Educational Administration Minor—History
Thesis: The Organization and Administration of Thirty-Four Selected Small Negro High Schools in Oklahoma
- KENYON, MATTIE BELZORA Major—Administration and Supervision Minor—Rural Education
Thesis: A Rural Elementary School Report That Will Meet the Needs of the Pupils, Patrons, and Teachers of the Negro School of Oklahoma County
- LANGRUM, HENRY CLAY Major—Agricultural Education Minor—Rural Sociology
Thesis: Evidences of Effectiveness of Instruction in Vocational Education Agriculture in Houston County, Texas
- MALONE, VERA E. Major—General Education Minor—Rural Education
Thesis: A Suggested Plan for the Education of the Physically Handicapped Children in the Waco Elementary School
- MERRICK, PORTIA CONRAD Minor—Administration and Supervision Minor—Sociology
Thesis: A Comparative Study of Factors Probably Relating to Attendance in East Baton Rouge Negro Rural Schools
- PHILLIP, JIMMIE RUTH Major—Homemaking Minor—General Home Economics
Thesis: A Proposed Survey Course for Freshmen Home Economics Students at Prairie View Normal and Industrial College
- RANDALE, IRENE ETHELIND Major—Administration and Supervision Minor—Rural Education
Thesis: A Comparative Study of Common Schools for Negroes in Brazos County

- ROBERTSON, ATHAL XIMINIA Major—Biology Minor—Education
 Thesis: The Effects of Colchicine on Germination and Polyploid Development of Watermelons
- SANDERS, RETA MAE Major—Rural Education Minor—Administration and Supervision
 Thesis: The Development of the Workshop Idea in the Program of Higher Education for Negroes in Texas
- SEALS, LIZZIE EMMA Major—General Education Minor—English
 Thesis: A Study of How the Coordinated Program Functions in Community Life Development in Smith County, Texas
- SNEED, BEATRICE B. Major—Rural Education Minor—General Education
 Thesis: A Study of Cuneo Community for the Purpose of Developing a Functional Primary Curriculum
- TAPSCOTT, GERTRUDE Major—Rural Education Minor—Home Economics
 Thesis: A Plan for Helping Teachers of Cherokee County Discover and Make Use of Community Resources as Elementary Curriculum Materials
- WITHERSPOON, LOTTIE B. Major—Foods Minor—Rural Sociology
 Thesis: A Study of the Food Consumption of Eighty-Six Families Dining Hall

1944-1945

- ALLEN, ALBERTA S. Major—Home Economics Minor—Rural Education
 Thesis: A Study of the Food Consumption of Eighty-Six Families in Carlsbad, New Mexico
- AUSTIN, R. S. Major—Administration and Supervision Minor—Agricultural Economics
 Thesis: A Comparative Study of the Training, Experiences, Duties and Responsibility of East Texas Negro School Principals
- DACUS, DALTON F. Major—Agricultural Education Minor—Agricultural Economics
 Thesis: Some Factors Affecting Vocational Education in Agriculture
- DEAN, JULIA K. Major—English Minor—General Education
 Thesis: A Study of the Analysis of the Errors Made by Prairie View Freshmen for the Year, 1944-1945
- ELLIS, DELIA HALL Major—Home Economics Education Minor—Education
 Thesis: A Comparative Study of Marks Earned by Native and Transfer Home Economics Students
- HARRISON, C. A. Major—Rural Education Minor—Rural Sociology
 Thesis: Determining Courses of Study in Farm Mechanics For Texas Based on the Analysis of the Need of 300 Negro Farmers
- HARRISON, RAY ALFRED Major—Agricultural Education Minor—Agricultural Economics
 Thesis: Teaching NFA in a Regular Program of Vocational Agriculture
- JACKSON, CHARLES E. Major—Administration and Supervision Minor—General Education
 Thesis: A Study of Educational Provisions for Negroes in Gregg County
- JACKSON, GWENDOLYN Major—Piano Minor—Music Theory
 Thesis: Orchestral Transcription of Beethoven's Piano Sonata, Opus 57, First Movement
- JOHNSTON, WILLIAM CLIFFORD Major—Administration and Supervision Minor—Political Science
 Thesis: The Relationship Between Vocabulary of Scholastic Achievement of a Group of Prairie View University Students
- KEMP, I. B. Major—Industrial Education Minor—Administration and Supervision
 Thesis: The Status of the Negro Industrial Worker in Houston, Texas
- LANGRUM, MABLE P. Major—Administration and Supervision Minor—Rural Education
 Thesis: A Study of Some Supervisory Practices in Some Selected Schools in East Texas With Recommendations for Improvement
- NICHOLAS, JOSEPHINE C. Major—Home Economics Minor—Education
 Thesis: A Comparative Study of Grades of Home Economics Graduates of Prairie View College, 1939-1944
- PERRY, DOUGLASS D. Major—History Minor—Education
 Thesis: Black Populism: The Negro in the Peoples Party in Texas
- PURYEAR, BRYTE HOOVER Major—Administration and Supervision Minor—Sociology
 Thesis: An Analysis of Punctuation Errors of Three Hundred Freshmen at Prairie View State College
- RANDALL, BEATRICE HOGAN Major—English Minor—Education
 Thesis: An Analysis of Punctuation Errors of Three Hundred Freshmen Students of Prairie View College, 1944-1945
- REESE, GOLDIE B. Major—Elementary Education Minor—Administration and Supervision
 Thesis: Noon-Hour Recreation In the Elementary Schools of Houston, Texas

- STUBBLEFIELD, BEAUREGARD Major—Mathematics Minor—Chemistry
 Thesis: Computation of All the Real and Complex Roots of Algebraic and Transcendental Equations
- THOMAS, BENJAMIN F. Major—Administration and Supervision Minor—Agricultural Education
 Thesis: A Survey of the Health Conditions of the Negro School Children in Ellis County
- THOMAS, O. J. Major—Agricultural Education Minor—Rural Sociology
 Thesis: Suggested Principles and Practices for Cooperative Teaching With Special Reference to the Part to Be Taken By Vocational Agriculture.
- WALL, PAULINE A. Major—Political Science Minor—Sociology
 Thesis: The Potentiality of the Negro Vote in Texas

1945-1946

- ANDERSON, ARCHIE B. Major—Administration and Supervision Minor—Sociology
 Thesis: A Study of Classroom Instruction in Five Harris County Schools
- AVERYHARDT, SARAH A. Major—Education Minor—History
 Thesis: Developing a Postwar Community School Program Through the High School Social Studies of the Furney Richardson School
- BATTS, WILLIAM M. Major—Administration and Supervision Minor—Rural Education
 Thesis: What the General Baptists of Texas (Negro) Want Educationally, With Suggestions for Improvement
- BOONE, LOLITA A. Major—English Minor—Education
 Thesis: A Critical Study of the English Teachers in a Texas County, Particularly as Their Attitudes, Abilities and Interest Affect the Background of Their Students, 1945-1946
- DAVID, VEOLA E. Major—Administration and Supervision Minor—Education
 Thesis: A Proposed Vocational Guidance Program for the Junior High Schools of Madison County, Texas
- DOWNS, WALLACE E. Major—Agricultural Economics Minor—Agricultural Education
 Thesis: Influences of Soil Conservation on the Farming Program of 100 Farmers in Grambling Area, Lincoln Parish, Louisiana, 1940-45
- GASTON, JOHNNIE L. Major—Sociology Minor—Education
 Thesis: Relation of Socio-Economic Status and General Intelligence
- GEE, RUTH ELLA Major—Administration and Supervision Minor—Home Economics
 Thesis: The History and Development of Prairie View Training School From 1916-1946
- HARDEMAN, VEORIA M. Major—English Minor—Education
 Thesis: An Analysis and Evaluation of the Freshman Reading Program of Prairie View University for the Year 1945-1946
- HINES, VIVIENNE P. Major—General Education Minor—Rural Education
 Thesis: An Analysis of the Status of the Negro Teachers of West Texas
- HOGAN, WILMA R. Major—English Minor—Education
 Thesis: The Negro in Contemporary American Fiction
- HUMPHREY, THOMAS W. Major—Administration and Supervision Minor—Agricultural Education
 Thesis: A Survey of the Vocational Guidance Practices in 103 Negro Schools of Texas
- JOHNSON, BLANCHE E. Major—Education Minor—Political Science
 Thesis: An Analysis of In-Service Teacher Traits Preferred by Students, Parents and Student Teachers of the Prairie View University Training School, 1945-1946
- JOHNSON, JESSE W. Major—Biology Minor—Chemistry
 Thesis: An Algeological Study of the Vicinity of Prairie View, Texas
- JOHNSON, WALTER L. D. Major—Administration and Supervision Minor—Elementary Education
 Thesis: An Investigation in Pupil Achievement in Relation to Intelligence and Personality Patterns of Two Hundred Twenty-Eight Pupils of Jack Yates Senior High School, Houston, Texas
- KENYON, HARRY C. Major—Administration and Supervision Minor—Political Science
 Thesis: The Relation Between Intelligence Rating and Teachers' Marks: A Study of Freshmen at Prairie View University, Prairie View, Texas
- LEE, WISTER M. Major—Administration and Supervision Minor—Physical Education
 Thesis: An Evaluation of the Physical Education Program at Prairie View University Prairie View, Texas
- MCDONALD, ELOISE S. Major—Administration and Supervision Minor—Physical Education
 Thesis: A Suggested Recreation Program for the Lufkin Community
- MILLARD, ETHEL K. Major—Administration and Supervision Minor—Elementary Education
 Thesis: An Inquiry into the Relationship Between Home Condition and Scholastic Achievement in Arithmetic

- NELSON, ISAAC T. Major—Agricultural Education Minor—Education
 Thesis: A Comparative Study of Records Made by Students in the Division of Agriculture from Vocational and Non-Vocational High Schools
- RICHARDS, EUDORA H. Major—Administration and Supervision Minor—Rural Education
 Thesis: A Program for the Fourth and Fifth Grades of the Colored Elementary Schools Goose Creek, Texas
- TARROW, WILLIE A. Major—History Minor—Administration and Supervision
 Thesis: A University for Negroes of Texas: A Promise Unfulfilled
- THOMPSON, WARDELL D. Major—Agricultural Education Minor—Administration and Supervision
 Thesis: N.F.A. Instruction in Vocational Agriculture in Area IV, Texas
- WESLEY, FRANKLYN D. Major—Industrial Education Minor—Mechanic Arts
 Thesis: Standardization of Industrial Arts Courses in Texas
- WILLIAMS, IKE W. Major—Agricultural Education Minor—Administration and Supervision
 Thesis: A Study of Animal Husbandry Practices of One Hundred Negro Farmers in Anderson County, Texas

1946-1947

- ABERNETHY, RUBY O. B. Major—Home Economics Minor—Education
 Thesis: Home Activities of Eighth Grade Girls Taking Vocational Homemaking in Texas
- ACKERMAN, BENNIE G. Major—Physical Education Minor—Administration and Supervision
 Thesis: Physical Education and its Function in the Secondary School With a Suggestive Program of I. M. Terrell High, Fort Worth, Texas
- ANDERSON, MOZELLE Major—Elementary Education Minor—English
 Thesis: A Survey of the Health Records and Their Implication in the Negro Elementary Schools of Houston, Texas
- ARMSTRONG, WILLIAM L. Major—Education Minor—English
 Thesis: A Survey of Errors in Senior Grammar at Lincoln High School, Dallas Texas
- AUSTIN, EFFIE B. Major—Administration and Supervision Minor—English
 Thesis: A Study of the Attitudes of Parent-Teachers Toward Modern Education in the Negro Elementary School of Tyler, Texas
- BLANCHETTE, JACOB S. Major—Administration and Supervision Minor—Elementary Education
 Thesis: Status of Negro Teachers of Creek County, Oklahoma
- BOYER, JACOB L. Major—Administration and Supervision Minor—Agricultural Education
 Thesis: A Survey of Certain Personnel Aspects of the Cooperative Extension for Negroes in Texas
- BREEDING, FIDELUS DELL Major—Administration and Supervision Minor—Industrial Education
 Thesis: A Study of the Status of Prairie View Veterans
- BREMBRY, BOOKER T. W. Major—Agricultural Education Minor—Administration and Supervision
 Thesis: A Comparative Study of Vocational Agriculture in the Center Point School (Pittsburg, Texas) from 1919 to 1945
- BURNS, ANDREW JACKSON Major—Agricultural Education Minor—Administration and Supervision
 Thesis: A Study of the Educational Status and Responsibilities of Negro Teachers of Vocational Agriculture in Texas
- BUSBY, JEROME Major—Administration and Supervision Minor—Elementary Education
 Thesis: Some Factors Involved in Failure at Jack Yates High School, Houston, Texas
- CARROLL, WILLIE H. Major—English Minor—Administration and Supervision
 Thesis: A Study of Functional Grammar
- COSS, ROBERT W. Major—Agricultural Economics Minor—Agricultural Education
 Thesis: The History, Types of Projects, Plans and Policies of the Farm Security Administration
- EVANS, EDWARD B. JR. Major—Physical Education Minor—Administration and Supervision
 Thesis: A Suggestive Plan for the Reorganization of Interscholastic Athletics
- HAMILTON, GENERAL E. Major—Biology Minor—Administration and Supervision
 Thesis: A Study of the Structure of Hair With Special Reference to a Negro Child During First Years of Growth
- HARRINGTON, JAUNITA S. Major—Political Science Minor—History
 Thesis: War Propaganda in the United States Through Foreign Bureaus of Information
- HENRY, IRA CORINE Major—Education Minor—English
 Thesis: A Study of Speed Defects in the Vilden High School, Gladewater, Texas With Suggestions of Improvement

- JACKSON, MARY CHAMBERS Major—Administration and Supervision Minor—Sociology
 Thesis: An Analysis of the Leisure-Time Interest of Children, Teen Ageds, and Adults of Oak Addition of Pelly, Texas
- KENNARD, MITTIE GRACE Major—Music Education Minor—Piano
 Thesis: The Relationship of Texas College to Standards of Music in Public Schools
- MARKS, CURTIS MIRABEAU Major—Agricultural Economics Minor—Administration and Supervision
 Thesis: A Study of the Type of Farming and of Farm Income of Fifty Negro Farmers in Waller County, Texas
- MASON, LEON U. Major—Agricultural Education Minor—Administration and Supervision
 Thesis: A Suggestive Program of Work in Agriculture of Harrison County
- MINFIELD, FRANKIE C. Major—Administration and Supervision Minor—Elementary Education
 Thesis: A Program for the Improvement of the Social Needs of the Piney Point Community
- MOODY, RICHARD A. Major—Agricultural Economics Minor—Rural Education
 Thesis: A Plan of Work for the Neches-Sabine Soil Conservation District
- MORGAN, FLETCHER, JR. Major—Agricultural Economics Minor—Agricultural Education
 Thesis: A Study of the Economic Status of Fifty Negro Farmers of Matagorda County, Texas
- MYERS, EWITT S. Major—Administration and Supervision Minor—Agricultural Education
 Thesis: A Survey of Negro Teachers in the Elementary School in Brazoria, Texas
- NAVES, BESSIE FARRIS Major—Administration and Supervision Minor—English
 Thesis: A Comparative Analysis of the Curricula of Ten of the Leading Colored High Schools in Texas
- NORMAN, GLAUCUS P. Major—Administration and Supervision Minor—Elementary Education
 Thesis: A Proposed Plan for Vocational Guidance for the Anderson High School, Austin, Texas
- RICHARDSON, WILLIE Y. Major—Elementary Education Minor—Administration and Supervision
 Thesis: A Comparative Study of Reading Abilities of Anglo-American, Negro American, and Latin-American of San Antonio Public Schools, San Antonio, Texas
- SABBERRY, EDGAR L. V. Major—Physical Education Minor—Administration and Supervision
 Thesis: A History of Major Sports in the Southwestern Negro Athletic Conference from 1920-1947
- SMITH, ALLEN FRANKLIN Major—Physical Education Minor—Administration and Supervision
 Thesis: A Health and Physical Education Program for the Mineola School
- STUBBLEFIELD, CEDRIC T. Major—Chemistry Minor—Mathematics
 Thesis: A Chemical Investigation of the Senna Bean (*Sesbania macrocapa*)
- SUTTON, GEORGE D. Major—Administration and Supervision Minor—Agricultural Education
 Thesis: A Study of the Causes of Irregular Attendance in the Negro Public School of Fort Worth, Texas
- WARNER, DILLARD Major—Music Education Minor—Piano
 Thesis: The Status and Problems of Music Appreciation in the Negro High Schools of Texas with Remedial Measures
- WARREN, GLORIA GERALD Major—Home Economics Education Minor—Administration and Supervision
 Thesis: College Home Economics as a Functional Factor in Home Management Based on Opinion of Some Married Graduates
- WHITE, CARRIE B. Major—History Minor—Education
 Thesis: The Development of Higher Education for the Negro in the South From 1890 to 1914 with Special Reference to Land-Grant Colleges
- WHITE, GAZZELLA M. Major—Administration and Supervision Minor—Rural Education
 Thesis: A Proposal For Development of A Training School at the Sabine Farms, Harrison County, Texas

1947-1948

- ADAMS, FRED E. Major—Sociology Minor—Education
 Thesis: The Variation of Socio-Economic Characteristics of Counties According to Per Cent Negro Population of Each County
- BLANKS, COLUMBUS M. Major—History Minor—Education
 Thesis: San Antonio, The Inland Gate
- BRADLEY, MABLE FRANCES Major—English Minor—Education
 Thesis: A Study of Eugene O'Neill's Contribution to American Drama

- CAREY, ORA LEE Major—English Minor—Education
Thesis: Improving the English Usage of the Students of Jarvis Christian College
- CARY, REBY Major—History Minor—Education
Thesis: The Development of the Negro Chamber of Commerce Movement in Texas
- CHUMLEY, LEO B. Major—History Minor—Education
Thesis: Negro Labor and Property in Shelby County, Texas
- CLAY, SAMUEL C. Major—Administration and Supervision Minor—Sociology
Thesis: A Brief Survey of Guidance Work and the Program of Guidance in Blackshear School at San Angelo, Texas
- COLLINS, CURTIS M. Major—Administration and Supervision Minor—Elementary Education
Thesis: A Tentative Guidance Program for the Kealing Junior High School, Austin, Texas
- DADE, BILLYE E. Major—Administration and Supervision Minor—Elementary Education
Thesis: A Professional Investigation of the Teachers of the Booker T. Washington and Lincoln High Schools of Dallas, Texas
- DAVIS, CHARLES ETTA OWENS Major—Elementary Education Minor—Administration and Supervision
Thesis: A Study of Primary Techniques and Procedures with a View of Improving Activities as Learning Situations for the First Grade in Douglass Schools, Lawton, Oklahoma
- EWELL, MARJORIE MORRIS Major—Elementary Education Minor—Health Education
Thesis: An Improved Reading Program in the Carver High School, Frankston, Texas
- FRANKLIN, THEOPHILUS CLAY Major—Administration and Supervision Minor—Elementary Education
Thesis: The Development of G. W. Carver High School, Karnack, Texas, as a Consolidated School
- GRAY, VELMA LAND Major—Education Minor—Biology
Thesis: A Study of Health Knowledge, Practices, Misconceptions, and Superstitions of 7th and 8th Grade Students in Hopkins County
- HARDEN, RUBY BROWNE Major—Home Economics Education Minor—Administration and Supervision
Thesis: A Follow Up Study of Two Groups of Home Economics Students Who Withdrew from Prairie View A. & M. College Before Graduation 1933 and 1943
- HARRISON, RICHARD WAGNER Major—Music Education Minor—Music Theory
Thesis: Three Pastoral Scenes
- HAYES, JAMES DEAN Major—History Minor—Administration and Supervision
Thesis: The Congress of Industrial Organizations Movement Into the South with Special Reference to Texas
- HEARN, R. D. Major—History Minor—Administration and Supervision
Thesis: The Development of Higher Education for Negroes with Special Reference to the Denominational Schools
- HENDERSON, MAE ELLA Major—Elementary Education Minor—Administration and Supervision
Thesis: An Experiment Conducted in Spelling Among the Prairie View Freshmen 1947-48
- HOLLINS, ARNTIE EDWARD Major—History Minor—Economics
Thesis: The Colored Teachers State Association of Texas as Revealed in the Texas Press
- JONES, HENRY VINIE Major—Administration and Supervision Minor—History
Thesis: The Causes of Discipline Problems and their Treatment in the Fred Douglass High School of Jacksonville, Texas
- LEWIS, LILLIAN M. Major—Home Economics Education Minor—Administration and Supervision
Thesis: A Study of the Eating Habits and Related Factors of Some Pupils in Grades 4, 5, and 6 in Selected Schools in Texas
- MADISON, WILLIAM MACK Major—Biology Minor—Chemistry
Thesis: A Histological Study of the Malpighian Tubules of the Gryllus Domesticus
- MOON, CLARA EVA Major—Elementary Education Minor—Administration and Supervision
Thesis: A Revised Curriculum of Dunbar Elementary School, Sulphur, Oklahoma, to Meet the Needs of Pupils and Community
- McCLENNAN, WALTER D. Major—Mathematics Minor—Chemistry
Thesis: Distributive Operators: $R(A \text{ plus } B) \text{ equal } RA \text{ plus } RB$
- McDONALD, LUCY MAE Major—English Minor—Administration and Supervision
Thesis: An Error Analysis of the Result of an Achievement Test in English Given at Dunbar High School, Ferris, Texas, 1947-1948
- OWENS, EMIEL W. Major—Agricultural Economics Minor—Agricultural Education
Thesis: A Survey of the Economic Status of Forty Negro Farmers in Leon County, Texas
- OWENS, JENNIE L. Major—English Minor—Administration and Supervision
Thesis: Paul Lawrence Dunbar's Treatment of Plantation Life

- PANNELL, ORVELLA TATUM **Major**—Administration and Supervision **Minor**—History
Thesis: A Study of Negro Schools in Bell County, Texas
- POWELL, JOHN R. **Major**—Administration and Supervision **Minor**—Agricultural Education
Thesis: A Study of the Development of Education for Negroes in Walker County
- PRINCE, CECIL L. DAVIS **Major**—Administration and Supervision **Minor**—Home Economics
Thesis: A Diagnostic and Corrective Study of Arithmetic in the Third, Fourth, and Fifth Grades in Lamarque Colored School, Lamarque, Texas 1947-1948
- SANDERS, CLARENCE HENRY **Major**—Administration and Supervision **Minor**—Sociology
Thesis: A Study of the Personnel, Status, and Educational Activities of the Negro Ministers of Dallas, Texas
- SCOTT, DORIS RAYFORD **Major**—Administration and Supervision **Minor**—Biology
Thesis: A Follow-Up Study of Students Who Have Left Phyllis Wheatley High School San Antonio, Texas Since 1942
- SIMPSON, ESTUS E. **Major**—Administration and Supervision **Minor**—Agricultural Education
Thesis: Students Withdrawals From the Independent High School of Bastrop County, Texas, During the Period 1936-1946
- SMITH, ALLIE R. HALL **Major**—English **Minor**—Administration and Supervision
Thesis: A Study of the Letter Writing of High School Students in Cuney High School
- SMITH, RAYMOND CLYDE **Major**—English **Minor**—Administration and Supervision
Thesis: A Recommended Program of Health and Physical Education for Alex S. Terrell High School Anderson, Texas
- SMITH, WALTER LEON **Major**—Biology **Minor**—Chemistry
Thesis: Low Temperature Tolerance of 7 Different Species of *Drosophila*
- TAYLOR, ALMUS LAMAR **Major**—Agricultural Economics **Minor**—Agricultural Education
Thesis: The Extent to Which Negro Farmers in Waller County Depend Upon Watermelons for their Cash Income
- THOMAS, CURTIS AUGUSTUS **Major**—Administration and Supervision **Minor**—Sociology
Thesis: A Suggested Supervisory Program for the Improvement of Learning and Teaching in the Luling Rosenwald School
- THOMAS, VERLIE AUGUSTA **Major**—Music Education **Minor**—Piano
Thesis: A Transcription for Symphony Orchestra of Beethoven's Piano Sonata, Opus 31, No. 2—First Movement
- TUBBS, LUTHER FREDERICK **Major**—Administration and Supervision **Minor**—Elementary Education
Thesis: A Status Study of Pupil Participation in School Control in Fourteen Accredited Negro High Schools of Texas by the Southern Association of Secondary Schools and Colleges
- WHEADON, JOHN RANDOLPH **Major**—Agricultural Economics **Minor**—Agricultural Education
Thesis: An Analysis of the Programs of Fourteen FSA Farms at Prairie View, Texas
- WINDOM, FRANCES LOUISE **Major**—English **Minor**—Sociology
Thesis: The Development of Thomas Wolfe

1948-1949

- ABRAMS, LARRY CARL **Major**—Agricultural Economics **Minor**—Administration and Supervision
Thesis: A Study of the Farm Management Programs of Fifty Negro Farmers in Bastrop County, Texas
- ADAMS, CLAUDE R. **Major**—Administration and Supervision **Minor**—Sociology
Thesis: The Historical Development of Education for Negroes in Texas
- ANDERSON, RAY QUINCY **Major**—Administration and Supervision **Minor**—History
Thesis: A Study of Negro Education in Kaufman County
- ARMSTRONG, ANNIE BELLE **Major**—Elementary Education **Minor**—Health Education
Thesis: Guiding Child Development as a Mean of Curbing Juvenile Delinquency
- BARLOW, EVA JANE **Major**—Administration and Supervision **Minor**—Elementary Education
Thesis: A Study of Attendance at Four Corners in Sugarland, Texas
- BOARD, EDNA THERESA **Major**—General Education **Minor**—Home Economics
Thesis: The Historical Development of the Public Schools for Negroes in Liberty County, Texas from 1918 to 1948
- BOYER, FAYE McCLELLAN **Major**—Sociology **Minor**—Elementary Education
Thesis: The Association of Mental Health and Behavior Characteristic of Elementary School Pupils

- BRADLEY, CHARLES O'NEIL Major—Administration and Supervision Minor—Elementary Education
 Thesis: A Study of Attendance in the Temple High School, Diboll, Texas
- BRIDGES, ESTHER H. Major—Elementary Education Minor—Health Education
 Thesis: A Suggested Organization for a Program of Recreation to Meet the Needs of the Youth of Walker County
- BROWN, ENOS E. Major—Agricultural Education Minor—Administration and Supervision
 Thesis: A Comparative Study of Urban and Rural Schools in Six Texas Counties
- BROWN, PAULINE R. Major—Home Economics Education Minor—Supervision
 Thesis: Analytical Study of the Activities and Problems of County Home Demonstration Agents in Texas
- BURLEY, ECOMET Major—Education Minor—Health
 Thesis: A Study of the Health Status of Fifty Negro Families in the Evans Springs Community
- BYRD, JAMES S. Major—Administration and Supervision Minor—Health Education
 Thesis: A Survey of the Health and Educational Conditions of the Negro Children in Madison County, Texas
- CLARK, BENJAMIN Major—History Minor—Education
 Thesis: The Development of Labor Unions in Agriculture in the Southwest With Special Reference to Texas, 1929-1941
- CLARKE, IRIS ELAINE Major—Sociology Minor—Secondary Education
 Thesis: Relations of Operator and Laborer in Rice Culture
- DANSBY, ANNIE B. MOORE Major—Elementary Education Minor—Rural Education
 Thesis: A Study to Determine What Effect the Discovery of Oil in Gregg County Has Had Upon the Development of its Colored High Schools
- DANSBY, CUNEY BRUCE Major—Administration and Supervision Minor—Rural Education
 Thesis: A Survey of Extra-Curricular Activities in A-Class High Schools in East Texas
- DANSBY, LERA H. Major—Administration and Supervision Minor—Health Education
 Thesis: A Study of the Status of Rural Negro Schools of Smith County
- DAVIS, WILLIAM O. Major—Administration and Supervision Minor—Industrial Education
 Thesis: A Study of the Chief State Educational Officer of the States of the United States 1948
- DAVISS, THEODORE R. Major—Administration and Supervision Minor—Health Education
 Thesis: A Study of Janitorial Services in Accredited Negro High Schools of Texas
- ENGLISH, LEON G. Minor—Agricultural Economics Minor—Physical Education
 Thesis: The Extent to Which Farmers Participate in the Cotton Improvement Program of Ellis County
- FISHER, COREAN J. BLAIR Major—Elementary Education Minor—English
 Thesis: Instructional Practices Used in Teaching the Social Studies in Grades Six, Seven, and Eight, in One Hundred Schools
- FORWARD, BARNEY Major—Administration and Supervision Minor—History
 Thesis: History of Education in Jasper County, Texas
- FRANKLIN, LUCKIE Major—Administration and Supervision Minor—Elementary Education
 Thesis: A Comparative Study of the Health Facilities of Jackson High School and Four Adjacent Schools in Smith County
- GOODEN, BURNICE Major—History Minor—Administration and Supervision
 Thesis: The Development of Negro Life in Madisonville, Texas Since 1900
- GOODEN, DORA E. Major—Elementary Education Minor—Health Education
 Thesis: Reorganizing the Curriculum in Madisonville, Texas Since 1900
- GREENE, EDWARD F. Major—Administration and Supervision Minor—Secondary Education
 Thesis: A Study of the Graduates, Eliminates, and Present Student Body of the Weldon Elementary School, Gladewater, Texas
- HARRIS, JAMES D. Major—Agricultural Economics Minor—Administration and Supervision
 Thesis: Development of Soil Conservation Measures in Ellis County With Respect to Economic Gains
- HINES, HARRY JAMES Major—Administration and Supervision Minor—Secondary Education
 Thesis: A Study of the Graduates and Drop-Outs of Booker T. Washington High School. Marlin, Texas—1937-1949
- JOHNSON, DAVIS P. Major—Rural Sociology Minor—Administration and Supervision
 Thesis: Current Aspects of Disciplinary Problems in Negro High Schools of Texas
- JOHNSON, EDDIE MARIE HOLMES Major—English Minor—Education
 Thesis: An Evaluation of a Free Reading Program in an Eleventh Grade
- JOHNSON, LEO JAMES Major—Administration and Supervision Minor—Rural Education
 Thesis: The Development of the Arp Vocational High School, Arp, Texas as a Consolidated School

- JONES, CONSULA FAYE Major—Elementary Education Minor—Administration and Supervision
 Thesis: The Influence of Some Home Factors on the Social and Academic Progress of the Second Grade Pupils of Frederick Douglass School, Jacksonville, Texas
- KEATTS, ROWENA W. Major—English Minor—Elementary Education
 Thesis: A Proposed Program of Language Art for the Eighth Grade in the Douglass Elementary School, Mexia, Texas
- KILPATRICK, ALICE J. Major—Education Minor—Home Economics Education
 Thesis: A Study of the Difficulties Encountered by Beginning Teachers Teaching in Certain Selected Negro Schools of Texas
- KING, LUCILLE MITCHELL Major—Administration and Supervision Minor—Health Education
 Thesis: A Proposed Guidance Program from Gudebye Junior High School
- KNIGHTON, EMERSON S., SR. Major—Administration and Supervision Minor—Sociology
 Thesis: A Survey of Instructional Practices and Materials Used in Teaching the Slow Learner in Negro High Schools of Texas
- LEE, ESCAR ROBERT Major—Agricultural Education Minor—Rural Education
 Thesis: Some Aspects on an Activity Program of All Day Boys Studying Vocational Agriculture in the Crockett District, Texas
- LEWIS, ODIS F. Major—Administration and Supervision Minor—Health Education
 Thesis: A Recommended Health Program for Goldsberry High School Gaston District, Henderson, Texas
- LINWOOD, TRYPHENA WINFRED Major—Elementary Education Minor—Health Education
 Thesis: Civics as the Predominant Subject to be Handled in the Social Studies
- MARK, JIM BOB Major—Agricultural Economics Minor—Agricultural Education
 Thesis: How Young Men Become Established in Farming in Tyler County, Texas
- McCLURE, FOSTER D. Major—Administration and Supervision Minor—Vocational Education
 Thesis: A Follow-up Study of the Graduates and Drop-Outs of the Summerfield Negro School, Ponta, Texas—1942-1949
- McDANIEL, DOYLE LEE Major—Agricultural Economics Minor—Administration and Supervision
 Thesis: Farm Tenancy in Robertson County, Texas
- MERCHEER, HERBERT Major—Physical Education Minor—Health Education
 Thesis: A Survey of the Health and Physical Education Programs in Class AA High Schools of Texas
- MITCHELL, TOMMYE MAYES Major—Home Economics Education Minor—Administration and Supervision
 Thesis: A Study of the Occupational Status of the Prairie View Home Economics Graduates—1922-1948
- MOSBY, COTTRELL M. Major—Administration and Supervision Minor—Elementary Education
 Thesis: The Availability of Educational Opportunities for Negroes in Hunt County
- MOSLEY, THOMAS W. Major—Administration and Supervision Minor—Health Education
 Thesis: A Survey of the Health Conditions of the Negroes in Trinity County and A Proposed Program of Health Education
- MUCKLEROY, EFFIE H. P. Major—Education Minor—Health Education
 Thesis: Conservation of Human Resources in Smith County
- OLIVER, JOSEPH GREEN Major—Administration and Supervision Minor—Elementary Education
 Thesis: The Availability of Educational Opportunities for Negroes in Leon County, Texas
- PAYNE, RUTH M. Major—Home Economics Education Minor—Administration and Supervision
 Thesis: An Evaluation of Diet Surveys and a Determination of Their Value as a Device For Improving Eating Habits of Youth in Six (6) Texas Counties
- PRUITT, JOHN W. Major—Administration and Supervision Minor—Business Administration
 Thesis: A Study of Rankings of Occupations on Basis of Social Status
- PUGH, GOLDA GASTON Major—Elementary Education Minor—Health Education
 Thesis: A Comparative Study of Handwriting Achievements of Beginners Trainer in Manuscript and Cursive Writing
- RHAMBO, ERNEST L. Major—Administration and Supervision Minor—General Education
 Thesis: An Occupational Survey As A Basis for the Establishment of Terminal Education at Wharton County Junior College (1949)
- SADBERRY, CHARLES L. Major—Administration and Supervision Minor—Elementary Education
 Thesis: A Ten Year Follow-Up Study of the Graduates of O. J. Thomas High School

- SADBERRY, JEWEL C. Major—Agricultural Economics Minor—Administration and Supervision
 Thesis: A Study of the Economic Status of Fifty Negro Farmers of Waller County, Texas
- SETTLE, JOHN THOMAS Major—Education Minor—Sociology
 Thesis: Social and Educational Effects of Consolidation on the Steber Grove Community in Rusk County
- SLAUGHTER, HENRI MAE Major—Education Minor—Health Education
 Thesis: A Survey of the Health Conditions of the Children of Carter G. Woodson School, Abilene, Texas
- STANTON, LONNIE A. Major—Administration and Supervision Minor—History
 Thesis: A Follow-Up Study of the Graduates of the Anderson High School, Mart, Texas for a Ten-Year Period 1938-1947 Inclusive With Implications on Curriculum Revision
- TARVER, MYRTLE MAYFIELD Major—Elementary Education Minor—Health Education
 Thesis: Health Conditions of Negroes in Beaumont, Texas and Their Implication for Health Education (Based on a Survey of 100 Families)
- TAYLOR, B. J. HAMMOND Major—Agricultural Education Minor—Agricultural Economics
 Thesis: Educational Procedures in the Development of the Agricultural Cooperatives of the Sabine Farms, Harrison County, Texas
- TAYLOR, FLOYD D. Major—Administration and Supervision Minor—Agricultural Education
 Thesis: A Proposed Plan of Consolidation of the Rural Schools for Negroes in Travis County, Texas
- TAYLOR, LORENE McAFEE Major—Elementary Education Minor—Rural Education
 Thesis: Methods of Procedures for Improving the Teaching of Art in the Primary Grades in the Kilgore Colored School
- VALLEY, ALONZO H. Major—Industrial Education Minor—Administration and Supervision
 Thesis: A Reorganization to Include a Suggested Curriculum for the Booker T. Washington High School, Dallas, Texas
- VAN POTTER, MATTIE N. Major—Elementary Education Minor—Sociology
 Thesis: A Diagnostic and Corrective Study of the First, Second, and Third Grade Arithmetic in the William Anderson Peete Elementary School of Tyler, Texas
- WASHINGTON, EDWARD L. Major—Administration and Supervision Minor—Agricultural Economics
 Thesis: A Comparative Study of the Affect of Family, Literary Background, Economic Status and Health on Attendance in Dunbar High School, Mexia, Texas
- WASHINGTON, SAMUEL Major—History Minor—Administration and Supervision
 Thesis: The Land-Grant Colleges for Negroes 1914-1945; A Study of Higher Education
- WHITE, INMAN Major—Agricultural Economics Minor—Administration and Supervision
 Thesis: A Study of the Soil Conservation Practices of Fifty Negro Farmers in Waller County, Texas
- WILSON, DOROTHY B. Major—Elementary Education Minor—Administration, and Supervision
 Thesis: A Diagnostic Study of Reading Deficiencies and Corrective Measures of Grades Four Through Ten of Carver High School, Brackettville, Texas

MASTER OF ARTS— 1949-1950

- BONEY, CLARA B. PAYNE Major—Piano Minor—Music Education
 Piano Recital
- CARROLL, MARGARET E. Major—English Minor—Administration and Supervision
 Thesis: A Proposed Reading Program for St. Paul-Shiloh High School, Oakwood, Texas
- COLLIER, DOLPRUS E. PERRY Major—English Minor—History
 Thesis: The Negro's Role in Legitimate Drama
- DARDEN, ROSE ETTA Major—Sociology Minor—Education
 Thesis: Occupational Status of Prairie View Sociology Major and Minor Graduates 1929-49
- FOWLER, IOLA M. Major—English Minor—Education
 Thesis: The Morbid Element in the Poetry of James Thompson
- MACK, RICHARD M. Major—Music Minor—Administration and Supervision
 Thesis: A Study of the Organization and Administration of 25 Negro High School Bands in Texas
- MUSGROVE, GEORGE ANNE TURNER Major—English Minor—Education
 Thesis: A Study of the Reading Habits of the Students of Carver High School
- PAYNE, JAMES H. Major—Sociology Minor—History
 Thesis: The Effects of Social and Economic Influences on Negro High School Attendance in Navasota 1945-1950

WASH, MARGARET S. Major—Music Minor—Piano
Thesis: The Formulation of a Plan for Increasing the Per Cent of Student Participation in High School Musical Activities

WELLS, LUTHER T. Major—Music Minor—Piano
Thesis: Beethoven, Balance of Expression and Design

MASTER OF EDUCATION

- ADAMS, ESTER ALTON Major—Elementary Education Minor—Administration and Supervision
- ADAMS, EULAH MAYE POWELL Major—Elementary Education Minor—Health Education
- ALEXANDER, JOHN ALDEN Major—Administration and Supervision Minor—Elementary Education
- ALLEN, PHYLLIS H. Major—Elementary Education Minor—Health Education
- BARLOW, BENJAMIN J. Major—Administration and Supervision Minor—Health Education
- BLOCKER, ROBERT B. Major—Industrial Education Minor—Education
- BRADLEY, CHRISTY MAXINE Major—Administration and Supervision Minor—English
- BRAILSFORD, ARTIE Major—Administration and Supervision Minor—Agriculture
- BROWN, JOE LEE Major—Education Minor—Biology
- BURNETT, FRED DOUGLASS Major—Administration and Supervision Minor—Elementary Education
- BYRD, ROXIE DORIS Major—Elementary Education Minor—Sociology
- CANADA, JOHN KINGSTON Major—Administration and Supervision Minor—Health
- CLEAVER, EUGENE EMUEL Major—Administration and Supervision Minor—Agricultural Education
- COLEMAN, JETTIE Major—Home Economics Education Minor—Administration and Supervision
- COLEMAN, SHERMAN Major—Administration and Supervision Minor—Agricultural Education
- COLLINS, HORACE HAROLD Major—Administration and Supervision Minor—Economics
- CRAWFORD, FLORINE EASLEY Major—Home Economics Minor—Elementary Education
- FORTSON, ETHEL GLADYS BILES Major—Elementary Education Minor—Administration
- FOWLER, CARLEAN MERIEN WELLS Major—Education Minor—History
- FRAZIER, MARGARET BEATRICE Major—Education Minor—History
- GOODMAN, LULA WARREN Major—Administration and Supervision Minor—Elementary Education
- HARDEMAN, FLORENCE E. D. Major—Home Economics Minor—Elementary Education
- HARRIS, JOEL Major—Administration and Supervision Minor—Industrial Education
- HERRING, FAIRY L. Major—Administration and Supervision Minor—Elementary Education
- HILL, LOVIE M. Major—Home Economics Minor—Administration
- JACKSON, HORACE R. Major—Education Minor—Sociology
- JESSIE, A. J. Major—Administration Minor—Education
- JOHNSON, COMPTON HORACE Major—Administration and Supervision Minor—Health Education
- JOHNSON, LOY ARNOLD Major—Administration and Supervision Minor—Health Education
- JOHNSON, MARY BELLE Major—Elementary Education Minor—Health Education
- JONES, EULA MAE Major—Home Economics Minor—Administration and Supervision
- KING, ORA STARR Major—Elementary Education Minor—Health
- LISTON, IDA Major—Administration and Supervision Minor—Elementary Education
- LYONS, ALICE Major—Administration and Supervision Minor—Home Economics Education
- MARSHALL, D. M. Major—Administration and Supervision Minor—Elementary Education
- McKINNEY, MILTON Major—Administration and Supervision Minor—Health Education
- MERIDITH, GROVER C. Major—Administration and Supervision Minor—Education
- MOODY, FREDDIE R. Major—Elementary Education Minor—Home Economics

- MORRIS, MITTIE A. Major—Education Minor—English
- PALMER, WILLIE HARVEY, SR. Major—Administration and Supervision Minor—Agricultural Education
- PITTS, ALLIE FAYE Major—Elementary Education Minor—Sociology
- POWELL, A. B. Major—Administration and Supervision Minor—Elementary Education
- PRICE, A. L. Major—Administration and Supervision Minor—Sociology
- PROBASCO, JEANETTA FOSTON Major—Education Minor—Home Economics
- PYLE, BAILEY JEFFERSON Major—Administration and Supervision Minor—Elementary Education
- ROSS, DELIA P. Major—Elementary Education Minor—Administration and Supervision
- SANDERS, EMMA IDELL Major—Elementary Education Minor—Administration and Supervision
- SANDERS, ROBERT BERT Major—Administration and Supervision Minor—Elementary Education
- SHEFFIELD, CELIA R. Major—Elementary Education Minor—Health Education
- SMITH, IOLA BROWN Major—Elementary Education Minor—Administration and Supervision
- TAYLOR, E. D. REAN Major—Administration and Supervision Minor—Music
- THOMAS, DANIEL WEBSTER Major—Administration and Supervision Minor—Health
- TRAYLOR, ELMA LOIS MCKENZIE Major—Elementary Education Minor—Administration and Supervision
- TURNER, ANGELINE CROWE Major—Elementary Education Minor—Health Education
- TURNER, ODIS H. Major—Administration and Supervision Minor—Health
- WADDY, EDWARD S. Major—Administration and Supervision Minor—Elementary Education
- WESLEY, BENNIE J. Major—Administration and Supervision Minor—Elementary Education
- WRIGHT, THOMAS JEFFERSON Major—Administration and Supervision Minor—Health Education
- YOUNG, PAULINE A. Major—Elementary Education Minor—Administration and Supervision

MASTER OF SCIENCE

- ADAMS, CORDELIA C. Major—Elementary Education Minor—Home Economics
Thesis: The Role of Informal Education in the Treatment and Prevention of Juvenile Delinquency
- ALLEN, DELLA MAE Major—Physical Education Minor—Health
Thesis: A Proposed Program of Health and Physical Education for the Goliad Colored High School
- ANDERSON, WILLIE JAMES Major—Administration and Supervision Minor—Elementary Education
Thesis: The Problem of Attendance in the Colored Schools of Trinity County
- BLUITT, LEROY Major—Administration and Supervision Minor—Sociology
Thesis: Reading Difficulties in a Low Ninth Grade Group at the Lincoln High School Dallas, Texas 1948-1949
- BOLDEN, VERNON VAN Major—Chemistry Minor—Administration and Supervision
Thesis: The Preparation of Yeast Nucleic Acid and its Effect on the Growth of Rats
- BRITTON, LAWRENCE MILTON Major—Physical Education Minor—Administration and Supervision
Thesis: A Survey of the Leisure Time Activities of the Male Students of Prairie View Agricultural and Mechanical College With Suggestions for Improvements
- BROWN, FRED DOUGLASS Major—Agriculture Minor—Administration and Supervision
Thesis: A Study of Rose Production and Rose Products
- BROWN, TRUDIE Major—Education Minor—English
Thesis: Analysis of the Spelling Errors Found in the Seventh and Eighth Grades in Judea High School, 1949-1950
- CASH, LARRY B. Major—Agricultural Education Minor—Agricultural Economics
Thesis: Educational Implication of the Incidence of Negro Participation in Producer Consumer Cooperatives
- CLAYBON, DENNIS L. Major—Administration and Supervision Minor—Elementary Education
Thesis: A Study of Special Education in Texas with Particular Reference to the Orthopedically Handicapped Children in Texas

- CLAYBON, LAURIE E. Major—Administration and Supervision Minor—Elementary Education
 Thesis: A Proposed Physical Plant for the Forney Negro School with Special Reference to Consolidation
- CLEAVER, LEROY Major—Chemistry Minor—Education
 Thesis: The Catalytic Oxidation of Toluene in the Vapor Phase to Benzoic Acid
- COLLINS, MILLIE S. Major—Administration and Supervision Minor—Economics
 Thesis: The Role of Custom in the Diets of One Hundred Negro Families
- DOUGLASS, BLANCHE M. Major—Home Economics Education Minor—Administration and Supervision
 Thesis: The Study of the Food Consumption of Twenty Families in Post Oak Community, Ledbetter, Texas
- FLUEWELLEN, LUZONE Major—Education Minor—Home Economics
 Thesis: A Proposed Adult Education Program for the Arp Colored School Community, Arp, Texas
- FORWARD, IDA MAE Major—Elementary Education Minor—Health Education
 Thesis: A Study of Speech Defects as Found Among Negro Elementary School Children of Jasper County
- FOSTON, ARTHUR LEE Major—Administration and Supervision Minor—Mathematics
 Thesis: The Administration of Mathematics in a Selected Group of Negro Secondary Schools in Texas
- GAYNOR, NORVEL Major—Administration and Supervision Minor—Elementary Education
 Thesis: A Follow-up Study of the Graduates and Drop-Outs of the Hooks Colored High School, Hooks, Texas
- GOODE, JESSE F. Major—Administration and Supervision Minor—Elementary Education
 Thesis: An Analysis of the Records Kept in the Negro Elementary Schools of Texas
- GRAYS, HARRISON WELDON Major—Agricultural Economics Minor—Agricultural Education
 Thesis: An Economic Study of Fifty Dairy Farms in Hopkins County From 1938 to 1948
- GREEN, BERNICE J. Major—Physical Education Minor—Education
 Thesis: A Study of the Leisure Time Activities of the Negro Physical Education Teachers of Houston, Texas
- HALLMAN, GRANT T. Major—Agricultural Economics Minor—Administration and Supervision
 Thesis: Historical Study of the Rural Electrification Administration and the Development of the Navarro County Electric Co-op
- HILLMAN, RUTH VIRGIL Major—Administration and Supervision Minor—Health
 Thesis: A Tentative Survey of the Home Room as a Unit of Organization in the Four-Year Public High School of Texas
- McDANIEL, MATTYE MAYCEO Major—Education Minor—Home Economics
 Thesis: A Study of the Administrators' Opinions of the Difficulties Experienced by Beginning Teachers in Selected Negro High Schools in Texas, 1949-50
- McGOWEN, MABEL YOUNG Major—Education Minor—Health
 Thesis: A Diagnostic and Remedial Speech Correction Instruction Program for First Grade Pupils with Specific Speech Disorders in the Carroll Street Elementary School
- McGARY, HELEN RUTH Major—Administration and Supervision Minor—Elementary Education
 Thesis: A Progress Report of Three Years Study of Reading in Cass County
- MARSHALL, T. D. Major—Administration and Supervision Minor—Elementary Education
 Thesis: Evaluation of the Lincoln High School
- MOLETT, FRANCIS A. Major—Administration and Supervision Minor—Elementary Education
 Thesis: A Suggestive Program for the Improvement of Public Relations in Hebert High School, Beaumont, Texas
- MOLETT, NAOMI LEE GUIDRY Major—Elementary Education Minor—Health
 Thesis: A Study of the Vocabulary Used and Spelling Errors Made in Written Compositions of the Sixth-Grade Children in the Hebert Elementary School of Beaumont, Texas
- MOSELEY, ERA MARIE Major—Elementary Education Minor—Administration and Supervision
 Thesis: Determining Reading Readiness of all First Grade Negro Children Entering Longview Public Schools
- PIERSON, FRANK R. Major—Administration and Supervision Minor—Physical Education
 Thesis: Suggested Aims and Procedures Designed to Develop Desirable Community School Relationship in the Charlton Pollard School
- PORTIS, VIVIAN Major—Elementary Education Minor—Administration and Supervision
 Thesis: A Survey of the Health Conditions of the Negro Section of Calvert, Texas and Their Possible Effect on Elementary School Children

- RANDALL, CHARLES F. Major—Agricultural Economics Minor—Administration and Supervision
 Thesis: A Study of the Farm Management Practices of Fifty Negro Farmers in McLennan County, Texas
- REECE, FRONCELL, Major—Agricultural Economics Minor—Physical Education
 Thesis: A Study of the Economic Status of Fifty Negro Farm Families of Montgomery County, Texas
- REYNOLDS, LEATHA MARGARET Major—Education Minor—English
 Thesis: A Diagnostic Study for the Correction of Speech Defects Found in the Colored Elementary School of LaMarque, Texas
- RUTLEDGE, PAUL Major—Agricultural Education Major—Administration
 Thesis: An Analysis of Official Travel Done by Vocational Agriculture Teacher
- SAUNDERS, OWENA HALL Major—Elementary Education Minor—Health Education
 Thesis: An Evaluation of Choral Reading in the Elementary Grades
- SIMS, VAN E. Major—History Minor—Administration and Supervision
 Thesis: The Willette Rutherford Banks Administration: A Study of the Historical Development of the Prairie View Agricultural and Mechanical College
- SPROTT, GLADYS Major—Elementary Education Minor—Health Education
 Thesis: A Suggested Program for Organization of Special Education for Negro Children in the South Park School District, Beaumont, Texas
- TANKSLEY, HASSELL Major—Physical Education Minor—Health Education
 Thesis: A Survey of the Health and Physical Education Program in the Negro Colleges and Universities of Texas
- TAYLOR, ELVIE Major—General Education Minor—Home Economics Education
 Thesis: Proposed Guidance Program for Goliad Colored School in Goliad, Texas
- WALKER, JEFFERSON D. Major—Administration and Supervision Minor—Industrial Education
 Thesis: A Survey of the George Washington Carver High School, Navasota, Texas
- WALKER, JOHNNIE MAE Major—Elementary Education Minor—Administration and Supervision
 Thesis: A Survey of Variable Factors Affecting a Group of Children in the Fifth and Sixth Grades at Harlem Elementary School, Baytown, Texas
- WASHINGTON, ELZADIE L. Major—Administration and Supervision Minor—Elementary Education
 Thesis: A Study to Determine the Causes of Instructional Problems and Handicaps of the Elementary Teachers of Limestone and Freestone Counties
- WHITE, DEMOSTHENES Major—Agricultural Education Minor—Administration and Supervision
 Thesis: The Effects of Vocational Education in Agriculture on Farming in Wharton County, Texas
- WHITE, JOHNNIE MAE Major—Administration and Supervision Minor—Home Economics Education
 Thesis: The Environmental Forces in the Behavior and Development of 411 Freshmen Enrolled at Prairie View 1947-48
- WRIGHT, HELEN ALEXANDER M. Major—Education Minor—Supervision
 Thesis: A Five-Year Study of Students who Graduated from the Elementary Schools in the Common School Districts of Nacogdoches County 1944-45

MASTER OF ARTS—1950-1951

- BOOZER, IRENE Major—Sociology Minor—Administration and Supervision
 Thesis: A Study of Consumer Training of Nursery and Elementary School Children at Prairie View
- FRAZIER, LODIE HENDERSON Major—Music Education Minor—Music Theory
 Thesis: A Revision of the Music Program of Fidelity Elementary School, Houston, Texas
- KILLYON, EVERETT A. Major—History Minor—Education
 Thesis: The Coming of Industrial Education to the South: With Special Reference to the Negro
- MAJOR, ALLIE PAYNE Major—Piano Minor—Music Education
 Piano Recital
- McMILLAN, LEMMON C. Major—Economics Minor—Administration and Supervision
 Thesis: Some Aspects of Monopoly Power in the United States
- MUNDINE, RUTH UPTON Major—Music Theory Minor—Piano
 Thesis: Analysis of the Overture Fantasy to Romeo and Juliet—Peter Ilitch Tchaikowsky
- PERKINS, LEE ESTER Major—Economics Minor—History
 Thesis: The Dynamics of Labor Organization in Industry
- VENTERS, RUFUS Major—Sociology Minor—History
 Thesis: A Study of Adult Education for Negroes in Texas

MASTER OF EDUCATION

- ALLEN, DONALD WEBSTER Major—Administration and Supervision Minor—Elementary Education
- ALLEN, MALONE Major—Administration and Supervision Minor—Elementary Education
- AMMONS, OLIVER SEAY Major—Elementary Education Minor—Administration and Supervision
- ANDERSON, GEORGE Major—Administration and Supervision Minor—Elementary Education
- ANTHONY, VERNON AUGUST Major—Administration and Supervision Minor—Elementary Education
- ARMSTRONG, EVA Major—Elementary Education Minor—English
- BELL, ULYSSES SIMPSON Major—Industrial Education Minor—Administration and Supervision
- BESS, BIRDIE MAE Major—Elementary Education Minor—Health Education
- BOUDREAUX, GERTRUDE SIMPSON Major—Administration and Supervision Minor—Elementary Education
- CADE, HAROLD EDWARD Minor—Administration and Supervision Minor—Elementary Education
- CARTER, MARY HEADS Major—Administration and Supervision Minor—Elementary Education
- CHAMPION, CLYDE C. Major—Administration and Supervision Minor—Elementary Education
- CLEVELAND, ERIE MILAN Major—Elementary Education Minor—Administration and Supervision
- COBB, LOUISE REDDIC Major—Elementary Education Minor—Administration and Supervision
- CUNNINGHAM, IRENE DIXON Major—Elementary Education Minor—Health Education
- DAVIS, WILLIAM MARION Major—Administration and Supervision Minor—Elementary Education
- DOUGLASS, AUDREY HICKEY Major—Elementary Education Minor—Administration and Supervision
- DUNLAP, JOHNNIE LLOYD Major—Administration and Supervision Minor—Elementary Education
- EUGENE, ADMONIA MAUDE Major—Administration and Supervision Minor—Elementary Education
- EVANS, MOSE WILLIAM Major—Administration and Supervision Minor—Elementary Education
- FARRIS, JAMES RANDOLPH Major—Administration and Supervision Minor—Elementary Education
- FENET, JOHN W. Major—Administration and Supervision Minor—Elementary Education
- FIELDS, HAROLD DOCK Major—Administration and Supervision Minor—Health Education
- FONTENOT, WALTER PAUL Major—Administration and Supervision Minor—Agricultural Education
- GAINES, HOBART LEROY Major—Administration and Supervision Minor—Elementary Education
- GERALD, DELORES FAY Major—Elementary Education Minor—Administration and Supervision
- GLOVER, THEODORE VOYLAND Major—Administration and Supervision Minor—Elementary Education
- GRAY, ANNIE MARY Major—Elementary Education Minor—Administration and Supervision
- GREGORY, ROBERT LEE Major—Elementary Education Minor—Administration and Supervision
- HACKETT, DAISY PEARL Major—Elementary Education Minor—Administration and Supervision
- HARRISON, MEATRA Major—Administration and Supervision Minor—Elementary Education
- HARRISON, MEATRA DEVERA Major—Home Economics Minor—Administration and Supervision
- HENNINGTON, SAMUEL H. Major—Administration and Supervision Minor—Industrial Education
- HERNDON, KATHERYN WADE Major—Elementary Education Minor—Health Education
- HILL, EULALIA MONTGOMERY Major—Home Economics Minor—Elementary Education

- HILL, GARFIELD Major—Administration and Supervision Minor—Elementary Education
- JACKSON, EUGENIA BUTLER Major—Elementary Education Minor—Health Education
- JOHNS, CLARENCE ALBERT Major—Administration and Supervision Minor—Agricultural Education
- JOHNSON, ESTELLA SELLS Major—Elementary Education Minor—Administration and Supervision
- JOHNSON, LUCILLE MILDRED Major—Elementary Education Minor—Health Education
- JONES, WILLIAM EVERETT Major—Industrial Education Minor—Administration and Supervision
- KENNARD, ANNIE MAE Major—Elementary Education Minor—Administration and Supervision
- KNOX, MABLE E. WELLS Major—Elementary Education Minor—Administration and Supervision
- LEWIS, CHARLIE MARION Major—Administration and Supervision Minor—Health Education
- LEWIS, ESTHER RUTH Major—Home Economics Education Minor—Health Education
- LOGAN, WILLIAM DAVID Major—Administration and Supervision Minor—Elementary Education
- McCANN, LOIS Major—Administration and Supervision Minor—Health Education
- McDONALD, FALONIA Major—Administration and Supervision Minor—Health Education
- MOORE, ALBERTA JANNIE Major—Elementary Education Minor—Health Education
- MOSLEY, TENOLA ROBERTS Major—Elementary Education Minor—Administration and Supervision
- MUCKLEROY, MATTIE LEE Major—Administration and Supervision Minor—Home Economics
- PETTIE, HENRY Major—Industrial Education Minor—Administration and Supervision
- PETTY, GRAYSON RICHARD Major—Industrial Education Minor—Administration and Supervision
- POWELL, MYRTLE EULAH Major—Elementary Education Minor—Health Education
- RAGSDALE, OPAL MARTHA Major—Elementary Education Minor—Administration and Supervision
- RHAMBO, OLIVIA VIRGINIA Major—Elementary Education Minor—Administration and Supervision
- SADBERRY, OLIVER WHONE Major—Administration and Supervision Minor—Elementary Education
- SMITH, ZORA M. Major—Home Economic Education Minor—Elementary Education
- SPENCER, ISAAC Major—Administration and Supervision Minor—Health Education
- SPIGNER, WILLIE DANIEL Major—Administration and Supervision Minor—Elementary Education
- STEWART, CHARLES EDWARD Major—Administration and Supervision Minor—Elementary Education
- STEWART, GENEVA TERRELL Major—Administration and Supervision Minor—Health Education
- TAYLOR, ETHEL LEE TURNER Major—Elementary Education Minor—Administration and Supervision
- THOMAS, ANNIE BEAVER Major—Elementary Education Minor—Sociology
- THOMAS, HARVEY LEROY Major—Administration and Supervision Minor—Health Education
- THOMAS, TESSYE BELL Major—Elementary Education Minor—Administration and Supervision
- TURNER, RUBY LEE Y. Major—Elementary Education Minor—Administration and Supervision
- TYLER, JOHNNIE MAE Major—Elementary Education Minor—Home Economics
- WALKER, LLOYD HAROLD Major—Administration and Supervision Minor—Elementary Education
- WATSON, BRIDGET Major—Elementary Education Minor—Health Education
- WHEAT, EDWIN ENGRAM Major—Administration and Supervision Minor—Health Education
- WILHITE, OSCAR EUGINE Major—Administration and Supervision Minor—Elementary Education
- WILLIAMS, FREDERICK DOUGLAS Major—Administration and Supervision Minor—Elementary Education
- WILLIAMS, ORA LEE Major—Administration and Supervision Minor—Health Education

- WILSON, CHARLES EMILY Major—Elementary Education Minor—Health Education
 WILSON, LOIS M. BROWN Major—Elementary Education Minor—Administration
 and Supervision
 WOODFORK, IRVIN HUGHES Major—Administration and Supervision Minor—Agricultural
 Education

MASTER OF SCIENCE

- ANDERSON, DESSIE MAE Major—Elementary Education Minor—Administration
 and Supervision
 Thesis: A Study to Determine Factors Causing Irregular Attendance and Recommendations
 for the same among the Elementary Children of Woodland School, Mexia,
 Texas
- BATTS, FRED D. Major—Administration and Supervision Minor—Elementary Educa-
 tion
 Thesis: A Follow-up Study of the Graduate and Drop-outs of the John M. Moore School
 1942-1948
- BLANCHE, MARY TURNER Major—Administration and Supervision Minor—Elemen-
 tary Education
 Thesis: The Preparation and Assignment of the Staff at I. M. Terrell High School, Fort
 Worth, Texas
- BOOZER, FLOYDE E. Major—Agricultural Education Minor—Administration and
 Supervision
 Thesis: A Study of the Farming Practices of Fifty Negro Farmers in Leon County,
 Texas
- BOOZER, IRENE A. Major—Sociology Minor—Administration and Supervision
 Thesis: A Study of Consumer Training of Nursery and Elementary School Children at
 Prairie View
- BOULEWARE, HUGH ETTA Major—Administration and Supervision Minor—Health
 Education
 Thesis: A Follow-up Study of the Recipients of the Master's Degree from Prairie View
 Agricultural and Mechanical College
- BRADLEY, EDDIE M. R. Major—Administration and Supervision Minor—Elementary
 Education
 Thesis: A Study of Retardation in Rosenwald School, Luling, Texas, and Carver School,
 Lockhart, Texas, Grades 9-12
- BRISCOE, HATTIE RUTH ELAM Major—Administration and Supervision Minor—In-
 dustrial Education
 Thesis: Factors Involved in Student Failure at Texas State Board of Hairdressers and
 Cosmetologists
- BROWN, CONNIE M. Major—Administration and Supervision Minor—Biology
 Thesis: Some Significant Implications of the Testing Program at Prairie View A. & M.
 College
- COTTON, WALTER F. Major—Administration and Supervision Minor—Elementary
 Education
 Thesis: Cultural Development of Negroes of Limestone County since 1860
- CUNNINGHAM, IVEY C. Major—Elementary Education Minor—Health Education
 Thesis: Factors Affecting Establishment in Farmers
- DAILEY, HAZEL SMITH Major—Administration and Supervision Minor—Elementary
 Education
 Thesis: A Study of the Attitudes of the Personnel of Selected Schools Toward the Visit-
 ing Teacher Program
- DAVIS, LILLIE LOUISE Major—Home Economics Minor—Elementary Education
 Thesis: The Role of Nutrition in the Incidence of Infectious Diseases and Dietary Treat-
 ment During the Febrile Period
- DOUGLAS, ALFRED F. Major—Agricultural Education Minor—Administration and
 Supervision
 Thesis: The Effectiveness of Vocational Agricultural Instruction in Post Oak Com-
 munity, Ledbetter, Lee County, Texas
- ECHOLS, JACK W. Major—Administration and Supervision Minor—Elementary Edu-
 cation
 Thesis: Changing Conceptions of School Discipline and Control of School Children
- ELLIS, HASKO V. Major—Agricultural Economics Minor—Administration and Super-
 vision
 Thesis: A Study of the Farming Systems used by Fifty Negro Farm Families of Hender-
 son County, Texas
- FOREMAN, ROBERT B. Major—Administration and Supervision Minor—Elementary
 Education
 Thesis: What the Patrons of the Mexia Colored School District Expect of the School
 and Teacher

- FRANKLIN, CLARENCE LEWIS **Major**—Administration and Supervision **Minor**—Biology
Thesis: A Survey of the Guidance Practices of the Homeroom Sponsors at Dunbar High School, Lufkin, Texas
- HUDSON, BETODIA A. **Major**—Elementary Education **Minor**—Health Education
Thesis: A Study of Some Factors Influencing the Social Behavior of Selected Pupils of Blackshear School, Hearne, Texas
- JOHNS, WILLIA M. **Major**—Home Economics Education **Minor**—Elementary Education
Thesis: An Investigation of Homemaking Needs of Certain Adolescent Girls and Factors Influencing their Enrollment in Homemaking Courses
- KIRK, GRETEL **Major**—Administration and Supervision **Minor**—Elementary Education
Thesis: The Community School From 1940 to 1950
- KISSAM, WILLIAM LOWELL **Major**—Agricultural Education **Minor**—Agricultural Economics
Thesis: A Study of Supervision of Farming Programs of all Day Students as Conducted by Selected Negro Teachers of Vocational Agriculture in Texas
- LEE, WALTER A. JR. **Major**—Agricultural Education **Minor**—Administration and Supervision
Thesis: A Program of Work for 4-H Club Boys in Panola County
- LOVE, JEWEL W. **Major**—Education **Minor**—Music
Thesis: A Functional Program for the Teaching of Music in Love High School, Bremond, Texas
- McGEE, CECIL J. **Major**—Education **Minor**—Home Economics Education
Thesis: An Effective Program for Teaching Social Hygiene in Furney Richardson School
- MARK, BERNICE PORTER **Major**—Administration and Supervision **Minor**—Health Education
Thesis: A Study of the Vocational Choices of the Negro High School Students in Polk and Tyler Counties, Texas
- MARSHALL, MATTIE C. **Major**—Elementary Education **Minor**—Administration and Supervision
Thesis: A Study of the Cause of Retardation in Reading in the F. W. Gross School
- MILLER, WEBSTER **Major**—Administration and Supervision **Minor**—Health Education
Thesis: A Study of the Literature of Homogenous Grouping
- MITCHELL, WILLIE **Major**—Biology **Minor**—Chemistry
Thesis: The Psychological Effects of Low Temperature on Rats
- MOORE, ZADIE B. HODGE **Major**—Administration and Supervision **Minor**—Elementary Education
Thesis: A Suggested Program for Organization of Special Education for Negro Children in Corsicana, Texas
- MORRIS, MURRELL LEE **Major**—Physical Education **Minor**—Health Education
Thesis: A Survey of the Health and Physical Education Program of the Accredited Negro High Schools of Texas—1951
- POLLARD, JOHN A. **Major**—Administration and Supervision **Minor**—English
Thesis: Some Methods of Improving Attendance in Bowie County Negro Public Schools
- RANDALL, ELMER **Major**—Physical Education **Minor**—Health Education
Thesis: A Survey of the Health and Physical Education Program for Boys in the Negro State Approved, but not State Accredited High Schools of Louisiana for the School Year 1950-51
- ROBERTS, JOHNNIE D. **Major**—Physical Education **Minor**—Health Education
Thesis: A Profile of Class AA Coaches in Texas
- SADBERRY, ALONZO J. **Major**—Administration and Supervision **Minor**—Agricultural Economics
Thesis: A Study of the Guidance Practices in Negro Senior High Schools of Houston, Texas
- SMITH, GERTRUDE B. **Major**—Elementary Education **Minor**—Administration and Supervision
Thesis: Determining to what Extent Community Resources are used as Teaching Aids in the Eight Negro Elementary Schools of Waller County
- SMITH, ROSA MALONE **Major**—Elementary Education **Minor**—Administration and Supervision
Thesis: The Integration of Music in the Curriculum for the Alex S. Terrell Elementary School, Anderson, Texas
- TURNER, WILBUR ALDEN **Major**—Agricultural Economics **Minor**—Administration and Supervision
Thesis: A Problem of Soil Conservation in the Farming Program of Fifty Negro Farmers in Morris County Texas
- WADDY, MAGGIE M. **Major**—Home Economics Education **Minor**—Elementary Education
Thesis: The Study of the Diet Habits and Some Related Factors of Pupils in the Fifth, Sixth, Seventh and Eighth Grades of Wharton County Schools, Texas

- WADE, LILLIAN HENRY Major—Elementary Education Minor—Health Education
Thesis: Pupil-Teacher Promotion in Kirkpatrick School, Fort Worth, Texas
- WASHINGTON, RUTHIE M. Major—Elementary Education Minor—English
Thesis: A Comparative Study of the Social Studied Objectives and Environmental Influences of 1,398 Negro Children in the State of Texas
- WILLIAMS, ELZIE R. Major—Administration and Supervision Minor—Elementary Education
Thesis: A Program for the Improvement of Public Relation in the Elderville School District, Longview, Texas
- WILLIAMS, JOSIE BROWN Major—Home Economics Education Minor—Education
Thesis: Life Adjustment Programs of Homemaking Teachers in Area III Texas
- WILSON, SARAH ANN Major—Home Economics Minor—Education
Thesis: A Study of the Area of Conflict Between 100 Adolescents and their Parents in Yoakum, Texas
- WILSON, SHERMAN S. Major—Chemistry Minor—Biology
Thesis: The Effects of Vitamin B-12 and Liver Extract on the Utilization of Carotene
- WOODS, LEON A. JR. Major—Chemistry Minor—Biology
Thesis: The Effects of Different Levels of Octyl Hydroquinone on the Utilization of Carotene by the Rat
- YANCY, DORIS B. Major—Elementary Education Minor—Administration and Supervision
Thesis: Adjusting the Curriculum to Meet the Needs of Slow Learning Children in the Second Grade of Carver Elementary School Bryan, Texas

MASTER OF ARTS—1951-1952

- BISHOP, DARRYL COTTRELL Major—Economics Minor—Education
Thesis: A Study of the Government and Labor Relations in the Atomic Energy Industry
- HAWKINS, MARJORIE BROWN Major—History Minor—Education
Thesis: Runaway Slaves in Texas From 1830 to 1860
- KIMBLE, WESTERFIELD ALTHEA TUCKER Major—History Minor—Economics
Thesis: An Analysis of the Methods of Teaching History in Seventeen High Schools for Negroes in Texas
- LACY, VERA KIRKSEY Major—Music Education Minor—Piano
Thesis: Opportunities for the Development of Social Values Through Group Musical Activities
- McGOWAN, CURTIS BRAYTON Major—History Minor—Education
Thesis: The Historiography of Carter G. Woodson
- MARTIN, CARL JAMES Major—Music Education Minor—Music Theory
Thesis: A Suggested Music Program for the Dunbar High School, Lufkin, Texas
- MARTIN, ROWLAND JERRY Major—Piano Minor—Music Theory
Piano Recital
- MILES, ABRAM Major—Music Education Minor—Education
Thesis: Building An Instrumental Program in the Small School
- ROBBINS, HAL JR. Major—History Minor—Administration and Supervision
Thesis: History of Slavery in Texas and the Southwest
- SHEPARD, LILLIAN MARJORIE JOHNSON Major—English Minor—Elementary Education
Thesis: A Study of the Written Composition of One Hundred English Students in the O. J. Thomas High School for the Year 1951-1952 to show how they Reveal the Cultural Background of the Students

MASTER OF EDUCATION

- ADAMS, BELLE BRYANT Major—Elementary Education Minor—Administration and Supervision
- ADAMS, JOHNNIE MAE Major—Elementary Education Minor—Administration and Supervision
- ALLEN, CLEMENTINE BECTON Major—Elementary Education Minor—Administration and Supervision
- ANDERSON, MAE HOPKINS Major—Elementary Education Minor—Health Education
- ANDREWS, DOROTHY JEANETT Major—Education Minor—English
- ARNOLD, TIMOXENA FURLOW Major—Administration and Supervision Minor—Health Education
- BAKER, LEATRES MOORE Major—Elementary Education Minor—Health Education
- BANKS, OLIVIA MOSLEY Major—Elementary Education Minor—Administration and Supervision
- BAZIL, THERESA GAINES Major—Elementary Education Minor—Administration and Supervision

- BELL, TENOLA STONEY Major—Home Economics Education Minor—Administration and Supervision
- BLACK, DILLIE BELLE PHILLIPS Major—Elementary Education Minor—Administration and Supervision
- BOSTON, ARBIRDA MUNSON Major—Elementary Education Minor—Health Education
- BRISCOE, EDWARD JEWELL Major—Administration and Supervision Minor—Elementary Education
- BRITTON, JANNYE MORGAN Major—Elementary Education Minor—Health Education
- BROWN, LIBBIE NICKERSON Major—Elementary Education Minor—Health Education
- CAMPBELL, JULIA MUCKLEROY Major—Elementary Education Minor—Administration and Supervision
- CARTER, EVELYN K. Major—Elementary Education Minor—Administration and Supervision
- CASS, CORINE ETHYL Major—Elementary Education Minor—Health Education
- CHAMPION, ARTHUR GARFIELD Major—Administration and Supervision Minor—Elementary Education
- CLAY, MATTHEW H. Major—Industrial Education Minor—Administration and Supervision
- CLAYBON, ESTHER GLORIA Major—Elementary Education Minor—Physical Education
- COLEMAN, FLORENCE WHITING Major—Elementary Education Minor—Home Economics Education
- COLSTON, LERA EARL Major—Elementary Education Minor—Health Education
- COOPER, ARDELIA JONES Major—Elementary Education Minor—Health Education
- COSS, CHRISTINE WITCHER Major—Elementary Education Minor—Health Education
- COSS, LURA B. Major—Administration and Supervision Minor—Elementary Education
- CROUCH, IVORY D'LOIS Major—Elementary Education Minor—Health Education
- CURVEY, ELBERT RANDOLPH Major—Industrial Education Minor—Administration and Supervision
- DAVENPORT, DELORES COOPER Major—Elementary Education Minor—Health Education
- DAVIS, MATT BERKE Major—Administration and Supervision Minor—Elementary Education
- DE SHA, CONSUELLA SCOTT Major—Home Economics Education Minor—Elementary Education
- DOUGLAS, BURNICE P. Major—Administration and Supervision Minor—Elementary Education
- EDMERSON, LEE ROY Major—Administration and Supervision Minor—Elementary Education
- EDWARDS, CONSTANCE L. DAVIS Major—Administration and Supervision Minor—Elementary Education
- ELLIS, AZALIA WILLIAMS JACKSON Major—Administration and Supervision Minor—Health Education
- FAINE, LEVARN LEROY Major—Administration and Supervision Minor—Agricultural Education
- FAINE, NINA WARREN Major—Elementary Education Minor—Health Education
- FARRIS, HENRY LEYCESTER Major—Administration and Supervision Minor—Health Education
- FREEMAN, BETONIO Major—Administration and Supervision Minor—Elementary Education
- GRANGER, ALZINGER BARKER Major—Elementary Education Minor—Health Education
- GREEN, LULA BELL ELLIS Major—Administration and Supervision Minor—Elementary Education
- HAMMONS, LAWRENCE CHRISTY Major—Administration and Supervision Minor—Elementary Education
- HARPER, LILLIAN MAUDE Major—Home Economics Education Minor—Elementary Education
- HARRIS, ARTENA HORNSBY Major—Elementary Education Minor—Administration and Supervision
- HARRIS, BERNICE LUPEZ JACKSON Major—Elementary Education Minor—Administration and Supervision
- HARRIS, ETHEL SHERMAN Major—Elementary Education Minor—Administration and Supervision

HATCHER, RUBY O. GRIMES	Major—Elementary Education	Minor—Administration and Supervision
HAYS, GLADYS PRICE	Major—Elementary Education	Minor—Administration and Supervision
HENDLY, VIRGIL CLYDE	Major—Administration and Supervision	Minor—Physical Education
HENRY, ARNETT ALEXANDER	Major—Administration and Supervision	Minor—Agricultural Education
HICKS, WILMER KINZIE	Major—Administration and Supervision	Minor—Elementary Education
HILLIARD, NELLIE ELIZABETH	Major—Administration and Supervision	Minor—Elementary Education
HINTON, PAUL DENTON	Major—Administration and Supervision	Minor—Agricultural Education
HODGE, ADOLPHUS	Major—Administration and Supervision	Minor—Elementary Education
HODGE, ERIE MAGNOLIA JONES	Major—Home Economics Education	Minor—Administration and Supervision
HODGE, LOVANNA ESTELL	Major—Elementary Education	Minor—Health Education
HUNTER, BENJAMIN FRANKLIN	Major—Administration and Supervision	Minor—Elementary Education
INGRAM, DOROTHY MAE	Major—Administration and Supervision	Minor—Elementary Education
JACKSON, ELIZABETH SANDERS	Major—Elementary Education	Minor—Health Education
JOHNS, CLARENCE ALBERT	Major—Elementary Education	Minor—Administration and Supervision
JOHNS, THEODORE	Major—Administration and Supervision	Minor—Elementary Education
JOHNSON, BOBBIE LEE	Major—Elementary Education	Minor—Health Education
JONES, ESTHER THELMA	Major—Education	Minor—Mathematics
JONES, MABLE BOONE	Major—Elementary Education	Minor—Health Education
JONES, TOM WILLIE	Major—Administration and Supervision	Minor—Elementary Education
KEMP, EFFIE SANDERS	Major—Elementary Education	Minor—Health Education
KEMPLE, THOMAS LEVON	Major—Administration and Supervision	Minor—Elementary Education
KING, LAWRENCE EVERETT	Minor—Administration and Supervision	Minor—Biology
LEE, MARIE HOLTZCLAW	Major—Elementary Education	Minor—Health Education
McALLISTER, THERESA BRIGHAM	Major—Elementary Education	Minor—Administration and Supervision
McGEE, LEO LUCIUS	Major—Administration and Supervision	Minor—Elementary Education
McGLASTON, HAROLD IRVIN	Major—Administration and Supervision	Minor—Elementary Education
McLEMORE, NAOMI CHRISTINE	Major—Elementary Education	Minor—Health Education
McNEIL, QUEEN ISABELLA D.	Major—Elementary Education	Minor—Administration and Supervision
MARSHALL, ELIZA NOWLIN	Major—Elementary Education	Minor—Administration and Supervision
MARTIN, KATIE WARD	Major—Administration and Supervision	Minor—Elementary Education
MERCER, ETHEL MAE SANDERS	Major—Elementary Education	Minor—Administration and Supervision
MITCHELL, OLLIE ZEMBY	Major—Administration and Supervisor	Minor—Elementary Education
MOODY, MARTHA ALEXANDER	Major—Elementary Education	Minor—Health Education
MOORE, HENRY LEE	Major—Administration and Supervision	Minor—Agricultural Economics
MOORE, MAURICE MARION	Major—Elementary Education	Minor—Administration and Supervision
MOSLEY, CHRISTINE ARCHIE	Major—Elementary Education	Minor—Administration and Supervision
NEWSOME, STATHER WILLIAMS	Major—Elementary Education	Minor—Health Education

- NORWOOD, ALVIN FLOYD Major—Administration and Supervision Minor—Elementary Education
- ORR, LEO EARSEL Major—Administration and Supervision Minor—Elementary Education
- PAGE, GEORGE WASHINGTON Major—Administration and Supervision Minor—Elementary Education
- PALFREY, LOIS EVELYN Major—Administration and Supervision Minor—Home Economics Education
- PEPPERS, JAMES EMERSON Major—Administration and Supervision Minor—Elementary Education
- PHILLIPS, JESSIE LEE Major—Elementary Education Minor—Health Education
- PHILLIPS, MISSOURI VERESA Major—Home Economics Education Minor—Education
- PINCHBACK, MARY ELIZABETH Major—Elementary Education Minor—Health Education
- PRUITT, EVIE STARR Major—Elementary Education Minor—Health Education
- RAVARRE, LILLIAN THOMAS Major—Administration and Supervision Minor—Health Education
- REED, ALONZO LEE, JR. Major—Administration and Supervision Minor—Health Education
- REID, MARIE COLLINS Major—Home Economics Education Minor—Education
- RICHARDSON, ALONZO Major—Administration and Supervision Minor—Elementary Education
- ROBERSON, VICTORIA STARR Major—Elementary Education Minor—Health Education
- ROBINSON, AUSTRALIA SCALES Major—Elementary Education Minor—Health Education
- ROBINSON, THELMA CATHERINE Major—Elementary Education Minor—Administration and Supervision
- ROGERS, MAUDE COOPER Major—Elementary Education Minor—Health Education
- RUSSAW, ANNIE BELLE Major—Elementary Education Minor—Administration and Supervision
- RUTHERFORD, THOMAS CHARLES Major—Administration and Supervision Minor—Elementary Education
- RUTLEDGE, IRVING WALTER Major—Administration and Supervision Minor—Elementary Education
- SADLER, ETHEL WATKINS Major—Administration and Supervision Minor—Health Education
- SAMPSON, PERRY Major—Administration and Supervision Minor—Elementary Education
- SAMPSON, SYLVESTER ARTHUR Major—Administration and Supervision Minor—Agricultural Education
- SAMUEL, RUBY L. WHITING Major—Elementary Education Minor—Administration and Supervision
- SEIDEL, WILLIE MAE Major—Home Economics Education Minor—Elementary Education
- SHOTWELL, HATTIE EDITH Major—Administration and Supervision Minor—Home Economics Education
- SMITH, DORRIS EVELYN Major—Elementary Education Minor—Health Education
- SMITH, HATTIE JOHNSON Major—Elementary Education Minor—Health Education
- SMITH, THELMA OPHELIA Major—Elementary Education Minor—Health Education
- SMITH, WILLIE MAE INGLEMAN Major—Elementary Education Minor—Administration and Supervision
- STAFFORD, GEORGE HOWARD Major—Administration and Supervision Minor—Agricultural Economics
- STAFFORD, INEZ TERRELL Major—Home Economics Education Minor—Education
- STARKS, JAMES ANDREW Major—Administration and Supervision Minor—Elementary Education
- STARR, CASSIE MAE MOSS Major—Elementary Education Minor—Administration and Supervision
- SWINDALL, ELMA LUCILLE Major—Elementary Education Minor—Administration and Supervision
- SWINDALL, SELMA LOUISE Major—Elementary Education Minor—Administration and Supervision
- TAYLOR, DOROTHY RACHEL MAYES Major—Home Economics Education Minor—Elementary Education
- TEAL, WINSTON W. Major—Administration and Supervision Minor—Elementary Education

- TENNISON, MATTIE PRICE Major—Elementary Education Minor—Administration and Supervision
- THOMAS, JOHN HENRY Major—Industrial Education Minor—Health Education
- TURNER, JESSE LOUISE Major—Elementary Education Minor—Health Education
- WALKER, LAWRENCE LaCOUR Major—Elementary Education Minor—Administration and Supervision
- WEDGEWORTH, RUBY MAE Major—Administration and Supervision Minor—Elementary Education
- WEBB, MILDRED LUCILLE Major—Administration and Supervision Minor—Home Economics Education
- WHITAKER, CLAUDE FRANKLIN Major—Administration and Supervision Minor—Elementary Education
- WHITE, GOLDIE MAE Major—Administration and Supervision Minor—Elementary Education
- WHITE, JAMES, JR. Major—Administration and Supervision Minor—Physical Education
- WHITTEN, WILLIE MITCHELL Major—Elementary Education Minor—Health Education
- WILLIAMS, MILLIE OLA G. Major—Elementary Education Minor—Administration and Supervision
- WILSON, WILMA FRANCES Major—Elementary Education Minor—Administration and Supervision
- WIMBISH, OSCAR LEON Major—Elementary Education Minor—Administration and Supervision
- WOODS, THEOLA PLEASANTS Major—Elementary Education Minor—Health Education
- YANCEY, CARRIE MILLER Major—Elementary Education Minor—Physical Education

MASTER OF SCIENCE

- ALLEN, CARNIE EDWARD Major—Industrial Education Minor—Administration and Supervision
 Thesis: An Industrial Education Program for Sam Houston Elementary and Secondary School
- ALLEN, JOHNNY NEWELL Major—Physical Education Minor—Health Education
 Thesis: A Comparative Study of the Coach's Load in the Tri-State Area with that of the Teacher's as Prescribed by the Texas Department of Education
- BONEY, DAVID WRIGHT Major—Agricultural Education Minor—Administration and Supervision
 Thesis: A Study of Livestock Practices Followed by Fifty Negro Farmers in Midland County, Texas
- COLEMAN, ROOSEVELT Major—Agricultural Education Minor—Education
 Thesis: A Follow-Up Study of the Status of 4-H Club Farmers From 1941 to 1951 in Newton County, Texas
- COLLIER, EARL DONALD Major—Administration and Supervision Minor—Elementary Education
 Thesis: A Suggested Approach to a Proposed Program for Teaching General Science in Booker T. Washington High School, Conroe, Texas
- COSS, WILLIAM ROSCOE Major—Agricultural Education Minor—Elementary Education
 Thesis: Farm Tenancy in Rusk County, Texas
- COTTON, ALFRIA BEATRICE Major—Home Economics Education Minor—Education
 Thesis: Analysis of Guidance Needs of Girls as a Basis for the Preparation of Guidance Handbook for the Homemaking Teacher
- DAILEY, LULA DEMBY Major—Elementary Education Minor—Health Education
 Thesis: Historical Development of the Wheeler Spring Community Center School, Crockett, Texas
- ESCOE, EDWARD ERNEST Major—Industrial Education Minor—Administration and Supervision
 Thesis: Plastics in Industrial Arts
- FORTE, LOBERTA HOLLYCE PRICE WRIGHT Major—Administration and Supervision Minor—Elementary Education
- FRANCIS, LUTHER VERNON Major—Industrial Education Minor—Administration and Supervision
 Thesis: Dual Organization of the General Shop with Related Subjects
- HARDEN, NATHANIEL COURTENAY Major—Administration and Supervision Minor—Elementary Education
 Thesis: The Negro Principal's Perception of His Problems in the Public School of Texas

- HUMPHREY, VIVIAN RUCKETT Major—Administration and Supervision Minor—Elementary Education
 Thesis: A Study of Administrative Practices that Have Influenced State of Negro Schools in Coleman County, Texas From Their Beginning to the Present
- KING, HAROLD RAY Major—Administration and Supervision Minor—Mathematics
 Thesis: Community Perceptions of the Administrative Role of Negro Principals in Texas
- LEE, ROGER WORDEN Major—Chemistry Minor—Education
 Thesis: The Use of Tin Vanadate in the Catalytic Oxidation of Lipidine and Taluene in the Vapor Phase
- McDANIEL, ROBERT TENNESSEE Major—Mathematics Minor—Administration and Supervision
 Thesis: Fundamental Concepts and Basic Principles in the Teaching of Junior High School Algebra
- MARTIN, GROVER WESTMORELAND Major—Physical Education Minor—Administration and Supervision
 Thesis: An Analysis of the City Recreation Program of Houston, Texas
- MILLER, PANSY JONES Major—Physical Education Minor—Health Education
 Thesis: The Health Attitudes of Twenty-Five Prairie View A. & M. College Graduate Students in Health Education
- MOSELY, ODESSA RUSSELL Major—Elementary Education Minor—Health Education
 Thesis: An Educational Program for the Auditory and Speech Defective Children in Peabody Elementary School, Hillsboro, Texas
- NEWSOME, HARDING Major—Ornamental Horticulture Minor—Administration and Supervision
 Thesis: Proposed Landscape Plans for Two High School and a Union School in Texas
- OLIPHANT, MARY LUCILLE Major—Physical Education Minor—Administration and Supervision
 Thesis: A Study of Current Practices and Attitudes of Athletic Coaches in Regard to Interscholastic Athletics for Girls in Texas Negro Class "AA" and "AAA" High Schools
- PETERS, THELMA LEE Major—Physical Education Minor—Elementary Education
 Thesis: A Proposed Dance Program for the Dunbar Junior High School, Temple, Texas
- PIGFORD, MILLARD CLAY Major—Administration and Supervision Minor—Elementary Education
 Thesis: Analysis of the Characteristics, Training, and In-Service Status of 130 Negro School Principals Who Graduated From Prairie View Agricultural and Mechanical College
- POLLARD, CLIFFORD Major—Chemistry Minor—Biology
 Thesis: The Catalytic Liquid-Phase Oxidation of 4-Methyl Quinoline to Quinoline 1 Carboxylic Acid
- POWELL, GENTRY LEE Major—Agricultural Education Minor—Administration and Supervision
 Thesis: A Study of the Methods Financing Chapters of NFA in Area Three
- RIGSBY, ALEXANDER BERNARD Major—Agricultural Education Minor—Administration and Supervision
 Thesis: An Adequate Apprenticeship Program for Prospective Teachers of Vocational Agriculture
- RUTLEDGE, HELEN EMANUEL Major—Home Economics Minor—Administration and Supervision
 Thesis: Home Economics Graduates Employed in Other Fields in Texas
- SHAW, WILLIAM LLOYD Major—Administration and Supervision Minor—Elementary Education
 Thesis: A Status Study of Rural Schools for Negroes in McLennan County, Texas
- SMITH, ALEXANDER ISAAC Major—Agricultural Economics Minor—Administration and Supervision
 Thesis: The Effect of Land Use On the Standards of Living in Anderson County, Texas
- STUBBLEFIELD, RUBY SIMMONS Major—Elementary Education Minor—Administration and Supervision
 Thesis: Practices and Procedures for the Improvement of the Eight Grade Social Studies Program in the Arp Elementary School
- TOLES, WILLIE ROBERTSON Major—Administration and Supervision Minor—Biology
 Thesis: A Survey of the Teaching of Biology in Eighty-Five Accredited Negro High Schools in Texas
- WATSON, LEONIDAS Major—Agricultural Education Minor—Agricultural Economics
 Thesis: A Comparative Study of County Programs of Work in Cooperative Extension
- WHITESIDES, ALBERT GILBLRT Major—Physical Education Minor—Administration and Supervision
 Thesis: An Evaluation of College in America With Emphasis on the Major Rule Changes and Their Implications From 1940 to 1951 Inclusive"

WILLIAMS, LAFAYETTE BRYANT Major—Administration and Supervision Minor—Health Education

Thesis: An Analysis of Pupil Failure at I. M. Terrell High School, Fort Worth, Texas
YOUNG, JOE CEOFUS Major—Industrial Education Minor—Administration and Supervision

Thesis: Certificate Requirements of Industrial Art Teachers

WASHINGTON, ENNIS J. Major—Agricultural Education Minor—Administration and Supervision

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