

**Bulletin**  
**OF THE**  
**Texas Technological College**

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No. 2

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**Summer Session**

Including the Accelerated Plan

**1942**

**PLAN I. *June 3 to July 11; July 14 to August 21.***

**PLAN II. *June 3 to July 11; July 14 to September 10.***

**Lubbock, Texas**

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Lubbock, Texas, under the Act of August 24, 1912

## Summer Session Calendar

1942

### PLAN I

- June 3. Wednesday. Graduate and advanced student consultations with Deans and Heads of Departments.
- June 4. Thursday. Registration. Entrance examinations for persons who do not meet the regular entrance requirements.
- June 5. Friday. Classes begin, 8:00 A. M.
- June 8. Monday. Student registering today will register for a reduced load and then only in certain subjects.
- June 9. Tuesday. Last day a student may register for the first term. Late registration fee charged today.
- July 4. Saturday. Holiday.
- July 10-11. Friday-Saturday. Final examinations for first term.
- July 11. Saturday. First term closes.
- July 13. Monday. Registration for second term.
- July 14. Tuesday. Classes begin, 8:00 A. M.
- July 17. Friday. Last day students may register for second term. Late registration fee charged today.
- August 19-20. Wednesday-Thursday. Final examinations for second term.
- August 21. Friday. Summer Session Commencement and Graduation Exercises, 8:00 P. M.

### PLAN II

#### The Accelerated Plan

First Term—Same as calendar for First Term under Plan I.

#### Second Term

- July 13. Monday. Registration for second term.
- July 14. Tuesday. Classes begin, 8:00 A. M.
- July 17. Friday. Last day students may register for second term. Late registration fee charged today.
- September 9-10. Wednesday-Thursday. Final examinations.
- September 10. Thursday. Summer Session closes.

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Office, 215 Administration Building.

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Office, 211 Administration Building.

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Office, 202 Engineering Building.

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

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WILLIAM CURRY HOLDEN, *Dean and Director of Historical, Anthropological, and Social Science Research, and Curator of West Texas Museum.*

Office, 110 Administration Building.

MARY WOODWARD DOAK, *Dean of Women.*

Office, 107 Administration Building.

JAMES G. ALLEN, *Dean of Men.*

Office, 114 Administration Building.

WILLIAM THOMAS GASTON, *Business Manager, Secretary of Board of Directors.*

Office, 102 Administration Building.

WARREN PERRY CLEMENT, *Registrar.*

Office, 111 Administration Building.

ELIZABETH HOWARD WEST, *Librarian.*

Office, 209 Library Building.

HENRY A. FINCH, *Colonel, Corps of Engineers, United States Army; Professor of Military Science and Tactics.*

Office, Military Science Building.

JULIUS FLAKE McDONALD, *Director of Extension.*

Office, 315 Administration Building.

HARRY L. KENT, *Administrative Assistant.*

Office, 217 Administration Building.

FRED WINCHELL SPARKS, *Faculty Representative.*

Office, 104 Engineering Building.

## Officers of Instruction

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

**CLIFFORD B. JONES**, *President*, 1923, 1939.

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

**BYRON R. ABERNETHY**, *Instructor in Government*, 1941.

B. A., State Teachers College, Dickinson, North Dakota; M. A., North Dakota; Ph. D., Iowa.

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

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

**JAMES G. ALLEN**, *Professor of English and Dean of Men*, 1927, 1940.

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

**LILA ALLRED**, *Instructor in Clothing and Textiles*, 1939.

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

**HUGH ALLEN ANDERSON**, *Assistant Professor in Economics and Business Administration*, 1939.

B. A., M. A., Hardin-Simmons University.

**MARGARET BRASHEARS ATKINSON**, *Instructor in Engineering Drawing*, 1934.

B. S., Texas State College for Women.

**ARCHIE J. BAHM**, *Associate Professor of Philosophy and Sociology*, 1934, 1941.

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

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

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

**MARGARET BASKIN**, *Assistant Professor of Physical Education for Women*, 1935, 1941.

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

**NEVA DEEN BAVOULETT**, *Instructor in Foods and Nutrition*.

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

**JULIEN PAUL BLITZ**, *Professor and Head Department of Music*, 1934.

Laureate cum Laude, Royal Government Conservatory, Chent, Belgium; D. Mus. Austin College.

**BENJAMIN BOCK**, *Instructor in Government*, 1940.

B. S., College of the City of New York; M. A., George Washington University; Ph. D., Stanford.

**BERNICE DENA BORGMAN**, *Instructor in Child Development and Family Relations*, 1941.

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

**JOHNE BOWLES**, *Assistant Professor of Home Economics Education*, 1940.

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

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

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

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

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

**TRUMAN W. CAMP**, *Assistant Professor of English*, 1935, 1939.

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



- OLGA M. CARTER, *Instructor in English, 1939.*  
B. A., Dickinson College; M. A., Chicago.
- RAY L. CHAPPELLE, *Professor and Head Department of Agricultural Education, 1936, 1937.*  
B. S., Agricultural and Mechanical College of Texas; M. S., Texas Technological College.
- LLOYD CLINE CHRISTIANSON, *Assistant Professor of Mathematics, 1928, 1941.*  
B. A., Westminster; M. A., Missouri.
- HENRY PENNOCK CLAY, *Assistant Professor of Agricultural Engineering, 1935.*  
B. S., Michigan State College.
- LEWIS B. COOPER, *Associate Professor of Education and Psychology, 1938.*  
B. S., North Texas State Teachers College; M. A., Texas; Ph. D., Cincinnati.
- JOSEPH B. COWAN, *Assistant Professor of Journalism, 1938, 1941.*  
B. J., M. A., Missouri.
- MOZELLE EUGENIA CRADDOCK, *Manager and Dietitian of the Dormitories; Professor and Head Department of Institutional Management, 1934.*  
B. S., Texas; M. A., Chicago.
- WILLIAM MOORE CRAIG, *Professor of Chemistry, 1926.*  
B. A., M. A., Southwestern; M. A., Texas; Ph. D., Harvard.
- ALBERT BENJAMIN CUNNINGHAM, *Professor of English, 1929, 1940.*  
B. A. Muskingum; B. D., Drew; M. A., Ph. D., New York; Litt. D., Lebanon.
- JAMES WILLIAM DAVIS, *Assistant Professor of Government, 1938, 1941.*  
B. A., Agricultural and Mechanical College of Texas; M. A., Ph. D., Texas.
- CHARLES GARFIELD DECKER, *Assistant Professor of Civil Engineering, 1938, 1941.*  
B. S., M. S. in C. E., Michigan.
- JOE DENNIS, *Assistant Professor of Chemistry, 1938, 1941.*  
B. A., Austin College; M. A., Texas.
- MARY WOODWARD DOAK, *Professor of English, and Dean of Women, 1925.*  
B. A., Texas; M. A., Texas Technological College.
- BONNIE K. DYSART, *Associate Professor of Education and Psychology, 1927, 1928.*  
B. S., M. A., Texas.
- CHARLES DUDLEY EAVES, *Professor of History, 1925, 1940.*  
B. A., Texas; M. A., Chicago.
- LUTA P. EAVES, *Instructor in Economics and Business Administration.*  
B. B. A., M. B. A., Texas Technological College.
- JOHN ORVAL ELLSWORTH, *Professor and Head Department of Economics and Business Administration, 1928, 1937.*  
B. S., Utah State Agricultural College; M. S., Ph. D., Cornell.
- MABEL D. ERWIN, *Professor and Head Department of Clothing and Textiles, 1926.*  
B. S., Purdue; M. A., Columbia.
- ARTHUR WILSON EVANS, *Professor and Head Department of Education and Psychology, 1925.*  
B. A., Oxford College; M. A., Ph. D., Texas.
- VELMA FLOYD, *Instructor in Physical Education for Women, 1941.*  
B. A., Howard Payne; M. Ed., Texas.
- RAYMOND ERNEST GARLIN, *Professor of Education, 1927.*  
B. A., M. A., Ph. D., Texas.

EUNICE JOINER GATES, *Associate Professor of Spanish, 1925, 1937.*  
B. A., M. A., Southwestern; M. A., Michigan; Ph. D., Pennsylvania.

WILLIAM BRYAN GATES, *Professor and Head Department of English, 1925, 1941.*  
B. S., Millsaps; M. A., Vanderbilt; M. A., Michigan; Ph. D., Pennsylvania.

ENOCH FRANKLIN GEORGE, *Professor and Head Department of Physics, 1925.*  
B. S., Valparaiso University; B. A., M. A., West Virginia; Ph. D., Ohio State.

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

LUCILE AVO POWELL GILL, *Assistant Professor of English, 1926, 1937.*  
B. A., M. A., Texas.

WALDO S. GLOCK, *Associate Professor of Geology, 1938, 1941.*  
B. A., Iowa; Ph. D., Yale.

HARRY FREDERICK GODEKE, *Professor and Head Department of Mechanical Engineering, 1930.*  
B. S. in M. E., M. E., M. S., Illinois.

ROBERT CABANISS GOODWIN, *Professor and Head Department of Chemistry and Chemical Engineering, 1930, 1938.*  
B. A., Howard Payne; M. A., Texas; Ph. D., Harvard.

JAMES MARCUS GORDON, *Dean of Division of Arts and Sciences, Acting Head Department of Philosophy and Sociology, Director of the Summer Session, 1925, 1939.*  
B. A., Trinity; M. A., Chicago; LL. D., Trinity.

ALAN M. F. GUNN, *Associate Professor of English, 1939.*  
A. B., Huron College; M. A., Denver; Ph. D., Princeton.

T. EARLE HAMILTON, *Instructor in Spanish, 1940.*  
A. B., A. M., Southern Methodist University; Ph. D., Texas.

FRED G. HARBAUGH, *Professor of Animal Husbandry and Veterinarian, 1927, 1941.*  
B. S., D. V. M., Iowa State College.

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

LAURENCE G. HARMON, *Assistant Professor of Dairy Manufactures, 1936, 1941.*  
B. S., Kansas State College; M. S., Texas Technological College.

MARSHALL BENTON HARRISON, *Associate Professor of Agricultural Economics, Farm Management, and Rural Sociology, 1936, 1941.*  
B. S., New Mexico Agricultural and Mechanical College; M. S., Kansas State College.

ELIZABETH HAWLEY, *Assistant Professor of Applied Arts, 1934, 1937.*  
B. A., Oberlin; M. A., Columbia.

HAROLD M. HEFLEY, *Instructor in Biology, 1939.*  
B. S., M. S., Ph. D., Oklahoma.

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

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

CARL HENNINGER, *Associate Professor of German, 1926, 1929.*  
B. A., Indiana; M. A., Illinois.

DORIS HITTLE, *Assistant Professor of Home Management, 1940.*  
B. A., Iowa; Dietetic Diploma, Indiana; M. A., Columbia.

- WILLIAM CURRY HOLDEN**, *Professor and Head Department of History and Anthropology, 1929, 1938.*  
B. A., M. A., Ph. D., Texas.
- RUTH HORN**, *Assistant Professor of English, 1932, 1939.*  
B. A., M. A., Texas Technological College.
- CECIL HORNE**, *Professor and Head Department of Journalism, 1926, 1937.*  
B. A., Baylor; B. A., Yale.
- EDNA HOUGHTON**, *Instructor in Architecture and Allied Arts, 1932, 1933.*  
B. S. in A. E., Texas Technological College.
- ORVILLE BRACKETT HOWELL**, *Professor of Horticulture, 1935, 1937.*  
B. S., M. S., Michigan State College.
- DOYLE D. JACKSON**, *Professor of Education, 1934, 1941.*  
B. A., M. A., Texas; Ph. D., Arizona.
- WILLIAM MORLEY JENNINGS**, *Professor and Head of Department of Physical Education for Men, Director of Athletics, 1941.*  
B. A., Mississippi A. & M.
- ADA VIVIAN JOHNSON**, *Professor and Head Department of Home Economics Education, 1928, 1937.*  
B. S., Southwest Texas State Teachers College; M. A., Columbia.
- ONEIDA KENNEDY**, *Instructor in English, 1937.*  
B. A., Baylor; M. A., Columbia.
- OSCAR ARVLE KINCHEN**, *Professor of History, 1929, 1939.*  
B. A., M. A., Oklahoma; Ph. D., Iowa.
- HAROLD L. KIPP**, *Associate Professor of Mechanical Engineering, 1938.*  
B. S. in M. E., M. S. in M. E., Nebraska.
- FLORIAN ARTHUR KLEINSCHMIDT**, *Professor and Head Department of Architecture and Allied Arts, 1928.*  
B. S. in Arch., Minnesota; M. in Arch., Harvard; Diplome d'Architecture, Ecole des Beaux Arts Americaine, Fontainebleau, France.
- ELLEN KLEPPE**, *Instructor in Foods and Nutrition, 1936.*  
B. A., St. Olaf College; M. S., Iowa State College.
- MINA MARIE WOLF LAMB**, *Assistant Professor of Foods and Nutrition, 1940.*  
B. A., M. S., Texas Technological College.
- MILTON FREDERIC LANDWER**, *Associate Professor of Zoology, 1927.*  
B. S., Northwestern; M. A., Nebraska; Ph. D., Michigan.
- JOHNNYE GILKERSON LANGFORD**, *Associate Professor and Head Department of Physical Education for Women, 1925, 1934.*  
B. B. A., Texas; M. A., Southern California.
- D. R. LARSON**, *Instructor in Government, 1941.*  
B. A., Augustana College; M. A., Texas.
- T. L. LEACH**, *Associate Professor of Agricultural Education and Itinerant Teacher Trainer, 1937, 1939.*  
B. S., M. S., Texas Technological College.
- BESSIE BEAKLEY LEAGUE**, *Associate Professor of Zoology, 1926, 1927.*  
B. A., M. A., Ph. D., Texas.
- ARTHUR HENRY LEIDIGH**, *Dean of Agriculture and Professor of Agronomy, 1925.*  
B. S., Kansas State College; M. S., Agricultural and Mechanical College of Texas.
- ROBERT IVAN LOCKARD**, *Assistant Professor of Architecture and Allied Arts, 1935.*  
B. S. in Arch., M. S. in Arch., Kansas State College.

- JOSEPHINE LOONEY**, *Assistant Professor of Clothing and Textiles*, 1933, 1940.  
B. S., Minnesota; M. A., Columbia.
- ELLA MAE LYLE**, *Assistant Professor of Home Economics Education*, 1941.  
B. S., Texas Technological College; M. A., Columbia.
- ELMER LEON McBRIDE**, *Professor and Head Department of Agricultural Economics, Farm Management, and Rural Sociology*, 1935, 1937..  
B. S., M. S., Oklahoma Agricultural and Mechanical College.
- JONNIE McCRERY**, *Professor and Head Department of Foods and Nutrition*, 1925.  
B. S., M. A., Columbia.
- SETH SHEPARD McKAY**, *Professor of History*, 1928, 1940.  
B. A., M. A., Texas; Ph. D., Pennsylvania.
- FITZHUGH LEE McREE**, *Associate Professor of Civil Engineering*, 1927, 1935.  
B. S. in C. E., M. S. in C. E., Texas.
- ERNEST L. MADER**, *Assistant Professor of Agronomy and Research Assistant*, 1939, 1941.  
B. S., Oklahoma Agricultural and Mechanical College.
- HULDA WILD MARSHALL**, *Assistant Professor of Chemistry*, 1925, 1937.  
B. A., Texas; M. A., Texas Technological College.
- LIDA B. MAY**, *Instructor in Mathematics*, 1938.  
B. A., Alabama; M. A., Texas.
- JAMES NEWTON MICHIE**, *Professor and Head Department of Mathematics*, 1925.  
B. S. in Engineering, Virginia; M. A., Michigan.
- RUFUS ARTHUR MILLS**, *Professor of English*, 1926, 1939.  
B. A., M. A., Texas.
- RAY C. MOWERY**, *Professor of Animal Husbandry*, 1926, 1935.  
B. S., Agricultural and Mechanical College of Texas; M. S., Iowa State College.
- JAMES HAROLD MURDOUGH**, *Professor and Head Department of Civil Engineering*, 1925, 1927.  
S. B. in C. E., Massachusetts Institute of Technology; M. S. E., Michigan.
- DONALD VAN DALE MURPHY**, *Associate Professor of English*, 1926, 1935.  
B. A., Tulsa; M. A., Columbia.
- JAMES BUTTRILL NEVINS**, *Instructor and Assistant Band Director*, 1941.  
B. S., Texas Technological College.
- WALKER LEONARD NICHOLS**, *Instructor in Physical Education for Men*, 1941.  
B. A., Texas Technological College.
- LEROY THOMPSON PATTON**, *Professor and Head Department of Geology and Petroleum Engineering*, 1925.  
B. A., Muskogum; B. S., Chicago; M. S., Ph. D., Iowa.
- MART G. PEDERSON**, *Associate Professor of Dairy Manufactures*, 1932, 1939.  
B. S., Texas Technological College; M. S., Kansas State College.
- HARDISON CECIL PENDER**, *Professor and Acting Head Department of Government*, 1926, 1938.  
B. A., North Texas State Teachers College; M. A., Baylor.
- ANNAH JO PENDLETON**, *Professor and Acting Head Department of Speech*, 1927, 1941.  
B. A. and Diploma in Oratory, Texas Christian University; Diploma School of Speech, Northwestern; M. A., Iowa.
- CONNER COLUMBUS PERRYMAN**, *Associate Professor of Engineering Drawing*, 1929, 1940.  
B. S., North Texas State Teachers College.

- ELLSWORTH HARVEY PLANK**, *Professor of Economics and Business Administration, 1933, 1934.*  
B. S., M. S., Oregon; Ph. D., Stanford.
- MARTYE POINDEXTER**, *Professor and Head Department of Applied Arts, 1935.*  
Ph. B., Chicago; M. A., Texas State College for Women.
- CHARLES BLAISE QUALIA**, *Professor and Head Department of Foreign Languages, 1925, 1937.*  
B. A., M. A., Ph. D., Texas.
- EDWARD LOOMAN REED**, *Professor of Botany, 1926, 1929.*  
B. A., Oklahoma Baptist College; M. S., Ph. D., Chicago.
- KENNETH MILLER RENNER**, *Professor and Head Department of Dairy Manufactures, 1927, 1931.*  
B. S., Iowa State College; M. S., Kansas State College.
- FRED D. RIGBY**, *Instructor in Mathematics, 1940.*  
B. A., Reed College; M. S., Ph. D., Iowa.
- TRENT CAMPBELL ROOT**, *Professor of Economics and Business Administration, 1926, 1937.*  
B. A., Baylor, M. B. A., Harvard.
- EDGAR T. RUFF**, *Instructor in French, 1941.*  
B. A., M. A., Northwestern University; Certificat apres examen, University of Paris; Ph. D., Texas.
- JOSEPH HAROLD RUSH**, *Instructor in Physics, 1941.*  
B. A., M. A., Texas.
- REGINALD RUSHING**, *Assistant Professor of Economics and Business Administration, 1939, 1940.*  
B. A., Southwestern; M. B. A., Texas.
- OSCAR T. RYAN**, *Assistant Professor of Agricultural Education and Teacher Trainer, 1936.*  
B. S., Sam Houston State Teachers College; M. S., Agricultural and Mechanical College of Texas.
- VALERIE SCHNEIDER**, *Associate Professor of Chemical Engineering, 1934.*  
B. S. in Ch. E., M. S. in Ch. E., Texas; Sc. D., Massachusetts Institute of Technology.
- CLARENCE CARL SCHMIDT**, *Associate Professor of Physics, 1927.*  
B. A., Cornell College; M. A., Ph. D., Illinois.
- JESSE Q. SEALEY**, *Assistant Professor of Bacteriology, 1928.*  
B. A., M. A., Texas.
- JAMES THOMAS SHAVER**, *Associate Professor of Education, 1927.*  
B. S., Sam Houston State Teachers College; M. A., Columbia.
- RAYMOND GILBERT SIDWELL**, *Associate Professor of Geology, 1928, 1939.*  
B. A., M. A., Ph. D., Iowa.
- WILLIAM MACKEY SLAGLE**, *Associate Professor of Chemistry, 1926, 1937.*  
B. A., Southwestern; M. A., Texas.
- GEORGE SMALLWOOD**, *Professor of English, 1925.*  
B. A., Southwestern; M. A., Southern Methodist University.
- ARLO I. SMITH**, *Instructor in Biology, 1940.*  
A. B., Hendrix College; M. S., Northwestern; Ph. D., Washington.
- WENZEL LOUIS STANGEL**, *Professor and Head Department of Animal Husbandry, 1925.*  
B. S., Agricultural and Mechanical College of Texas; M. S., Missouri.
- OSCAR A. ST. CLAIR**, *Professor and Head Department of Industrial Engineering and Engineering Drawing, 1934.*  
B. S. in E. E., Armour Institute of Technology.

- J. D. STRICKLAND**, *Assistant Professor of Animal Husbandry, 1939.*  
B. S., Texas Technological College; M. S., Agricultural and Mechanical College of Texas.
- ALAN LANG STROUT**, *Professor of English, 1928, 1937.*  
B. A., Dartmouth; M. A., Chicago; M. A., Wisconsin; Ph. D., Yale.
- HASKELL GRANT TAYLOR**, *Assistant Professor of Economics and Business Administration, 1937, 1941.*  
B. B. A., M. A., Texas Technological College.
- GUSSIE LEE TEAGUE**, *Assistant Professor of English, 1926, 1937.*  
B. A., Oklahoma; M. A., Colorado.
- ANN ALDEN TROTTER**, *Part-time Instructor in Music, 1939.*  
A. B., Central State Teachers College, Oklahoma; Horner Conservatory.
- AGNES ANN TRUE**, *Associate Professor of Education and Psychology, 1934, 1940.*  
B. A., M. A., Ph. D., Michigan.
- MAYME LUCINDA TWYFORD**, *Associate Professor of Foods and Nutrition, 1928.*  
B. S., West Virginia; M. A., Columbia.
- ERNEST WALLACE**, *Assistant Professor of History, 1936, 1941.*  
B. S., East Texas State Teachers College; M. A., Texas Technological College.
- JOHN NEAL WATSON**, *Assistant Professor of Speech, 1939, 1941.*  
B. S., North Texas State Teachers College; M. A., Southern California.
- MARGARET WATSON WEEKS**, *Dean of Home Economics and Professor of Nutrition, 1925.*  
B. S., M. S., Columbia.
- DEWEY O. WILEY**, *Professor of Music and Director of Band, 1934, 1941.*  
B. Mus., Simmons; Pupl of Carl Veneth, E. Clyde Whitlock, Jacques Gordon.
- RAMOND HENDRY WILLIAMS**, *Instructor in Architecture and Allied Arts, 1938, 1939.*  
B. S., Utah; M. S., Wisconsin.
- HORACE EUGENE WOODWARD**, *Instructor in Mathematics, 1937.*  
B. A., M. A., Texas Technological College.
- WARREN WATSON YOCUM**, *Associate Professor of Horticulture, 1937.*  
B. S., Northeast Missouri State Teachers College; M. A., Missouri; Ph. D., Nebraska.
- ARTHUR W. YOUNG**, *Professor and Head Department of Plant Industry, 1935, 1938.*  
B. S., M. S., Ph. D., Iowa State College.
- BLANCHE ZEMAN**, *Instructor in Economics and Business Administration.*  
B. A., Texas Technological College.

#### DIVISION OF MILITARY SCIENCE AND TACTICS

- HENRY A. FINCH**, *Colonel, Corps of Engineers, United States Army; Professor of Military Science and Tactics, 1941.*  
B. A., U. S. Military Academy; Engineer School, U. S. Army.
- FRANK EDWARD HANGS**, *Captain, Corps of Engineers, United States Army; Assistant Professor of Military Science and Tactics, 1941.*  
B. S., M. S., Illinois.
- HENRY DALE WESTON**, *First Lieutenant, Corps of Engineers, United States Army; Assistant Professor of Military Science and Tactics, 1940.*  
B. S., Oklahoma Agricultural and Mechanical College.

CHARLIE REYNOLDS ANDERSON, *Staff Sergeant, United States Army; Assistant Instructor in Military Science and Tactics, Assistant Military Property Custodian, 1941.*

CLAUDE WILLIAM ALLEN, *Sergeant, United States Army; Assistant Instructor in Military Science and Tactics, 1941.*

FRANK M. FOSTER, *Sergeant, United States Army; Assistant Instructor in Military Science and Tactics, 1942.*

### INSTRUCTORS IN MUSIC

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

FLORA BRIGGS BLITZ, *Piano, Piano Accompaniment.*

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

BEULAH DUNN, *Violin, and Cello.*

B. Mus., Chicago Musical College.

ESTELLE GEORGE, *Piano, Piano Accompaniment, and Keyboard.*

B. Mus., Cincinnati Conservatory.

MARGARET HUFF, *Piano, Organ, Piano Accompaniment.*

B. Mus., American Conservatory of Music.

EMMA SLATER SCOGGIN, *Voice.*

B. Mus., Ottawa University.

MYRTLE DUNN SHORT, *Voice, Piano, Piano Accompaniment.*

B. Mus., Chicago Musical College.

### DIVISION OF GRADUATE STUDIES

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

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

### DIVISION OF EXTENSION

JULIUS FLAKE McDONALD, *Director of Extension, 1926.*

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

### OFFICE OF THE REGISTRAR

WARREN PERRY CLEMENT, *Registrar, 1926, 1933.*

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

FLORENCE EVELYN CLEWELL, *Assistant Registrar, 1929, 1933.*

B. A., Oklahoma.

### LIBRARY STAFF

ELIZABETH HOWARD WEST, *Librarian, 1925.*

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

EMMA LILLIAN MAIN, *Assistant Librarian and Cataloguer, 1926.*

B. A., North Texas State Teachers College.

LULU STINE, *Cataloguer and Document Librarian, 1930, 1941.*

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

VIOLET M. MATTSON BAIRD, *Reference Librarian, 1935.*  
B. A., M. A., Rice; B. S. in L. S., Louisiana.

LUELLA SYBIL RYSTROM, *Loan Librarian, 1937.*  
B. S. in Ed., M. A., Nebraska.

RUTH SPALDING, *Assistant Loan and Reference Librarian, 1938.*  
A. B., Mary Hardin-Baylor; B. S. in L. S., Illinois.

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

#### VISITING TEACHERS

W. B. IRVIN, *Lecturer in Education; Superintendent of Lubbock City Schools.*  
B. A., M. A., Simmons; Ed. D., Texas.

GEORGE W. KIBLER, *Visiting Teacher in Vocational Agriculture; Assistant Professor of Industrial Education, East Texas State Teachers College.*  
B. A., North Texas State Teachers College; M. A., Southern Methodist University.

WJSLETA NUSS, *Instructor in Spanish; Instructor in Foreign Languages, Amarillo College.*  
M. A., Wisconsin.

CLARA ELIZABETH PRATT, *Instructor in Foods and Nutrition; Home Demonstration Agent, Lubbock County, Lubbock, Texas.*  
B. S., Baylor.

#### SUMMER SCHOOL COMMITTEE

CLIFFORD B. JONES, *President, Ex-officio*

A. H. LEIDIGH

R. C. GOODWIN

O. V. ADAMS

A. W. EVANS

MARGARET W. WEEKS

W. P. CLEMENT

J. M. GORDON, *Chairman*



## SUMMER SESSION, 1942

### General Statement

The Summer Session of 1942 is definitely geared for war—and peace. Along with other colleges, Texas Technological College is mindful of its opportunity and responsibility to contribute to the war emergency and to the period of reconstruction which is to follow the war. Toward this end, the summer school is offering certain courses which have a direct bearing on the present emergency and others which stress democracy and are pointed toward the peace which is to follow. An attempt will be made to relate all regular offerings in some way to the emergency now facing the country.

In addition to its course offerings, the College possesses other features which lend attractiveness to its summer school. Many members of the regular faculty of over 200 will be on hand for the summer. Visiting staff members, competent in their respective fields, will supplement the regular staff. The entire College plant, consisting of more than twenty-five buildings, will be at the disposal of the summer school students. Library, laboratory, shop, and other equipment will be available for use. The two new dormitories will be open to students. An added feature of the summer school is its accelerated plan, whereby a student may complete his four-year curriculum in three years or less.

The city of Lubbock itself has many attractive features. It has excellent churches, hotels, shopping centers, and residences. It boasts of pure water and natural gas, and is known far and wide as the cleanest city in Texas, having consistently won the trophy awarded by the National Clean-Up and Paint-Up Bureau of Washington, D. C. The relatively high altitude, abundant sunshine, freedom from dampness, and almost total absence of insect pests and mosquitoes make for genuinely healthful living conditions.

The city is within easy driving distance of the mountain areas of New Mexico and the world-famous Carlsbad Caverns; beautiful Mackenzie State Park is just outside the city limits; the army air base is ten miles west. With an elevation of 3215 feet and with its cool invigorating nights, Lubbock is an ideal place to combine summer study and recreation.

The course offerings, recreational opportunities, and special summer features arranged for this year are presented in greater detail in the following pages. Attention is also called to the special educational opportunities, extending beyond the limits of the curricula and the classrooms, designed to contribute to the social life and satisfaction of the summer students.

### Organization of the Summer Session

The Summer Session of 1942 offers a double program as follows:

Plan I. June 3 to July 11; July 14 to August 21.

Plan II. June 3 to July 11; July 14 to September 10.

Plan I is the regular twelve-week session just as it has been for the past fifteen years, for juniors, seniors, graduates, and for sophomores and freshmen who prefer this plan. Plan II enables high school seniors graduating this spring to enter college and be graduated in three years (June, 1945) in any one of the four divisions—Agriculture, Engineering, Home Economics, and Arts and Sciences. A full freshman program is being set up in all four divisions. Advanced and graduate students will also find a full offering. Graduation will be held at the close of the second six weeks term, namely, Friday, August 21.

High school students are normally graduated at about 17 years of age. The selective service draft age is now set at 20. The accelerated plan (number II above) will enable high school graduates to enter College June 3, 1942, attend three summer sessions and three long sessions, and be graduated June, 1945, by the time they are called to service.

Intelligence and training are at a premium in the modern army; and the possession of a college degree will add to the soldier's opportunities to serve his country and to secure advancement. College-trained women, too, are needed to help win the war. When the war is over, college men and women will be needed more than at any peace-time period in our history.

The work of the Summer Session is outlined on the semester basis; that is to say, classes meet approximately one hour and thirty minutes each day so that a regular three-semester-hour course can be completed in a six-weeks term. For the nine-weeks term, a three-semester-hour course meets for one hour each day. The normal amount of work for the six-weeks term is two three-semester-hour courses; for the nine-weeks term, three three-semester-hour courses. Some courses are organized on a two-semester-hour basis, in which case the class meeting time is correspondingly shortened.

In certain of the laboratory sciences, field courses, and a few other subjects, the work is so arranged that a student may complete the full year's work in six weeks. The schedule of classes shows where this is possible.

## Undergraduate Degrees

The regular undergraduate degrees are given; namely, Bachelor of Arts, Bachelor of Business Administration, Bachelor of Science in Agriculture, Bachelor of Science in the fields of Engineering named, and the various degrees in Home Economics; Bachelor of Architecture, Bachelor of Commercial Art, Bachelor of Science in various sciences, and Bachelor of Science in Education. While all these degrees are standard, the number of semester hours required varies according to the curriculum followed. In some of the degrees foreign language is required; whereas in others, a greater amount of science or other technical subjects is required.

## Graduate Degrees

Degrees: The degrees, Master of Arts, Master of Business Administration, Master of Education, and Master of Science are awarded by Texas Technological College upon the completion of the various requirements for these degrees as set forth below:

The Master of Arts Degree may be secured with majors in chemistry, economics, education and psychology, English, foreign language (Spanish), geology, government, history and anthropology, mathematics, and physics. The Master of Science Degree may be obtained with majors in any of the departments of the Division of Agriculture; in the Departments of Foods and Nutrition and Home Economics Education of the Division of Home Economics; in the Departments of Chemistry, Geology, Mathematics, and Physics in the Division of Arts and Sciences; and in the Department of Chemical Engineering in the Division of Engineering. Minor work may be completed in these or in all other departments of the College.

For more definite regulations and requirements concerning all phases of graduate work, those interested are referred to the Graduate Bulletin or to the regular catalogue of Texas Technological College.

## The Library

The Library, housed in the new Library building completed in 1938, is available to summer school students. The Library is well supplied with subject matter indexes; magazines of current and special interest; dictionary-

ies, English and foreign; special encyclopedias; atlases, treatises on subjects taught in the College, and other basic reference materials. A microfilm in the reference reading room is available for use by faculty members and students. At present, the Library contains approximately 77,000 catalogued volumes.

The Library will be open during the Summer Session from 7:30 a.m. to 10 p.m. on Mondays through Fridays; from 7:30 a.m. to 5:00 p.m. on Saturdays.

## The College Bookstore

The College Bookstore, located on the campus, is owned and operated by the College. The Bookstore carries in stock all required textbooks, books for extension courses, all supplies and equipment needed in any of the specialized courses and an assortment of stationery and athletic supplies. At the close of the summer term the Bookstore will purchase from students any books which are to be used in the College the following year.

## The Dormitories

The two new and well-equipped College dormitories will be open to summer school students and teachers. These dormitories, located on the campus, each with a capacity of 320 persons, represent a cost of approximately \$325,000 each.

Students and staff members are urged to avail themselves of the advantages offered by the dormitories. In this connection the desirability of living in the dormitories should be pointed out. Being located on the campus, they offer a definite convenience in reaching the classroom. Rooms in the dormitories will be found cooler than most rooms out in town. The dormitories afford desirable social features. Cold drinking water is provided. A cafeteria breakfast for a two-hour period will be arranged, thus obviating the necessity for students to be available at a certain time to secure breakfast. The new women's dormitory will be open to families with children. An arrangement will be made by means of which children whose parents are in class will be taken care of by a student director. A fee will be charged for this service. The girls attending the band school will live in the dormitory and will be under the direction of a graduate student in the band school. The dormitories will be open until 12:00 at night. Arrangements for later permissions may be arranged through the social director. A reasonable flexibility in dormitory regulations will be observed in order that living in the dormitory may be as free and pleasant as possible.

## Summer Session in the Local City Schools

Fathers and mothers attending the Summer Session of the College may be interested to know that their children will have access to the summer school conducted by the Lubbock City Schools. Work will be offered in certain high school subjects. Those interested should address Superintendent W. B. Irvin for full information regarding courses and tuition charges. The school is in session six days a week. The term opens Wednesday, June 3, and closes Thursday, July 18.

## Recreation

Recreation activities this summer will follow somewhat the program of the last several summers. Provision has been made on the campus for an outdoor recreational center, the "Green" immediately south of the Administration Building. A varied program of entertainment features will be presented three evenings each week. Admission to these recreational programs will be limited to holders of recreation tickets. The program for the summer will include concerts and popular lectures, both from the College staff and from outside talent. Motion pictures will be shown at regular intervals, along with news-reels and short subjects of various types.

It is planned that holders of recreation tickets will have subscription to the summer College paper, special rates at golf courses, local theaters, and the city swimming pool.

A series of dances is sponsored by the College, in addition to the other entertainment features to be held on the campus.

## Admission

The Registrar of the College has charge of admission to any Division of the College. All communications regarding admission requirements should be addressed to him.

The admission requirements of the Summer Session are identical with those of the Long Session and are clearly set forth in the annual catalogue, which may be had on request.

Graduation from an accredited high school with a minimum of fifteen units of credit is required for admission. No credit may be obtained without graduation. Students entering college for the first time will be expected to present a complete transcript of their high school records before registration date.

## Admission to Division of Engineering

In addition to the mathematics requirements of the Division of Engineering, students entering that division will be required to present one unit of high school physics. The student with no physics but with one unit of chemistry will be admitted as a conditioned freshman student. High school graduates who can not meet the requirements of the Division of Engineering are urged to attend summer school at Texas Technological College, where deficiencies both in mathematics and science may be made up by taking certain designated courses. For information, students should communicate with the Registrar.

## Admission of Teachers without Transcripts

Public School teachers who are active in the service, and who do not plan to enroll for degree or certificate work in Texas Technological College, may be admitted to summer school without submission of a formal transcript of credits from other colleges. It is distinctly understood, however, that credits gained under this arrangement are not to be counted as credit toward a degree or certification until such transcript has been submitted. Students admitted to the summer school in this manner must present a complete transcript before being admitted to the residence work in the Long Session.

For admission by examination, admission of mature students on condition, admission with conditions, and admission to advanced studies, see statement in the Sixteenth Annual Catalogue.

## Expenses

Following are the charges per student for the twelve-week session. (Plan I) and also for the fifteen-week session (Plan II):

### Plan I

Tuition at \$15.00 each six-week term .....	\$30.00
(Three credit hours or less, minimum per term, \$10.00)	
The uniform breakage deposit (refundable) .....	3.00
Recreation fee (not refundable) \$1.00 each term .....	2.00
Medical service fee (not refundable) .....	2.00
<b>Total</b> .....	<b>\$37.00</b>

## Plan II

Tuition at \$15.00 for the six-week term and \$22.50 for the nine-week term .....	\$37.50
The uniform breakage deposit (refundable) .....	3.00
Recreational fee (not refundable), \$1.00 per term .....	2.00
Medical service fee (not refundable) .....	2.00
<b>Total .....</b>	<b>\$44.50</b>

Tuition for a normal load (four to six semester hours per six-week term) is \$15.00 for a six-week term and \$22.50 for the nine-week term; for one three-hour course, or its equivalent, the tuition is \$10. The breakage deposit and the medical service fee are the same for one or two terms, being paid only once. There are no laboratory charges, except for breakage. The deposit of \$3 is refundable upon withdrawal of the student, less any charges for loss of library books, for fines, breakage in the laboratories, or other legitimate charges against such a deposit.

## Exemption from Fees by Reason of War Service

Men and women, citizens of Texas, who served during the Spanish-American War or during the World War in the armed forces of the United States or as nurses, and who are honorably discharged therefrom, are exempt from all tuition fees. The discharge papers or service record of the student making application under this provision must be presented to the business office at the beginning of the Summer Session. All charges other than tuition fees are required of ex-service students.

## Student Housing Expense

### BOARD AND ROOM IN THE DORMITORIES

The cost of board and room in the College dormitories will be \$45.00 per term of six weeks and \$67.50 per term of nine weeks, payable monthly in advance. The cost for corner rooms will be \$46.50 for six weeks and \$69.75 for nine weeks. There are a few single rooms with bath which may be had at a cost of \$56.50 for the six weeks and \$84.75 for the nine weeks, including board. Occupants of the dormitories are expected to furnish linens, towels, and other personal articles needed. Students who do not find it convenient to bring their furnishings can rent them from the dormitory at a cost of \$1.50 per term of six weeks and \$2.25 per term of nine weeks. Couples can be accommodated in one of the dormitories at the same rate per person.

### COST FOR ROOM AND BOARD OUTSIDE THE DORMITORIES

Board and room outside the dormitories may also be had at reasonable cost, the cost depending somewhat on the taste of the individual and the arrangement he finds it possible to make.

All outside living quarters must be under the supervision of the College Committee on Student Housing. Approval of the student's residence is required before registration.

Casa Linda, the College cooperative house, is a stucco residence, two stories high, completely furnished except for bedding and linens, which the students are expected to furnish. The house cares for seventeen women students and is under the direction of a member of the faculty. The work is done by the students themselves. A deposit of \$18 a month is made. At the end of the month any excess of the cost is returned to the student. Application for residence in the cooperative house must be made through the office of the Dean of Women.

## Some General Regulations

In the general catalogue will be found regulations with reference to absence from classes, double cuts for absences preceding or following holidays, adding subjects, dropping subjects, and changing sections in courses. Likewise, a full discussion is given in the general catalogue with reference to grades, course numbers, grade point requirements for graduation, withdrawal from College, suspension from College, etc. It is not deemed necessary to list these regulations in the Summer Session Bulletin, but the student is urgently requested to secure a copy of the current Long Session Bulletin, where the regulations are given in full.

### STUDENTS ON PROBATION

A student suspended at the end of the second semester of the year, either for failure to remove his scholarship probation or for failing to pass a minimum of five semester hours, is ineligible to register in the College until the beginning of the second semester of the following Long Session; however, if such a student attends both terms of the subsequent Summer Session, which he is eligible to do upon agreement with his academic Dean, and if he passes in at least nine semester hours with a minimum of nine grade points he will have satisfied probation requirements and may enroll in the College the following September without a formal petition.

### HOUSING REGULATIONS

Attention is called to certain housing regulations for both men and women, a full discussion of which is found in the Sixteenth Annual Catalogue of Texas Technological College.

### MEDICAL SERVICE

Medical service for students of the College will be given by the Lubbock General Hospital during the Summer Session, the cost for which will be \$2 for either or both terms. For students who have not presented a health certificate at this College since September 1, 1941, a medical examination is necessary. The cost of this examination is included in the \$2 fee. The examination may be had at Lubbock General Hospital on June 3, 4, 5, and 6. Thereafter, examinations will be given at the College, Room 10 in the Library building.

In return for the \$2 fee per student, the College has the following agreement with the Lubbock General Hospital.

1. The student will be given a medical examination on his entrance into school. In case of abnormalities, the student will be given advice with a recommendation as to treatment. This examination is not a complete examination in the clinic of the hospital.
2. The student will be allowed free consultation with the school physician at any time such consultation is desired.
3. The College physician will make, without further charge, calls at the student's home, or at the hospital.
4. Each student will, in case of necessity, have free use of the hospital facilities at Lubbock General Hospital, including, board, lodging, and general nursing in the hospital, for a maximum of ten days in the Summer Session. These provisions apply only to the relief of acute conditions and do not include special nursing.
5. If an ambulance is required to carry the student to the hospital, it will be furnished with additional charge.
6. The student will receive without further cost any pathological or X-ray examination which may be needed for treatment underway in the hospital.



7. Any minor surgical operation which may be needed by the student such as for cuts, sprains, simple fractures, and vaccinations against small-pox, and emergency operations for acute cases of appendicitis will be performed for him without further cost.

8. The student will receive without further cost examinations and treatment by specialists for eye, ear, nose, and throat difficulties. This, however, does not include operation for the removal of tonsils or for chronic nasal diseases or for special operations on the eye or ear.

9. On all operative work not covered by the medical fee, students will receive a discount of 25 per cent from the regular charge.

10. First-aid service and consultation with the school physician can be had at stated hours each day at an office provided by the College on the campus. This does not interfere with the provision in paragraph 3 above.

11. The Lubbock General Hospital agrees to report promptly to the Dean of Women of the College every case of illness among the women of the College and to report to the Dean of Men every case of illness among the men of the College with an adequate statement of the nature of the illness.

12. The Lubbock General Hospital agrees that all case records of students remaining in College after the period covered by the agreement will be available to the College authorities on request.

13. The Lubbock General Hospital agree to furnish the College at the close of the Summer Session a full report of all services rendered to students under this agreement.

### STUDENT LOAD

The normal load for any student for a six-week term is six semester hours; for the nine-week term, nine semester hours. A student may not register for more than six semester hours in the first term (of six weeks), unless he has maintained during the preceding Long Session an average of at least B on a normal schedule of work. In no case will a student be permitted to register for, or secure credit in, more than fourteen semester hours in the two terms of six weeks each (Plan I), including any correspondence work. The one-hour required physical education courses and the one-hour credit in orientation may be taken in addition to the maximum load allowed. For the fifteen-week session (Plan II), the student may secure credit for approximately a full semester of work. Students who have not done work previously in Texas Technological College will regularly enroll for a maximum of six semester hours in a six-week term, or nine semester hours in the nine-week term, exclusive of one-hour physical education courses and one-hour credit in orientation. Graduate students are limited to six hours in either term of six weeks under Plan I, or twelve hours in total, and fifteen hours under Plan II. A College senior of superior ability and performance may, with the approval of his Dean, enroll for fifteen semester hours in the twelve-week session if this arrangement will enable him to be graduated at the close of the current Summer Session.

### SCHEDULE OF CLASSES

Three semester-hour classes meet one hour and twenty minutes net, e.g.,  
8:05-9:25  
9:35-10:55, etc.

Two semester-hour classes meet fifty minutes net, e.g.:  
8:05-8:55  
9:05-9:55, etc.

The schedule of classes is governed by Central War Time.

Laboratories are three hours for a complete laboratory period, including submission of data. A laboratory which meets once a week in the Long Session is held three times a week in the Summer Session. In some subjects,

which lend themselves to the practice, laboratory periods are consolidated or arranged to fit into the operating schedule in a different manner from that used during the Long Session.

### AUDITING CLASSES

A general provision has been made in the College whereby students may audit classes during the Long Session by paying a certain fee. However, this does not obtain in the Summer Session and permission will not be granted to audit classes during the summer school. Persons eligible to enroll for classes may have the privilege of enrolling regularly upon the payment of the regular summer school fee.

## Division of Arts and Sciences

### PHYSICAL EDUCATION OFFERINGS

Physical education courses will be given in the summer to meet the requirements for physical education teachers and for classroom teachers. Such work will be provided for both non-advanced and advanced students.

In compliance with the demands of the present emergency, the Department of Physical and Health Education is planning to offer during the first six-week term a special safety and first aid course—P. E. 3313. The main content of this course will be "The Red Cross Standard First Aid Course." It will be taught by an instructor who is authorized by the American Red Cross to give certificates to those who satisfactorily complete the course. The first-aid work will be supplemented by lectures from Doctors of Medicine on various related topics; also by discussions on the care and prevention of injuries common in athletics and physical education activities. Special emphasis will be given to the training, conditioning, and equipping of teams.

### MUSIC COURSES

All regular work in the Department of Music is covered in the uniform tuition charged all students of the College. Special fees are charged in music where special instructors are employed. For further information concerning special instructors and fees for special instruction, those interested should consult the general catalogue.

A course to be offered in the Summer Session for the first time is Music 431, covering the minor instruments in strings, reeds, and brasses. This course is included in the regular College tuition, and should not be confused with private, applied music lessons mentioned above. See band and music schedule.

### PIANO PRACTICE AND CHORUS

Practice studies with pianos are available on the campus and situated near the women's dormitories. Terms per semester are: \$4.00 for one hour per day, \$2.00 for each additional hour. In order to obtain applied music credit under special instructors, all voice and instrumental students are obligated to attend a seminar class held once a week. The student is not obligated to perform in this class, but he is obligated to attend.

### SUMMER SESSION BAND

During the first six weeks of the Summer Session, there will be offered again an intensive course for band teachers and those wishing to further their musical education. A distinguished corps of teachers of the various instruments of the band will be available for class instruction, and a great amount of musical material will be studied and played. Two or three bands will be available to accommodate students at almost any stage of advancement. College credit, usually six semester hours, is given to students of college classification.



For special bulletin on the Band School, communication should be addressed to D. O. Wiley, Director.

### SHORTAGE OF TEACHERS

On account of the war emergency, heavy withdrawals of teachers from the profession have taken place. Some school systems report having lost more than half of their teaching force during the current school year. Men are leaving their teaching work to enter the armed forces or other defense service. Women, too, are withdrawing from the profession to enter various types of defense activities. This shortage of trained teachers will become more acute as the emergency continues.

The only answer to the shortage of teachers is that others must train themselves to take the places of those who are leaving the profession. This country cannot afford to permit its public schools to stand idle. On the contrary, our schools must keep functioning in a somewhat normal manner. The generation now in public schools will, in a few years hence, be in charge of our government and social institutions, and it is imperative for that generation to be well trained. The problems of reconstruction to follow the war are staggering to the imagination; only an educated citizenship can hope to cope with them.

Texas Technological College, through its Summer Session, is making a deliberate attempt to provide the necessary courses and facilities whereby students may prepare themselves for teaching in the public schools. Students already in college will find ample provision for rounding out their program of work. Former teachers, as well as those who have never taught, will find it possible to pursue courses for renewing and securing teaching certificates.

### CERTIFICATE REQUIREMENTS

A full statement of the requirements for various classes of teachers' certificates will be found in the current general catalogue. For a more detailed and definite statement, reference is made to Bulletin No. 409 of the State Department of Education, **Standards and Activities of the Division of Supervision**. Courses in education will be offered to meet requirements for teaching certificates of the various grades and for the administrative certificate.

### OFFERINGS IN EDUCATION

Among the offerings in education are a number of courses which have never been offered before, or have never before been provided in the Summer Session, as follows:

#### Education 125—**Penmanship.**

Education 313—**Motion Picture Appreciation.** A study of motion pictures and their effect upon the emotional, social, and intellectual life of the school child. Standards of evaluation of actual motion pictures as presented on the screen will be set up.

Education 314—**Reading Clinic in Education.** A discussion of reading problems, including methods of diagnosis and the study, demonstration, and the use of apparatus, materials, and procedures in the teaching of reading.

Education 427—**Evaluative Criteria.** A course designed for administrators, supervisors, and high school teachers who contemplate a survey of their high schools through the application of "Evaluative Criteria." These criteria were set up by the National Committee on the Evaluation of Secondary Schools, to be used by all schools desiring recognition by the different regional accrediting agencies.

Education 4320—**Workshop Procedures in Improving Classroom Conditions.** A study of environmental and classroom conditions which affect pu-

oil growth and learning; an attempt to make the teacher conscious of all classroom conditions; and the improvement of teaching through observance, inspection, and screening of problems found in actual classrooms will make up the principal offerings of this course. Leading State and national authorities in different fields will help to present this course.

#### **Education 523—Activities Program for Teachers in the Elementary School.**

Among the regular courses having a peculiar bearing on account of conditions created by the present emergency and the recent developments in education, may be mentioned the following: Education 322—**High School Problems**; Education 326—**Educational and Vocational Guidance**; Education 3315—**Visual-Audio Aids in Education**; Education 423—**Public School Interpretation**; Education 428—**Education for Democracy and Defense**; Education 537—**Student Counseling**; Psychology 423—**Mental Hygiene**. (Education 3315 carries a fee ranging from \$5.00 to \$10.00 per student, to be collected by the secretary of the class as needed.)

The schedule includes also the basic courses usually offered. Students wishing to qualify for, or renew, teaching certificates will find ample provision.

#### **HOGG FOUNDATION SERVICE**

Dr. R. L. Sutherland of the Hogg Foundation, a mental hygiene foundation, and Dr. C. D. Dunham of the University of Minnesota and also of the Hogg Foundation, will be on hand to work in connection with Education 537—**Student Counseling**, Sociology 331—**Social Pathology**, and possibly with certain other courses or types of work. The value of contacts with such authorities cannot be over-emphasized.

#### **OFFERINGS IN HISTORY**

Several courses have been set up for the Summer Session designed to emphasize American civilization—its ideals, its defense, and the war resources, aims, and efforts of our chief allies. These courses, dealing with world conditions at the present time, have been arranged with the hope that a fuller appreciation of our government, its history, and its ideals may be gained. They are described in this bulletin under the specific departments and are: History 3315—**China and Japan**; History 3319—**Twentieth Century Britain**; History 4316-17—**United States Since the World War**; History 4319—**Latin American Diplomacy**.

#### **WORK IN GOVERNMENT**

The Department of Government is offering its regular courses, including introductory courses and courses which are prerequisite for teaching certificates.

No special courses are provided, but a definite effort will be made to adjust the materials of all courses to the conditions and problems of the present.

#### **COURSES IN SPANISH**

The more general teaching of Spanish in American schools, particularly in elementary schools, is one of the objectives of the Pan American program. It is believed that if more children of this country learn the Spanish language and study the literature, customs, and life of Latin American peoples, a definite contribution will be made toward friendliness with our neighbors to the south. This enlarged program of Spanish teaching calls for an adequate supply of properly trained teachers. Toward this end, two courses are offered this summer which should be of particular value to Spanish teachers at the present time; namely:

Spanish 435—**Teachers' Course in Methods of Teaching Spanish in the Grades.**

Spanish 4324—**Readings in Latin American Literature.**

### OFFERINGS IN SCIENCE

A great need of the present emergency is an adequate supply of scientifically trained persons. Every phase of the war service calls for men with training in science. In fact, this has been called a "scientists' war." Many phases of defense work also call for scientific training. Thoroughly mindful of the need for a scientifically trained personnel, the various departments of science—physics, chemistry, biology, and geology—are arranging courses which aim to help supply the emergency needs as to science. An effort will be made to adopt the regular offerings in science to the new demands.

### ECONOMICS AND BUSINESS ADMINISTRATION

Draftees with skill in shorthand and typewriting have found rapid promotion possible because most officers must have office work done. The armed forces may use ten per cent of their men in such work. To meet this need, **Shorthand** will be offered during the summer school for the first time. **Typewriting and Accounting**, as well as the usual courses, will be available.

### TEACHER PLACEMENT BUREAU AND SERVICES

A teacher placement bureau is operated for the benefit of teachers and prospective teachers, primarily Arts and Sciences graduates, who desire to secure teaching positions. All students or graduates from all division of the College may avail themselves of these services, for which a minimum fee is charged. Due to the shortage of teachers, all candidates for teaching positions should register with the bureau as early as possible.

Prospective employers and teachers should address inquiries to Dr. Doyle D. Jackson, Professor of Education, who is in general charge of the bureau.

Because of requirements governing the certification and employment of vocational home economics or vocational agriculture teachers, special placement services are available as follows:

### TEACHER PLACEMENT IN HOME ECONOMICS

Seniors, graduate students, and alumnae are requested to fill out information blanks and file them in the office of the Dean. From these blanks credentials are made up and are sent to prospective employers on their request. No charge, except for postage on the credentials sent out, is made for this service.

Prospective employers should address inquiries to Dean Margaret W. Weeks, Texas Technological College, Lubbock, Texas.

### TEACHER PLACEMENT IN AGRICULTURE

The Department of Agricultural Education at all times offers its services to superintendents, teachers, and prospective teachers for proper placement of vocational agriculture teachers. Credentials are made up in uniform form for sending to prospective employers. Charges are made for postage.

### DEMONSTRATION SCHOOL FOR ELEMENTARY CHILDREN

A school for elementary-school children, including grades two through five, will be conducted during the first term of the Summer Session. The program is informal, and the work strictly non-credit. Opportunity will be given for each child to work in the line of his individual needs, as far as possible, but the main objective is to offer worth-while experiences which will supplement rather than duplicate the work of the regular school program. Special emphasis will be placed on reading experiences.

Enrollment is limited to children who are capable of regular school work. Facilities and personnel will not permit the acceptance of children with speech and behavior difficulties.

A fee of five dollars, payable in advance, covers the cost of materials. Application should be made in advance, since the enrollment must be limited. For additional information, write the Department of Education, Texas Technological College, Lubbock, Texas.

## Division of Engineering

### GENERAL OFFERINGS

The relationship of the work of the Division of Engineering to the present emergency is clearly and definitely indicated. The army needs trained engineers as never before. Men trained in military science are needed. Industry, likewise, is in need of men trained in the various fields of engineering. For the men and women in industry, training in safety has special value.

In conformity with the present emergency and the accelerated program, the Division of Engineering is making it possible for a student to complete a whole semester's work in fifteen weeks of the Summer Session.

### SUGGESTION FOR ENGINEERING TRANSFER STUDENTS

Two courses are offered for the special benefit of student transfers from junior or other colleges, who are deficient in quantity or quality of work required by Texas Technological College. These two courses are M. E. 221, Mechanical Engineering Problems, and Engineering Drawing 11 (S), the latter a one-hour course for students who have had only sufficient drawing to transfer two hours.

### TRAFFIC SAFETY

The Department of Civil Engineering offers a three-credit-hour course **Traffic Safety Education**, the first term of the Summer Session. The course, designated as Civil Engineering 435, deals with the following topics: study of the characteristics of the driver, driver and pedestrian responsibilities, sound driving practices, society's responsibilities. Particular emphasis will be placed on methods of teaching traffic safety in the public schools. This course has been approved as a three-credit-hour course in education, to carry either graduate or undergraduate credit, and also as a three-hour advanced methods course.

### TEACHING OF SAFETY

Industrial Education 332, **Teaching of Safety**, is offered in the first term of summer school. This course deals with safety in the school, on the farm, and in less detail, in the home and in industry.

With the emphasis now being placed upon increased production in industry and the necessity for employment of large numbers of persons, new to the branch of industry in which they are employed, the subject of safety is of increasing importance. This increase has not been confined to the factory but has carried with it an increase in transportation, traffic on the streets, highways, etc., and the result is that all lines of activity are affected.

This course aims to assist the teacher in the public school to make the child "safety conscious" and to transmit some of this consciousness to the parent through the child.

### FIFTH ANNUAL SUMMER COURSE FOR PUBLIC HEALTH WORKERS AND SANITATION OFFICERS

During the summer of 1942, from June 3 to August 21, Texas Technological College, in cooperation with the Texas State Department of Health, will offer a course for public health workers and sanitation officers. This course is entitled **Community and Camp Sanitation**, and will consist of lectures, laboratory exercises, demonstrations, and field inspection work. The course will be similar to those conducted during the past four summers.

The course will be open to those who desire to enter sanitation work. Formal school work beyond high school is not necessary, and as this is a non-college credit short course, there are no College entrance requirements.

As the capacity is limited, it is suggested that reservations be made as soon as practicable. For further information, or to make reservations, write J. H. Murdough, Head, Department of Civil Engineering, Texas Technological College, Lubbock, Texas.

### TEXTILE ENGINEERING DEPARTMENT

The Annual Cotton Classing Short Course for ginners, farmers, warehousemen, and college students will be held from August 3 through August 14. On the staff will be a U. S. D. A. expert classer, who will conduct the cotton classing practice. Lectures on marketing, processing, ginning, and cotton classification will be given by departmental faculty members and by men of the West Texas area who are well known in the cotton trade. This is a non-credit course. Those qualified may take the examination for Licensed Classer. The fee will be ten dollars for the course.

An innovation planned for the summer is a short course for cotton mill productive executives. These plans are not yet complete.

Research on improvement in cotton manufacturing technique will proceed throughout the summer under the State Cotton Research Program.

## Division of Military Science and Tactics

### OFFERINGS IN MILITARY SCIENCE

During the 1942 Summer Session the Division of Military Science and Tactics is planning to offer the following R. O. T. C. courses:

- a. For incoming freshmen (eligible for enrollment in the Engineer Unit), a complete semester's work, distributed over a fifteen-weeks period one of six weeks and one of nine weeks). This work will cover the course that would normally be presented in the 1943 spring semester, thus leaving the students free to take the fall semester's work beginning next September with the freshman enrolling at that time.
- b. A complete semester's work for all incoming freshmen (including those not eligible for enrollment in the Engineer Unit), to be distributed over a fifteen-weeks period (one of six weeks and one of nine weeks). This work will cover the course that would normally be presented in the 1943 spring semester, thus leaving the student free to take the fall semester's work beginning next September with the freshmen enrolling at that time.
- c. A complete semester's work for members of the existing new unit (not eligible for enrollment in the Engineer's Unit), to be distributed over a fifteen-weeks period as indicated in a. and b. above.
- d. A complete semester's work for sophomores (i. e., men who have completed the freshman course), to be distributed over a fifteen-weeks period as indicated in a. and b. above. This group will be limited to those eligible for enrollment in the Engineer Unit.
- e. A complete semester's work for juniors (i. e., men who have completed the freshman and sophomore courses), to be distributed over a twelve-weeks period—but only provided the student can devote five hours per week to theoretical work and two hours per week to practical work. (This course will be limited to those eligible for enrollment in the Engineer Unit).

All of the courses outlined above are planned on the assumption that the enrollment in each case will be large enough to justify the effort involved.

## Division of Home Economics

The 1942 Summer Session provides a splendid opportunity for advanced work in the several fields of home economics. Attention will be given to adapting the courses to the special needs growing out of the war effort.

Graduate work will be offered during both six-week terms. A three-week course in food preservation will be offered during the second six weeks of summer school. Among the courses to be offered for the first time this summer are:

**A Refresher Course in Nutrition** (Nutrition 533) for graduates who wish to bring their nutrition knowledge up to date. This will be offered the first term.

With the cooperation of the Lubbock General Hospital a course in **Home Nursing** (H. Mgt. 323) will be offered during the second term.

A new laboratory course in **Food Selection and Nutrition for Elementary School Teachers** will be taught the first term (Nutrition 333). This is in line with the stress placed by the government on nutrition instruction.

Courses of interest to home economics workers will be offered also in the Division of Agriculture—vegetable gardening, farm poultry, and domestic dairying will be taught.

## Division of Agriculture

### GENERAL AIM AND OFFERINGS

The present emergency has created a shortage of trained men in all phases of agriculture. For this reason the country's agricultural program now needs a new supply of trained personnel to take the place of those who have entered and will enter the war work. In the final analysis the success of the war program will depend, to a very large extent, upon the success of our agricultural operations. It is to agriculture that the country will have to look for the raw materials needed to prosecute the war. An appeal is, therefore, made for men now enrolled in agriculture to remain in school during the summer and for new students to enter in order that agriculture may be assured of a steady flow of trained personnel.

Thoroughly conscious of the urgent need for trained men, the Division of Agriculture is providing for this summer a full program of work for incoming freshmen, making it possible for them to complete a full semester's work in the fifteen weeks of summer school. Likewise, ample provision will be made for sophomore, junior, senior, and graduate students. The work offered will include special provision for approved candidates who graduate in August.

It is the aim of the Division of Agriculture to offer all of its important courses on the average of once every three years in the Summer Session.

### SPECIAL COURSES FOR VOCATIONAL AGRICULTURE TEACHERS

Special courses for vocational agriculture teachers will be offered during the first six weeks of the Summer Session. Such work will include a course in **Farm Machinery Repairs**, which is a three-hour, three-week course offered twice during the first term.

## Division of Extension

The Texas Technological College, through its Division of Extension, offers, principally during the Long Session, approximately two hundred and fifty courses to those who cannot attend the regular scheduled classes. Correspondence and extension work offered by the Division of Extension has been approved by the Association of Texas Colleges. The Division is also a member of the National University Extension Association.



### EXTENSION CLASS CENTERS

Extension classes will be organized in convenient centers upon request of a sufficient number of students, depending upon the distance. Both graduate and undergraduate courses are available. The fee is \$5.00 per semester hour. Those interested in securing centers should communicate with the Director of Extension.

#### A NON-CREDIT COURSE IN PLANE GEOMETRY

For the benefit of students who have graduated from high school and have not had plane geometry, the College is offering through the Division of Extension a non-credit course in plane geometry the first six weeks of the summer school. It will be a double course, which means that the student's entire time will be given to the course. Satisfactory completion of the course will entitle the student to credit of one unit in plane geometry and will absolve the plane geometry requirement for admission to freshman classes. The cost will be \$15.00, the same as the tuition for regular summer school students.

Students interested should communicate at once with Mr. J. F. McDonald, Director of Extension, since the course cannot be given unless a sufficient number of people ask for it.

#### CORRESPONDENCE COURSES FOR MEN IN SERVICE

Through the cooperation of the Federal Government, correspondence courses are available for men in service at a reduction of one-third in cost. Due to its membership in the National University Extension Association, the Division has been asked to cooperate in this work.

#### AIR CORPS PREPARATORY COURSES BY CORRESPONDENCE

The Division of Extension is offering by correspondence several Air Corps preparatory courses, as follows:

1. **Aviation Cadet Preparatory Course.** A course giving college credit sufficient to exempt the applicant from required examinations for appointment as Aviation Cadet.
2. **Aviation Cadet Examination Refresher Course.** A course without credit, to assist the applicant in preparing for examinations for appointment as Aviation Cadet.
3. **Navigator-Bombardier Physics Course.** A course without credit, to assist the applicant for Navigator-Bombardier in preparing for the examination in physics.

Those interested in those courses should address the Director of Extension.

#### VISUAL AIDS: MOTION PICTURES

Two hundred and fifty sound and silent motion picture films are available for reasonable rental fees. The list of subjects and the rates charged will be sent on request. The list includes films suitable for use in elementary and high schools, as well as in junior and senior colleges.

Inquiries in regard to any of the extension services listed above, should be addressed to the Division of Extension, Texas Technological College, Lubbock, Texas.

#### FURTHER INFORMATION

The Summer Session Bulletin, necessarily abbreviated, cannot carry a full statement of the general regulations of the College. For all such regulations, specific requirements for graduation in the various curricula of each of the Divisions, and for general information, the student is referred to the annual catalogue. A copy of this bulletin and any further information with reference to the Summer Session may be had by addressing the Registrar.

## OUTLINE OF COURSES

The courses offered during the summer session are listed by Divisions, with the following information in consecutive order: Course number, description, semester hours credit, term offered, hour, days, room and instructor. The following symbols are used to designate the buildings in which the rooms are located: A—Agriculture; C—Chemistry; E—Engineering; H—Home Economics; P—Pavilion; T—Textile Engineering; L—Library. Rooms with no letter preceding—Administration.

The student is referred to the current General Catalogue in which will be found a full description of courses and a complete statement of prerequisites.

### Division of Agriculture

#### AGRICULTURAL ECONOMICS, FARM MANAGEMENT, AND RURAL SOCIOLOGY

##### First Term

##### Agricultural Economics

- |      |   |              |
|------|---|--------------|
| 235. | Fundamentals of Economics. 3 sem. hrs.<br>8-9:30 M-S A109 | Mr. McBride  |
| 331. | Statistical Problems. 3 sem. hrs.<br>8-9:30 M-S A119      | Mr. Harrison |
| 333. | Cooperation in Agriculture. 3 sem. hrs.<br>9:30-11 A119   | Mr. Harrison |

##### Rural Sociology

- |      |  |             |
|------|--|-------------|
| 432. | Rural Sociology. 3 sem. hrs.<br>9:30-11 M-S A109 | Mr. McBride |
|------|--|-------------|

##### Second Term, Six Weeks

- |       |  |             |
|-------|--|-------------|
| *322. | Marketing Agricultural Products. 2 sem. hrs.<br>8-9:30 TWTF A119 | Mr. McBride |
| *421. | Land Economics. 2 sem. hrs.<br>8-9:30 TWTF A119                  | Mr. McBride |

##### Second Term, Nine Weeks

- |      |   |             |
|------|---|-------------|
| 234. | Principles of Agricultural Marketing. 3 sem. hrs.<br>11-12 M-S A119 | Mr. McBride |
|------|---|-------------|

#### AGRICULTURAL EDUCATION

##### First Term

- |      |  |               |
|------|--|---------------|
| 321. | Organization and Administration of Vocational Education in Agriculture<br>2 sem. hrs.<br>11-12:30 MWFS A119  | Mr. Leach     |
| 423. | Problems. 2 sem. hrs.<br>Hours to be arranged  | Mr. Leach     |
| 511. | Problems. 1 sem. hr. (First three weeks)<br>1-2 M-S A119   | Mr. Chappelle |
| 524. | Advanced Methods, III. 2 sem. hrs.<br>Hours to be arranged   | Mr. Leach     |
| 531. | Investigations in the Field of Agricultural Education, 3 sem. hrs.<br>Hours to be arranged   | Mr. Chappelle |
| 535. | Thesis. 3 sem. hrs.<br>Hours to be arranged  | Mr. Chappelle |
| 536. | Thesis. 3 sem. hrs.<br>Hours to be arranged  | Mr. Chappelle |
| 525. | Advanced Methods, IV. Cr. 2. Prerequisite: Graduate standing.<br>Sec. 1. First three weeks 8-12 M-S Shop<br>Sec. 2. Second three weeks 8-12 M-S Shop | Mr. Kibler    |

\*One on demand



**ANIMAL HUSBANDRY****Animal Husbandry****First Term**

231. Breeds of Livestock. 3 sem. hrs.  
9:30-11 M-S P102 Mr. Stangel
424. Beef Cattle Production. 2 sem. hrs.  
11-12:30 TWTF P102 Mr. Stangel

**Second Term, Six Weeks**

322. Farm Meats. 2 sem. hrs. 18 lab. hrs.  
9:30-12:30 MWF; 1:30-6 TT Meats Lab. Mr. Harbaugh
331. Animal Nutrition and Principles of Feeding. 3 sem. hrs.  
8-9:30 MWFS P102; 1:30-6 P102. 6 lec. hrs.; 9 lab. hrs. Mr. Mowery
427. Swine Production. 2 sem. hrs.  
9:30-11 TWTF A107 Mr. Mowery
533. Thesis. 3 sem. hrs.  
Hours to be arranged Mr. Stangel
534. Thesis. 3 sem. hrs.  
Hours to be arranged Mr. Stangel

**Second Term, Nine Weeks**

121. Types and Market Classes of Cattle and Sheep. 2 sem. hrs.  
2 lec. hrs. 6 lab. hrs. 8-9 TT P102; 2-5 TT Arena Mr. Mowery

**Poultry Husbandry****First Term**

131. Farm Poultry. 3 sem. hrs. 6 lec. hrs.; 9 lab. hrs.  
8-9:30 TWTF A107; 1:30-6 TT A123 Mr. Strickland
421. Poultry and Turkey Production. 2 sem. hrs.  
9:30-11 TWTF A121 Mr. Strickland

**Veterinary Science****Second Term, Six Weeks**

333. General Veterinary Science. 3 sem. hrs.  
8-9:30 M-S A123 Mr. Harbaugh

**DAIRY MANUFACTURES****Dairy Manufactures****First Term**

131. Principles of Dairying. 3 sem. hrs. 6 lec. hrs.; 9 lab. hrs.  
11-12:30 MTWT A107; 1:30-6 MW D106 Mr. Pederson
323. Market Grades and Classification of Dairy Products. 2 sem. hrs. 3 lec. hrs.; 9 lab. hrs.  
8-9:30 TT A121; 1:30-6 TT D108 Mr. Pederson

**Second Term, Six Weeks**

433. Ice Cream Making. 3 sem. hrs. 6 lec. hrs.; 9 lab. hrs.  
11-12:30 TWTF A107; 1:30-6 TT D108 Mr. Renner

**Second Term, Nine Weeks**

222. The Dairy Industries. 2 sem. hrs.  
8-9 TWTF A109 Mr. Renner

**PLANT INDUSTRY****Plant Industry****First Term**

331. Plant Insects and Diseases and Their Control. 3 sem. hrs.  
9:30-11 M-S A107 Mr. Howell
535. Research Methods. 3 sem. hrs.  
Hours to be arranged Mr. Young

**Second Term, Six Weeks**

513. Graduate Seminar. 1 sem. hr.  
Hours to be arranged Mr. Young
531. Plant Industry Thesis. 3 sem. hrs.  
Hours to be arranged Mr. Young

### Agronomy

#### First Term

221. Soils. 2 sem. hrs.  
9:30-11 MTWTF A123 Mr. Young  
Mr. Young
422. Soil Management. 2 sem. hrs.  
8-9:30 TWTF A123 Mr. Young

#### Second Term, Six Weeks

332. Grain Crops. 3 sem. hrs. 6 lec. hrs.; 9 lab. hrs.  
9:30-11 TWTF A109; 2-5 MWF A112 Mr. Leidigh
434. Soil Erosion and Conservation. 3 sem. hrs. 6 lec. hrs.; 9 lab. hrs.  
Hours to be arranged Mr. Young

### Horticulture

#### First Term

231. Vegetable Gardening. 3 sem. hrs. 6 lec. hrs.; 9 lab. hrs.  
11-12:30 WThFS A109; 1:30-6 TT A107 Mr. Howell

#### Second Term, Six Weeks

341. Genetics. 4 sem. hrs. 9 lec. hrs.; 9 lab. hrs.  
11-12:30 M-S A109; 1:30-6 TT A109 Mr. Yocum

#### Second Term, Nine Weeks

131. Plant Propagation. 3 sem. hrs. 4 lec. hrs.; 6 lab. hrs.  
8-9 MWF A107; 2-5 MW A107 Mr. Yocum

### Agricultural Engineering

#### First Term

321. Farm Shop. 2 sem. hrs. 3 lec. hrs.; 9 lab. hrs.  
8-9:30 WF A121; 1:30-6 MW Shop Mr. Clay
322. Farm Shop. 2 sem. hrs. 3 lec. hrs.; 9 lab. hrs.  
11-12:30 TT A123; 1:30-6 FS Shop Mr. Clay
411. Soil Management Laboratory. 1 sem. hr. 9 lab. hrs.  
1:30-6 TT Shop Mr. Clay

## Division of Engineering

### ARCHITECTURE AND ALLIED ARTS

#### First Term

121. Freehand Drawing. 2 sem. hrs. 18 lab. hrs.  
Hours to be arranged E209 Miss Houghton
122. Freehand Drawing. 2 sem. hrs. 18 lab. hrs.  
Hours to be arranged E209 Miss Houghton
123. Elements of Composition, I. 2 sem. hrs. 18 lab. hrs.  
2-5:30 M-F E206 Miss Houghton
125. Shades and Shadows. 2 sem. hrs. 18 lab. hrs.  
Hours to be arranged E204 Mr. Kleinschmidt
141. Elements of Architecture. 4 sem. hrs. 3 lec. hrs.; 27 lab. hrs.  
8-9 MWF E208; Laboratory hrs. to be arranged E212 Mr. Kleinschmidt
2216. Pencil Rendering and Sketching. 2 sem. hrs. 18 lab. hrs. Prerequisite: Arch 122.  
Hours to be arranged E209 Miss Houghton
2217. Pen and Ink Rendering. 2 sem. hrs. 18 lab. hrs. Prerequisite: Arch. 2216.  
Hours to be arranged E209 Miss Houghton
231. Architectural Design, Grade I. 3 sem. hrs. 27 lab. hrs. Prerequisite: Arch. 141-2.  
Hours to be arranged E206 Mr. Kleinschmidt
235. Elements of Composition, II. 3 sem. hrs. 3 lec. hrs.; 18 lab. hrs. Prerequisite: Arch. 124.  
Hours to be arranged E209 Miss Houghton
239. Pottery. 3 sem. hrs. 3 lec. hrs.; 18 lab. hrs. Prerequisite: Arch. 123-4.  
Hours to be arranged E1-2 Mr. Williams
326. Constructive Anatomy. 2 sem. hrs. 18 lab. hrs. Prerequisite: Arch. 122.  
Hours to be arranged E209 Miss Houghton

328. **Poster Design and Lettering for Public School Teachers.** 2 sem. hrs. 18 lab. hrs. Prerequisite: Junior standing  
Hours to be arranged E209 Miss Houghton
3216. **Clay Modeling.** 2 sem. hrs. 18 lab. hrs. Prerequisite: Arch. 121-2.  
Hours to be arranged E1-2 Mr. Williams
3217. **Clay Modeling.** 2 sem. hrs. 18 lab. hrs. A continuation of Arch. 3216.  
Hours to be arranged E1-2 Mr. Williams

## Second Term, Nine Weeks

- Arch. 121. **Freehand Drawing.** 2 sem. hrs. 12 lab. hrs.  
Hours to be arranged E209 Mr. Lockard
- Arch. 122. **Freehand Drawing.** 2 sem. hrs. 12 lab. hrs.  
Hours to be arranged E209 Mr. Lockard
- Arch. 123. **Elements of Composition, I.** 2 sem. hrs. 12 lab. hrs.  
Hours to be arranged E212 Mr. Lockard
- Arch. 124. **Elements of Composition, I.** 2 sem. hrs. 12 lab. hrs.  
Hours to be arranged E212 Mr. Lockard
- Arch. 125. **Shades and Shadows.** 2 sem. hrs. 12 lab. hrs.  
Hours to be arranged E212 Mr. Lockard
- Arch. 142. **Elements of Architecture.** 4 sem. hrs. 2 lec. hrs.; 18 lab. hrs. Prerequisite: Arch. 141.  
Hours to be arranged E212 Mr. Lockard
- Arch. 236. **Elements of Composition, II.** 3 sem. hrs. 2 lec. hrs.; 12 lab. hrs. Prerequisite: Arch. 123-4.  
Hours to be arranged E212 Mr. Lockard
- Arch. 2216. **Pencil Rendering and Sketching.** 2 sem. hrs. 12 lab. hrs. Prerequisite: Arch. 122.  
Hours to be arranged E212 Mr. Lockard
- Arch. 2217. **Pen and Ink Rendering.** 2 sem. hrs. 12 lab. hrs. Prerequisite: Arch. 2216.  
Hours to be arranged E212 Mr. Lockard
- Arch. 223. **Perspective.** 2 sem. hrs. 12 lab. hrs. Prerequisite: Engr. Dwg. 134 or Arch. 141.  
Hours to be arranged E212 Mr. Lockard
- Arch. 232. **Architectural Design, Grade I.** 3 sem. hrs. 18 lab. hrs. Prerequisite: Arch 141-2.  
Hours to be arranged E212 Mr. Lockard
- Arch. 334. **Building Construction.** 3 sem. hrs. 2 lec. hrs.; 12 lab. hrs. Continuation of Arch. 333.  
Hours to be arranged E212 Mr. Lockard
- Arch. 338. **Public School Art.** 3 sem. hrs. 2 lec. hrs.; 12 lab. hrs. Prerequisite: Arch. 337.  
Hours to be arranged E212 Mr. Lockard
- Arch. 427. **Oil Painting or Advanced Water Color.** 2 sem. hrs. 12 lab. hrs. Prerequisite: Arch 426.  
Hours to be arranged E209 Mr. Lockard
- Arch. 437. **Principles of Drawing and Painting, and Theory of Design.** 3 sem. hrs. 3 lec. hrs.; 18 lab. hrs. Prerequisite: Arch. 2216 or 426-7.  
Hours to be arranged E209 Mr. Kleinschmidt
- Arch. 439. **Methods of Teaching Art Integrated for the Elementary School and the High School.** 3 sem. hrs. 3 lec. hrs.; 18 lab. hrs. Prerequisite: Arch. 335-6, Arch. 337-8, A. Arts 334, or senior standing.  
Hours to be arranged E203 Mr. Williams
- Arch. 4310. **Methods of Teaching Art Integrated for the Elementary School and the High School.** 3 sem. hrs. 3 lec. hrs.; 18 lab. hrs. Prerequisite: Arch. 439.  
Hours to be arranged E203 Mr. Williams
- Arch. 4311. **Ceramics.** 3 sem. hrs. 18 lab. hrs. Prerequisite: Arch. 239-10 or Arch. 3216-17.  
Hours to be arranged E1-2 Mr. Williams

## CIVIL ENGINEERING

## First Term

331. **Applied Mechanics—Statics.** 3 sem. hrs. Prerequisite: Math. 251 or 335.  
8-9:30 M-S E150 Mr. Decker

- 332. Applied Mechanics—Kinematics and Kinetics.** 3 sem. hrs. Prerequisite: C. E. 331.  
 Sec. 1. 9:30-11 M-S E109 Mr. Murdough  
 Sec. 2. 8-9:30 M-S E109 Mr. McRee
- 435. Traffic Safety Education.** 3 sem. hrs. 7½ lec. hrs.; 2 lab. hrs. Prerequisite: Senior standing and possession of State driver's license. May be counted as education (Edu. 4310). May be taken for graduate credit.  
 11-12:30 Tu-S E109 Mr. McRee  
 Laboratory hours to be arranged.
- Second Term, Six Weeks
- 231. Plane Surveying.** 3 sem. hrs., 6 lec. hrs. 9 lab. hrs. Prerequisite: Math. 131.  
 8-9 M-S E109 Mr. Decker  
 2-5 MWF E109 Mr. Decker
- 333. Applied Mechanics—Strength of Materials.** 3 sem. hrs. Prerequisite: C. E. 331.  
 9:30-11 M-S E201 Mr. Adams
- 410. Hydraulics Laboratory.** 1 sem. hr. 9 lab. hrs. Prerequisite: C. E. 420 or parallel.  
 2-5 MWF E158 Mr. McRee
- 420. Hydraulics.** 2 sem. hrs. Prerequisite: C. E. 331.  
 11-12 M-S E109 Mr. McRee

### ENGINEERING ORIENTATION

#### First Term

- 111. Engineering Orientation.** 1 sem. hr.  
 11:30-12:30 M-S E201 Mr. Adams or Mr. Murdough

### ELECTRICAL ENGINEERING

#### First Term

- 321. Electrical Engineering Laboratory.** 2 sem. hrs. 18 lab. hrs. Prerequisite: Registration in E. E. 331.  
 2-5 TTS E156 Mr. Helwig  
 Mr. Bullen
- 331. Principles of Electrical Engineering.** 3 sem. hrs. Prerequisite: E. E. 230.  
 8-9:30 M-S E152 Mr. Helwig
- 412. Electrical Engineering Laboratory.** 1 sem. hr. 9 lab. hrs. Prerequisite: Registration in E. E. 426 or 438.  
 2-5 MWF E156 Mr. Bullen
- 438. Elements of Electrical Engineering.** 3 sem. hrs. Prerequisite: Phys. 235, Math. 251.  
 9:30-11 M-S E152 Mr. Bullen

#### Second Term, Six Weeks

- 322. Electrical Engineering Laboratory,** 2 sem. hrs. 18 lab. hrs. Prerequisite: Registration in E. E. 332.  
 2-5 MWF E156 Mr. Helwig  
 Mr. Bullen
- 332. Principles of Electrical Engineering.** 3 sem. hrs. Prerequisite: E. E. 331.  
 9:30-11 M-S E152 Mr. Helwig
- 413. Electrical Engineering Laboratory.** 1 sem. hr. 9 lab hrs. Prerequisite: Registration in E. E. 427 or 439.  
 2-5 TTS E156 Mr. Helwig
- 439. Elements of Electrical Engineering.** 3 sem. hrs. Prerequisite: E. E. 426 or 438.  
 8-9:30 M-S E152 Mr. Helwig

#### Second Term, Nine Weeks

- 230. Principles of Electrical Engineering.** 3 sem. hrs. Prerequisite: Phys. 235, Math. 251.  
 11-12 M-S E152 Mr. Bullen
- 330. Principles of Electrical Engineering.** 3 sem. hrs. Prerequisite: Phys. 235, Math. 251.  
 11-12 M-S E152 Mr. Bullen

233. **Elements of Radio.** 3 sem. hrs. 4 lec. hrs.; 6 lab. hrs. Open to any college student.  
8-9 TWTF E256; 2-5 TT E256 Mr. Bullen

## INDUSTRIAL ENGINEERING AND ENGINEERING DRAWING

### Engineering Drawing

#### First Term

111. **Engineering Drawing.** 1 sem. hr. 9 lab. hrs. Prerequisite: Two sem. hrs. credit in Engr. Dwg. 132.  
Hours to be arranged Mr. Perryman
132. **Engineering Drawing.** 3 sem. hrs. 3 lec. hrs.; 18 lab. hrs. (not for entering freshmen)  
Hours to be arranged Mr. Perryman
133. **Engineering Drawing.** 3 sem. hrs. 3 lec. hrs. 18 lab. hrs. Prerequisite: Engr. Dwg. 132 or equivalent.  
Hours to be arranged Mr. Perryman
221. **Machine Drawing.** 2 sem. hrs. 18 lab. hrs. Prerequisite: Engr. Dwg. 133 or equivalent.  
Hours to be arranged Mr. Perryman

#### Industrial Engineering

421. **Chemical Plant Design.** 2 sem. hrs. 18 lab. hrs. Prerequisite: Engr. Dwg. 133; Parallel with or following Chem. 431-2.  
Hours to be arranged Mr. Perryman

#### Second Term, Six Weeks

#### Industrial Education

332. **Teaching of Safety.** 3 sem. hrs. Prerequisite: Junior standing or consent of Head of Department.  
11-12:30 M-S E263 Mr. St. Clair

#### Second Term, Nine Weeks

#### Engineering Drawing

132. **Engineering Drawing.** 3 sem. hrs. 2 lec. hrs.; 12 lab. hrs.  
2-3 MW E253; 8-10 M-S E261 Mrs. Atkinson
133. **Engineering Drawing.** 3 sem. hrs. 2 lec. hrs.; 12 lab. hrs. Prerequisite: Engr. Dwg. 132 or equivalent.  
2-3 TT E253; 8-10 M-S E261 Mrs. Atkinson
221. **Machine Drawing.** 2 sem. hrs. 12 lab. hrs. Prerequisite: Engr. Dwg. 133 or equivalent.  
Hours to be arranged Mr. St. Clair
222. **Descriptive Geometry.** 2 sem. hrs. 2 lec. hrs.; 6 lab. hrs. Prerequisite: Engr. Dwg. 132 or equivalent.  
Hours to be arranged E263 Mrs. Atkinson
223. **Agricultural Drawing.** 2 sem. hrs. 12 lab. hrs.  
Hours to be arranged Mr. St. Clair

#### Industrial Engineering

422. **Chemical Plant Design.** 2 sem. hrs. 9 lab. hrs. Prerequisite: Engr. Dwg. 133, I. E. 421, and parallel with or following Chem. 431-2.  
Hours to be arranged Mr. St. Clair

## MECHANICAL ENGINEERING

#### First Term

311. **Pattern Shop.** 1 sem. hr. 9 lab. hrs. Prerequisite: Engr. Dwg. 133.  
Hours to be arranged Shop Mr. Hardgrave
312. **Foundry Practice.** 1 sem. hr. 9 lab. hrs. Prerequisite: Registration in M. E. 311.  
Hours to be arranged Shop Mr. Hardgrave
313. **Machine Shop.** 1 sem. hr. 9 lab. hrs. Prerequisite: Engr. Dwg. 133.  
Hours to be arranged Shop Mr. Hardgrave
314. **Machine Shop.** 1 sem. hr. 9 lab. hrs. Prerequisite: M. E. 313.  
Hours to be arranged Shop Mr. Hardgrave

315. **Heat Treating of Steel.** 1 sem. hr. 9 lab. hrs.  
Hours to be arranged Shop Mr. Hardgrave
316. **Welding Practice.** 1 sem. hr. 9 lab. hrs.  
Hours to be arranged Shop Mr. Hardgrave
334. **Elementary Thermodynamics.** 3 sem. hrs. Prerequisite: Phys. 132,  
Math. 251. Mr. Godeke
337. **Metallurgy.** 3 sem. hrs. Prerequisite: Chem. 220.  
8-9:30 M-S E251 Mr. Godeke
- Second Term, Six Weeks
335. **Heat Engines.** 3 sem. hrs. Prerequisite: M. E. 334.  
11-12:30 M-S E251 Mr. Kipp
- Second Term, Nine Weeks
241. **Mechanisms.** 4 sem. hrs. 4 lec. hrs.; 12 lab. hrs. Prerequisite: Engr.  
Dwg. 133, M. E. 221. Mr. Kipp
322. **Dynamics of Machinery.** 2 sem. hrs. Prerequisite: M. E. 241, C. E. 332.  
9-10 MTTF E252; 3-5:30 M-F E252 Mr. Kipp
- 2-3 MTTF E251 Mr. Kipp

### TEXTILE ENGINEERING

#### First Term

333. **Bleaching and Dyeing.** 3 sem. hrs. 6 lec. hrs.; 9 lab. hrs.  
Hours to be arranged Mr. Jackson

## Division of Home Economics

### APPLIED ARTS

#### First Term

231. **Costume Design.** 3 sem. hrs. 6 lec. hrs.; 9 lab. hrs. Prerequisite: A.  
Arts 131 Miss Poindexter
334. **Wood Carving.** 3 sem. hrs. 3 lec. hrs.; 18 lab. hrs. Prerequisite: A.  
Arts 131 and 132, or 232 or the equivalent, and junior standing.  
Hours to be arranged Miss Hawley

#### Second Term, Six Weeks

331. **Interior Decoration.** 3 sem. hrs. 6 lec. hrs.; 9 lab. hrs. Prerequisite: A.  
Arts 131 and junior standing.

9:30-11 M-S H106; Lab. 2-5 TT H106

#### Second Term, Nine Weeks

131. **Design.** 3 sem. hrs. 4 lec. hrs.; 6 lab. hrs.  
11-12 TTFS H106; Lab. 2-4 MWF H106

### CHILD DEVELOPMENT AND FAMILY RELATIONS

#### Child Development

##### First Term

431. **Child Development.** 3 sem. hrs. 6 lec. hrs.; 9 lab. hrs. Prerequisite:  
Psy. 230 or 231. Miss Borgman
- 2-3:30 MTWF H102; 9 lab. hrs to be arranged N. S.

#### Family Relations

433. **Family Relations.** 3 sem. hrs. Prerequisite: Senior standing.  
8-9:30 M-S H102 Miss Callan

### CLOTHING AND TEXTILES

#### First Term

132. **Principles of Dressmaking.** 3 sem. hrs. 3 lec. hrs.; 18 lab. hrs.  
11-12:30 TT H205; Lab. 9:30-12:30 MWFS H205; 2-5 TT H205 Miss Looney
331. **Tailoring.** 3 sem. hrs. 3 lec. hrs. 18 lab. hrs. Prerequisite: Cloth 232,  
333; advanced standing.  
8-9:30 WF H205; Lab. 8-11 TTS H205; 2-5 MWF H205 Miss Looney

## Second Term, Six Weeks

333. **Pattern Designing.** 3 sem. hrs. 3 lec. hrs.; 18 lab. hrs. Prerequisite: Cloth. 131, 232.  
11-12:30 MW H205; Lab. 9:30-12:30 TTF H205; 2-5 MW H205; 3 lab. hrs. to be arranged Miss Allred
431. **Textile Economics.** 3 sem. hrs. 6 lec. hrs.; 9 lab. hrs. Prerequisite: Cloth. 333 or 232; Eco. 231 or 235.  
8-9:30 M-S Annex B; Lab. 2-5 TT Annex B Miss Erwin

## Second Term, Nine Weeks

232. **Dressmaking.** 3 sem. hrs. 2 lec. hrs.; 12 lab. hrs. Prerequisite: Cloth. 131, 132 or 133; A. Arts 231.  
9-10 M-S H205; Lab. 2-5 TTF; 3 lab. hrs. to be arranged, H205 Miss Allred

## FOODS AND NUTRITION

## First Term

131. **Elementary Food Preparation and Serving.** 3 sem. hrs. 6 lec. hrs.; 9 lab. hrs.  
11-12:30 TTS H210; Lab. 9:30-12:30 MWF; 1½ hrs. to be arranged H210 Miss McCrery
331. **Food Demonstration.** 3 sem. hrs. 6 lec. hrs.; 9 lab. hrs. Prerequisite: Foods 232, Nutr. 334.  
8-9:30 TTFS H107; Lab. 2-5 MWF H108 Miss Twyford
433. **Advanced Food Preparation and Serving.** 3 sem. hrs. 6 lec. hrs.; 9 lab. hrs. Prerequisite: Foods 232 and Nutr. 334.  
9:30-11 MTWF H107; Lab. 9:30-12:30 ThS; 2-5 Tu H108 Miss Twyford

## Nutrition

333. **Elementary Nutrition and Food Selection.** 3 sem. hrs. Prerequisite: Sophomore standing. Open to men and women not registered in the Department of Foods and Nutrition.  
8-9:30 M-S Annex B Mrs. Bavousett
334. **Dietetics.** 3 sem. hrs. 6 lec. hrs.; 9 lab. hrs. Prerequisite: Foods 131-2, Chem. 131-2, Zool. 235-6.  
8-9:30 MWTF Annex E; Lab. 8-11 S; 2-5 TT H210 Miss McCrery
432. **Nutrition.** 3 sem. hrs. 6 lec. hrs.; 9 lab. hrs. Prerequisite: Nutr. 334, Chem. 341 or 343-4.  
9:30-11 M-S Annex K; Lab. 2-5 TT Annex K Mrs. Lamb
533. **Readings in Nutrition.** A refresher course. 3 sem. hrs. Prerequisite: Nutr. 432 and graduate standing.  
8-9:30 Tu-S H102 Mrs. Lamb

## Second Term, Six Weeks

## Foods

335. **Food Preservation.** 3 sem. hrs. 12 lec. and 18 lab. hrs. (July 14 to Aug. 4). Prerequisite: Junior standing in foods and nutrition.  
9:30-11 M-F H102; Lab. 2-6 M-F H210; 9:30-12:30 S H210 Miss Pratt

## Nutrition

334. **Dietetics.** 3 sem. hrs. 6 lec. hrs.; 9 lab. hrs. Prerequisite: Foods 131-2, Chem. 131-2, Zool. 235-6.  
8-9 M-F H106; Lab. 8-11 S H108; 2-5 TT H108 Miss Weeks

## Second Term, Nine Weeks

132. **Elementary Food Preparation and Serving.** 3 sem. hrs. 4 lec. hrs.; 6 lab. hrs. Prerequisite: Foods 131.  
9:30-11 MWF H107; Lab. 9:30-12:30 TT H108 Miss Kleppe
232. **Meal Planning and Table Service.** 3 sem. hrs. 2 lec. hrs. 12 lab. hrs. Prerequisite: Foods 132 or 134.  
11-12 MWF H107; Lab. 9:30-12:30 S H108; 2-5 MWF H108 Miss Kleppe

## HOME ECONOMICS EDUCATION

## First Term

331. **Methods in Vocational Home Economics.** 3 sem. hrs. Prerequisite: Junior standing with 24 sem. hrs. in home economics and 67 grade points; Ed. 234.  
9:30-11 M-S Annex B Miss Bowles

434. **Methods of Teaching Art in the Homemaking Curriculum.** 3 sem. hrs.  
Prerequisite: H. E. Ed. 431.  
9:30-11 MWFS H106; Lab. 2-5 Tu H106 Miss Poindexter
435. **Methods for Leadership of Adults and Out-of-School Youth.** 3 sem. hrs.  
Prerequisite: Senior or graduate standing in home economics.  
11-12:30 MTWFS H102; 2 Th H102 Miss Bowles
- Second Term, Six Weeks
431. **Methods of Teaching Home Economics.** 3 sem. hrs. Prerequisite: H. E. Ed. 331, senior standing, 90 sem. hrs. and 100 grade points.  
11-12:30 M-S H102 Miss Johnson
432. **Problems in Teaching Clothing.** 3 sem. hrs. 6 lec. hrs.; 9 lab. hrs. Prerequisite: H. E. Ed. 431, senior standing in Clothing and Textiles.  
9:30-11 MTT Annex B; 9:30-12:30 WF Annex B Miss Erwin
532. **The Development of the Homemaking Program.** 3 sem. hrs. Prerequisite: Graduate standing and recent experience in teaching home economics.  
8-9:30 Tu-S H102 Miss Johnson

### HOME MANAGEMENT

#### First Term

323. **Home Nursing.** 2 sem. hrs. 3 lec. hrs.; 9 lab. hrs. Prerequisite: 6 hrs. of chemistry and zoology.  
The prevention and care of ordinary illness in the home; first aid treatment, the preparation and serving of food for the sick. Laboratories are given by a registered nurse at a Lubbock Sanitarium.  
9:30-10:30 TTS Annex K; Lab. 2-5 MWF Annex K and Lubbock General Hospital Miss Lyle
432. **Residence in Home Management House.** 3 sem. hrs. Prerequisite: H. Mgt. 331, 12 sem. hrs. of foods and nutrition, Child Dev. 431 or parallel.  
Miss Lyle

#### Second Term, Six Weeks

331. **Household Management.** 3 sem. hrs. 6 lec. hrs.; 9 lab. hrs. Prerequisite: Junior standing in home economics.  
11-12:30 M-S Annex K; Lab. 2-5 MW Annex K Miss Hittle
432. **Residence in Home Management House.** 3 sem. hrs. Prerequisite: H. Mgt. 331, 12 sem. hrs. of foods and nutrition, Child Dev. 431 or parallel.  
Miss Hittle

### INSTITUTIONAL MANAGEMENT

#### First Term

436. **Institutional Housekeeping.** 3 sem. hrs. 6 lec. hrs.; 9 lab. hrs.  
9:30-11 MWTF Annex E; 9 lab. hrs. to be arranged Miss Craddock

## Division of Arts and Sciences

### BIOLOGY

#### First Term

#### Biology

- 131-2. **Natural History of Plants and Animals.** 6 sem. hrs. 12 lec. hrs.; 18 lab. hrs.  
8-9, 11:30-12:30 M-S L34; 9-11:30 M-S, 2-5 Tu C217 Mr. Hefley

#### Botany

131. **General Botany.** 3 sem. hrs. 6 lec. hrs.; 9 lab. hrs.  
11-12:30 M-S, L35; 2-5 TT C210 Mr. Reed
232. **Taxonomy of Higher Plants.** 3 sem. hrs. 6 lec. hrs.; 9 lab. hrs.  
8-9:30 M-S L 35; 2-5 MW C210 Mr. Reed

#### Zoology

- 131-2. **General Zoology.** 6 sem. hrs. 12 lec. hrs.; 18 lab. hrs.  
8-9 M-S; 11:30-12:30 M-S, C-F; 9-11:30 M-S C212; 2-5 Tu C212 Mr. Landwer



## Second Term, Six Weeks

## Bacteriology

- 331-2. General Bacteriology. 6 sem. hrs. 10 lec. hrs.; 15 lab. hrs.  
8-9, 11:30-12:30 T-S L33; 9-11:30 M-S C208 Mr. Sealey

## Zoology

- 235-6. The Human Body, 6 sem. hrs. 12 lec. hrs.; 18 lab. hrs.  
8-9, 11:30-12:30 M-S C101; 9-11:30 M-S, 2-5 Th C212 and C210 Miss League

## Second Term, Nine Weeks

## Bacteriology

231. Bacteriology. 3 sem. hrs. 4 lec. hrs.; 6 lab. hrs.  
9-10 T-F L29; 2-5 MW C208 Mr. Smith

## Botany

132. General Botany. 3 sem. hrs. 4 lec. hrs.; 6 lab. hrs.  
11-12 M-S L32; 2-4 TT C217 Mr. Smith

## CHEMISTRY

## First Term

131. General Chemistry. 3 sem. hrs. 7½ lec. hrs.; 7½ lab. hrs.  
8-9:30 M-S C101 Mr. Schneider  
2-5 TT C-A Instructor
220. Qualitative Analysis. 2 sem. hrs. 3 lec. hrs.; 9 lab. hrs.  
8-9:30 T-S C-O; Lab. 2-5 TT C-E Mr. Dennis
331. Quantitative Analysis. 3 sem. hrs. 7 lec. hrs.; 20 lab. hrs.  
9:30-11 M-S C-O; Lab. 2-6 M-F C108 Mr. Craig
341. Organic Chemistry. 4 sem. hrs. 9 lec. hrs.; 9 lab. hrs.  
11-12:30 M-S J208; Lab. 2-5 MWF, C109 Mr. Schneider
343. Organic Chemistry. 4 sem. hrs. 9 lec. hrs.; 9 lab. hrs.  
11-12:30 M-S C-O Mr. Dennis  
2-5 MWF C103 Instructor
435. Advanced Quantitative Analysis. 3 sem. hrs. 27 lab. hrs.  
Hours to be arranged Mr. Craig

## Second Term, Six Weeks

344. Organic Chemistry. 4 sem. hrs. 9 lec. hrs.; 9 lab. hrs.  
11-12:30 M-S C-O; 2-5 MWF C103 Mr. Goodwin
- 411-2. Chemistry Seminar. 2 sem. hrs.  
10-11 M-S C-F Mr. Slagle
434. Organic Preparations. 3 sem. hrs. 27 lab. hrs.  
Hours to be arranged Mr. Goodwin

## Second Term, Nine Weeks

132. General Chemistry. 3 sem. hrs. 5 lec. hrs.; 6 lab. hrs.  
8-9 T-S C-F Mrs. Marshall  
2-5 TT C-A Mr. Slagle
242. Inorganic Chemistry. 4 sem. hrs. 6 lec. hrs.; 6 lab. hrs.  
8-9 M-S L29; Lab. 2-5 TT C109 Mr. Slagle
332. Quantitative Analysis. 3 sem. hrs. 6 lec. hrs.; 12 lab. hrs.  
9-10 M-S C-F; Lab. 2-6 MWF C108 Mrs. Marshall

## ECONOMICS AND BUSINESS ADMINISTRATION

## First Term

## Business Administration

111. Elementary Typewriting. 1 sem. hr. 15 lab. hrs.  
8-9:30 M-F 308; 1 hr. daily to be arranged Miss Zeman
121. Elementary Typewriting. 2 sem. hrs. 15 lab. hrs.  
8-9:30 M-F 308; 1 hr. daily to be arranged Miss Zeman
231. Elementary Shorthand. 3 sem. hrs. 15 lab. hrs.  
9:30-11, 3:30-5 M-F 308 To be selected
244. Elementary Accounting. 4 sem. hrs. 9 lec. hrs.; 9 lab. hrs.  
2-5 M-F 320 Mr. Taylor
139. Principles of Finance. 3 sem. hrs.  
9:30-11 T-S J210 Mr. Root
134. Business Law. 3 sem. hrs.  
8-9:30 T-S J204 Mr. Root

4312. Salesmanship. 3 sem. hrs.  
9:30-11 T-S 320 Mr. Ellsworth
4316. Governmental Accounting. 3 sem. hrs.  
11-12:30 T-S 314 Mr. Taylor

**Economics**

231. Principles of Economics. 3 sem. hrs.  
11-12:30 M-S 320 Mr. Plank
430. Research in Economics and Business. 3 sem. hrs.  
2-3:30 M-F 314 Mr. Ellsworth
439. Public Control of Business. 3 sem. hrs.  
8-9:30 T-S 320 Mr. Plank
533. Research in Economics and Business. 3 sem. hrs.  
2-3:30 M-F 314 Mr. Ellsworth

**Second Term, Six Weeks****Business Administration**

332. Principles of Marketing. 3 sem. hrs.  
9:30-11 T-S 320 Mr. Ellsworth
335. Business Law. 3 sem. hrs.  
11-12:30 T-S J204 Mr. Root
432. Advertising. 3 sem. hrs.  
9:30-11 T-S 219 Mr. Anderson
436. Principles of Cost Accounting. 3 sem. hrs.  
11-12:30 T-S 314 Mr. Rushing
439. Credits and Collection. 3 sem. hrs.  
8-9:30 T-S J204 Mr. Root
- 531-2. Thesis. 3 to 6 sem. hrs.  
Hours to be arranged The Staff

**Economics**

411. Seminar in Economics and Business Administration. 1 sem. hr.  
2-3 MWF 322 Mr. Ellsworth

**Second Term, Nine Weeks****Business Administration**

121. Elementary Typewriting. 2 sem. hrs. 9 lab hrs.  
8-9 M-F 308; 3 hrs. to be arranged Mrs. Eaves
122. Advanced Typewriting. 2 sem. hrs. 9 lab. hrs.  
8-9 M-F 308; 3 hrs. to be arranged Mrs. Eaves
232. Elementary Shorthand. 3 sem. hrs. 9 lab. hrs.  
9-10 M-F 308; 3 hrs. to be arranged Mrs. Eaves
245. Elementary Accounting. 4 sem. hrs. 6 lab. hrs.  
2-5 M-F 314 Mr. Rushing

**Economics**

232. Principles of Economics. 3 sem. hrs.  
11-12 M-S 320 Mr. Anderson
234. Economic Development of the United States. 3 sem. hrs.  
8-9 M-S 320 Mr. Anderson

**EDUCATION AND PSYCHOLOGY****First Term****Education**

125. Methods of Teaching Penmanship in the Elementary Grades, 2 sem. hrs.  
8-9 M-S 216 Mrs. Ivy Savage
131. Introduction to Education. 3 sem. hrs.  
8-9:30 M-S 316 Mr. Cooper
226. Basic Skills in the Elementary Grades. 2 sem. hrs Prerequisite: Sophomore standing in education  
11-12 M-S L26 Miss True
228. Materials and Methods in the Social Studies of the Elementary Grades. 2 sem. hrs. Prerequisite: Sophomore standing in education.  
2-3:30 T-F 221 Mr. Jackson

234. **Principles of Secondary Education.** 3 sem. hrs. Prerequisite: Sophomore standing.  
8-9:30 M-S 220 Mr. Garlin
235. **High School Methods.** 3 sem. hrs. Prerequisite: Sophomore standing.  
11-12:30 M-S 220 Mr. Shaver
313. **Motion Picture Appreciation.** 1 sem. hr. Prerequisite: Junior standing in education.  
9:30-11 TTS L26 Mrs. Ivy Savage
326. **Educational and Vocational Guidance.** 2 sem. hrs. Prerequisite: Junior standing in education.  
11-12 T-S 208 Mr. Barnett
327. **Methods in Classroom Tests.** 2 sem. hrs. Prerequisite: Junior standing in education.  
9:30-10:30 T-S 220 Mr. Evans
3316. **Observation and Practice.** 3 sem. hrs. Prerequisite: Junior standing in education.  
8-9:30 T-S L114 Mr. Shaver
3317. **Observation and Practice.** 3 sem. hrs. Prerequisite for primary and elementary teachers: 9 hrs. credit in the specific field concerned.  
2-3:30 M-F L114 Miss True
424. **The Supervision of Instruction.** 2 sem. hrs. Prerequisite: Junior standing in education.  
9:30-10:30 T-S 219 Mr. Garlin
427. **Evaluative Criteria.** 2 sem. hrs. Prerequisite: Senior or graduate standing in education.  
8-9 T-S 208 Mr. Evans  
Mr. Jackson  
Mr. Barnett
428. **Education for Democracy and Defense.** 2 sem. hrs. Prerequisite: Junior or senior standing in education  
11-12 T-S 316 Mr. Jackson
431. **Education in the United States.** 3 sem. hrs. Prerequisite: Junior or senior standing in education.  
9:30-11 T-S 208 Mr. Irvin
4320. **Workshop Procedures in Improving Classroom Conditions.** 3 sem. hrs. Prerequisite: Junior standing or consent of instructor.  
2-3:30 M-F L4 Mr. Irvin
- 511-2. **Seminar.** 2 sem. hrs. Prerequisite: Graduate standing in education. May be repeated for credit.  
11-12 T-S 210 Mr. Evans
530. **Thesis.** Credit varies with character of work. Seminar or staff conferences.  
3:30-4:30 T-F 216 Staff
537. **Student Counseling.** 3 sem. hrs. Prerequisite: Ed. 326, or its equivalent, and graduate standing.  
2-4:30 TWF 207 Mr. Gordon

### Psychology

231. **Educational Psychology.** 3 sem. hrs. Prerequisite: Sophomore standing in education.  
11-12:30 M-S 216 Mr. Cooper
333. **Measurements in Education.** 3 sem. hrs. Prerequisite: Junior standing in education.  
9:30-11 T-S 216 Mr. Barnett

### Second Term, Six Weeks

#### Education

132. **Classroom Management and Methods.** 3 sem. hrs.  
8-9:30 M-S 220 Mr. Jackson
314. **Reading Clinic in Education.** 1 sem. hr. Prerequisite: Junior standing in education.  
9:30-10:30 T-S (One Week) L4 Mr. and Mrs. Townsend
322. **High School Problems.** 2 sem. hrs. Prerequisite: Junior standing in education.  
11-12 T-S 214 Mr. Garlin

335. **The Junior High School.** 3 sem. hrs. Prerequisite: Junior standing in education.  
2-3:30 T-S 221 Mr. Shaver
3314. **The Principal and His School.** 3 sem. hrs. Prerequisite: Junior standing in education.  
9:30-11 T-S 221 Mr. Shaver
3315. **Visual-audio Aids in Education.** 3 sem. hrs. Prerequisite: Junior standing in education or consent of instructor.  
9:30-11 T-S 216 Mr. Cooper
423. **Public School Interpretation.** 2 sem. hrs. Prerequisite: Junior standing in education.  
8-9 T-S 210 Mr. Garlin
429. **Unit Teaching.** 2 sem. hrs. Prerequisite: Junior standing in education.  
11-12 T-S 220 Mr. Jackson
523. **Activities Program for Teachers in the Elementary School.** 2 sem. hrs. Prerequisite: Graduate standing in education.  
8-9 T-S L114 Miss True
526. **Educational Statistics.** 2 sem. hrs. Prerequisite: Graduate standing in education.  
2-3 M-F 210 Mr. Cooper
530. **Thesis.** Seminar or staff conferences. Credit varies with character of work.  
3:30-4:30 T-F 219 Staff

## Psychology

321. **Child Psychology.** 2 sem. hrs. Prerequisite: 3 hrs. in psychology and junior standing in education.  
11-12 T-S 210 Miss True
325. **The Psychology of Adolescence.** 2 sem. hrs. Prerequisite: 3 hrs. in psychology.  
9:30-10:30 T-S 220 Mr. Barnett
421. **Mental Tests.** 2 sem. hrs. Prerequisite: Psy. 230 or 231 and junior standing in education.  
8-9 M-F 216 Mr. Barnett
423. **Mental Hygiene.** 2 sem. hrs. Prerequisite: Psy. 230 and junior standing in education.  
2-3 M-F L114 Miss True

## Second Term, Nine Weeks

## Education

3310. **Children's Literature.** 3 sem. hrs. Prerequisite: Junior standing in education.  
8-9 M-S 214 Miss Dysart
3311. **Diagnosis and Improvement of Reading.** 3 sem. hrs. Prerequisite: Junior standing in education.  
9-10 M-S 207 Miss Dysart

## Psychology

230. **Introduction to Psychology.** 3 sem. hrs. Prerequisite: Sophomore standing.  
11-12 M-S 216 Miss Dysart

## ENGLISH

## First Term

131. **Freshman Composition.** 3 sem. hrs.  
Sec. 1 9:30-11 M-S 221 Mrs. Doak  
Sec. 2 8-9:30 M-S L26 Miss Horn  
Sec. 3 11-12:30 M-S L25 Miss Kennedy
132. **Freshman Composition.** 3 sem. hrs.  
Sec. 1 11-12:30 M-S L36 Miss Teague  
Sec. 2 8-9:30 M-S L11 Miss Kennedy
231. **Introduction to Literature.** 3 sem. hrs.  
Sec. 1 8-9:30 L12 Mr. Gunn  
Sec. 2 11-12:30 M-S L12 Miss Horn
232. **Introduction to Literature.** 3 sem. hrs.  
9:30-11 M-S L4 Mr. Murphy

233. **Technical Writing.** (Engineers) 3 sem. hrs.  
11-12:30 M-S L11 Mr. Camp
337. **Advanced Grammar.** 3 sem. hrs.  
11-12:30 T-S L4 Mr. Gunn
3316. **The Contemporary American Novel.** 3 sem. hrs.  
9:30-11 T-S J204 Mr. Mills
4310. **English Poets of the 19th Century.** 3 sem. hrs.  
8-9:30 T-S L36 Miss Teague
4312. **The Age of Johnson.** 3 sem. hrs.  
9:30-11 T-S L11 Mr. Camp
4317. **Modern European Drama.** (Formerly 439). 3 sem. hrs.  
8-9:30 T-S L4 Mr. Murphy
5311. **Literary Criticism.** (Graduates only). 3 sem. hrs.  
11-12:30 T-S L114 Mr. Cunningham

## Second Term, Six Weeks

231. **Introduction to Literature.** 3 sem. hrs.  
8-9:30 M-S L26 Mr. Smallwood
232. **Introduction to Literature.** 3 sem. hrs.  
Sec. 1 8-9:30 M-S L25 Mr. Strout  
Sec. 2 11-12:30 M-S L11 Miss Gill
3317. **The English Novel: Lyly to Scott.** 3 sem. hrs.  
9:30-11 T-S 206 Mr. Allen
432. **Shakespeare.** 3 sem. hrs.  
9:30-11 T-S L32 Mr. Gates
436. **English Romanticism.** 3 sem. hrs.  
8-9:30 T-S L11 Mr. Strout
4315. **Elizabethan Non-Dramatic Literature.** 3 sem. hrs.  
11-12:30 T-S L25 Miss Gill
536. **Outline of American Literary History.** (Graduates only). 3 sem. hrs.  
11-12:30 T-S L26 Mr. Smallwood

## Second Term, Nine Weeks

131. **Freshman Composition.** 3 sem. hrs.  
10-11 M-S L27 Mrs. Carter
132. **Freshman Composition.** 3 sem. hrs.  
Sec. 1 8-9 M-S L27 Mrs. Carter  
Sec. 2 11-12 M-S L27 Mrs. Carter

## FOREIGN LANGUAGE

## First Term

## French

- 231-2. **A Reading Course in French.** 6 sem. hrs. Prerequisite: French 131-2, or two units of high school French.  
8-9:30, 11-12:30 M-S J210 Mr. Ruff

## German

- 131-2. **A Beginning Course in German.** 6 sem. hrs.  
8-9:30, 11-12:30 M-S 221 Mr. Henninger
- 233-4. **Scientific German.** 6 sem. hrs. Prerequisite: German 131-2 or two yrs. of high school German or the equivalent.  
8-9:30, 11-12:30 M-S 221 Mr. Henninger

A one-year course in either first- or second-year German will be offered during the first term. The course offered will depend upon the demand; hence, students desiring either of these courses should communicate with the Head of the Department.

## Spanish

131. **A Beginning Course in Spanish.** 3 sem. hrs.  
8-9:30 M-S 219 Mr. Gordon
231. **Grammar, Reading, Composition, and Conversation.** 3 sem. hrs.  
11-12:30 M-S 219 Mr. Gordon
331. **Contemporary Literature.** 3 sem. hrs. Prerequisite: Spanish 231-2 or three or four units of high school Spanish.  
8-9:30 T-S 206A Mr. Hamilton

435. **Teacher's Course in Methods of Teaching Spanish.** (About two weeks of the term will be devoted to the teaching of Spanish in the grades) 3 sem. hrs. Prerequisite: Spanish 331-2 and six semester hours of education. 9:30-11 T-S 206 Mr. Qualia
4316. **A Survey of Spanish Literature.** 3 sem. hrs. Prerequisite: Span. 331-2. 11-12:30 T-S 206A Mr. Hamilton
5312. **Studies in Spanish Literature.** (A study of the first series of Galdos' Episodios Nacionales will be made). 3 sem. hrs. 8-9:30 T-S 206 Mr. Qualia
- 5314-15. **Thesis.** 3-6 sem. hrs. Hours to be arranged Staff

Second Term, Six Weeks  
Spanish

332. **Contemporary Literature.** 3 sem. hrs. A continuation of Span. 331. 8-9:30 T-S 206A Miss Nuss
4317. **A Survey of Spanish Literature.** 3 sem. hrs. A continuation of Span. 4316. 11-12:30 T-S 206A Mrs. Gates
4324. **Readings in Latin American Literature.** 3 sem. hrs. Prerequisite: Span. 331-2 or Span. 333-4. 9:30-11 T-S 206A Mrs. Gates
- 5314-15. **Thesis.** 3 or 6 sem. hrs. Hours to be arranged Staff

Second Term, Nine Weeks  
Spanish

132. **A Beginning Course in Spanish.** 3 sem. hrs. A continuation of Span. 131. 8-9 M-S 219
232. **Grammar, Reading, Composition, and Conversation.** 3 sem. hrs. A continuation of Spanish 231. 11-12 M-S 219 Miss Nuss

**GEOLOGY AND PETROLEUM ENGINEERING**

First Term

131. **General Geology.** 3 sem. hrs. 6 lec. hrs.; 9 lab. hrs. 9:30-11 M-S C-D; 2-5 MW C205 Mr. Glock
363. **Field Geology.** 6 sem. hrs. Prerequisite: Geol. 131-2 Mr. Patton
433. **Structural Geology.** 3 sem. hrs. First three weeks. 8-9:30, 11-12:30 T-S C-D Mr. Glock
434. **Petroleum Geology.** 3 sem. hrs. Second three weeks. 8-9:30, 11-12:30 T-S C-D Mr. Glock

Second Term, Six Weeks

363. **Field Geology.** 6 sem. hrs. Prerequisite: Geol. 131-2 Mr. Patton
- Second Term, Nine Weeks
132. **General Geology.** 3 sem. hrs. 4 lec. hrs.; 6 lab. hrs. 9-10 MTTF C-D; 2-4 MWF C205 Mr. Sidwell

Geography

- 131-2. **Geography.** 6 sem. hrs. 8 lec. hrs.; 12 lab. hrs. 8-9, 11-12 MTTF C-D; 9-11 M-S C205 Mr. Sidwell

**GOVERNMENT**

First Term

131. **American Government, National.** 3 sem. hrs. Sec. 1 9:30-11 M-S 302 Mr. Davis  
Sec. 2 8-9:30 302 Mr. Abernethy
132. **American Government, State.** 3 sem. hrs. Sec. 1 8-9:30 M-S J208 Mr. Pender  
Sec. 2 11-12:30 M-S 302 Mr. Bock
325. **Contemporary Problems.** 2 sem. hrs. Prerequisite: Junior standing and one course in American Government. 11-12 T-S J204 Mr. Abernethy
333. **American Political Parties, Party Development.** 3 sem. hrs. Prerequisite: American Government. 8-9:30 T-S 210 Mr. Bock

431. American Constitutional Law. 3 sem. hrs. Prerequisite: American Government.  
2-3:30 T-S J203 Mr. Davis
437. Political Geography. 3 sem. hrs. Prerequisite: Junior standing.  
11-12:30 T-S 206 Mr. Pender
531. Reading and Research. Registration may be made at any time upon approval of the Head of the Department.  
Hours to be arranged Staff
533. Thesis. 3-6 sem. hrs.  
Hours to be arranged Staff

## Second Term, Six Weeks

131. American Government, National. 3 sem. hrs.  
11-12:30 M-S 302 Mr. Davis
132. American Government, State. 3 sem. hrs.  
9:30-11 M-S 302 Mr. Pender
334. American Political Parties, Party Analysis. 3 sem. hrs. Prerequisite: American Government.  
8-9:30 T-S L28 Mr. Larson
432. American Constitutional Law. 3 sem. hrs. Prerequisite: American Government.  
2-3:30 M-F J203 Mr. Davis
438. World Politics. 3 sem. hrs. Prerequisite: American Government or six semester hours in history.  
11-12:30 M-F 206 Mr. Pender
532. Reading and Research. Registration may be made at any time upon approval of the Head of the Department. (First and Second terms.)  
Hours to be arranged Staff
534. Thesis. 3-6 sem. hrs.  
Hours to be arranged Staff

## Second Term, Nine Weeks

131. American Government, National. 3 sem. hrs.  
10-11 M-S L28 Mr. Larson
132. American Government, State. 3 sem. hrs.  
11-12 M-S L28 Mr. Larson

## HISTORY AND ANTHROPOLOGY

## First Term

## History

131. History of Civilization. 3 sem. hrs.  
9:30-11 M-S 316 Mr. Kinchen
231. Economic and Political History of the United States. 3 sem. hrs.  
8-9:30 M-S 214 Mr. Wallace
3319. Twentieth Century Britain. 3 sem. hrs.  
8-9:30 T-S L25 Mr. Kinchen
4316. The United States Since the World War. 3 sem. hrs.  
9:30-11 T-S 214 Mr. McKay
4319. Latin American Diplomacy. 3 sem. hrs.  
11-12:30 T-S 214 Mr. Wallace
535. The Technique of Research. 3 sem. hrs. Prerequisite: Graduate standing.  
Hours to be arranged Mr. Holden
536. Thesis Course. 3 sem. hrs.  
Hours to be arranged Mr. McKay

## Anthropology

331. Development of Man From His Origin. 3 sem. hrs. Prerequisite: Hist. 131-2 and junior standing.  
9:30-11 T-S 206A Mr. Holden

## Second Term, Six Weeks

## History

4317. The United States Since the World War. 3 sem. hrs.  
9:30-11 T-S 214 Mr. McKay
536. Seminar in History. 3 sem. hrs. Prerequisite: Graduate standing.  
Hours to be arranged Mr. Holden

536. **Thesis Course.** 3 sem. hrs.  
Hours to be arranged  
Second Term, Nine Weeks  
Mr. McKay
132. **History of Civilization.** 3 sem. hrs.  
10-11 M-S 316  
Mr. Eaves
232. **Economic and Political History of the United States.** 3 sem. hrs.  
8-9 M-S 316  
Mr. Eaves
3315. **Japan and China.** 3 sem. hrs.  
11-12 T-S 316  
Mr. Eaves

**JOURNALISM**

## First Term

331. **Special Feature Articles.** 3 sem. hrs.  
8-9:30 T-S J203  
Mr. Horne
432. **High School Publication.** 3 sem. hrs.  
11-12:30 T-S J203  
Mr. Horne
- 3312-13. **Press Photography.** 6 sem. hrs. 7½ lec. hrs.; 15 lab. hrs.  
Hours to be arranged  
Mr. Cowan

**MATHEMATICS**

## First Term

121. **Algebra.** 2 sem. hrs. Prerequisite: One and one-half units of high school algebra.  
9:30-10:30 M-S E253  
Mr. Christianson
131. **Trigonometry.** 3 sem. hrs. Prerequisite: One unit of high school algebra and one unit of plane geometry.  
11-12:30 M-S E253  
Mr. Heineman
132. **Analytics.** 3 sem. hrs. Prerequisite: Math. 121, 131.  
9:30-11 M-S 207  
Mr. Gilbert
137. **Commercial Algebra.** 3 sem. hrs. Prerequisite: One unit of high school algebra.  
8-9:30 M-S E253  
Mr. Christianson
233. **Calculus Application.** 3 sem. hrs. Prerequisite: Math. 251.  
8-9:30 M-S 207  
Mr. Michie
332. **Methods of Teaching Algebra and Geometry.** 3 sem. hrs. Prerequisite: Math. 235 and 236, or equivalent.  
Hours to be arranged  
Mr. Christianson
335. **Differential Calculus.** 3 sem. hrs. Prerequisite: Math. 236.  
11-12:30 T-S 207  
Mr. Michie
437. **Higher Geometry.** 3 sem. hrs. Prerequisite: The consent of the instructor.  
2-3:30 M-S 208  
Mr. Gilbert
539. **Introduction to the Theory of Finite Groups.** 3 sem. hrs. Prerequisite: Math. 433.  
Hours to be arranged  
Mr. Heineman
5311. **Thesis Course.** 3 sem. hrs. Prerequisite: Graduate standing and 30 semester hours in mathematics.  
Hours to be arranged  
Mr. Gilbert

## Second Term, Nine Weeks

122. **Algebra.** 2 sem. hrs. 4 lec. hrs. Prerequisite: Math. 121 or 130.  
10-11 T-F E253  
Mr. Woodward
130. **Algebra.** 3 sem. hrs. Prerequisite: One unit of high school algebra and one unit of plane geometry.  
8-9 M-S 207  
Miss May
131. **Trigonometry.** 3 sem. hrs. Prerequisite: One unit of high school algebra and one unit of plane geometry.  
10-11 M-S 207  
Miss May
132. **Analytics.** 3 sem. hrs. Prerequisite: Math 121, 131.  
11-12 M-S E253  
Mr. Woodward
138. **Mathematics of Finance.** 3 sem. hrs. Prerequisite: Math 137 or its equivalent.  
11-12 M-S 207  
Miss May



233. **Calculus Application.** 3 sem. hrs. Prerequisite: Math 251.  
9:30-11 M-S 208 Mr. Rigby
251. **Calculus.** 5 sem. hrs. Prerequisite: Math. 122, 132.  
8-9, 11-12 T-S 208 Mr. Rigby
336. **Integral Calculus.** 3 sem. hrs. Continuation of Math. 335.  
8-9 T-S E253 Mr. Woodward
5311. **Thesis Course.** 3 sem. hrs. Prerequisite: Graduate standing and 30 semester hours in mathematics.  
Hours to be arranged Mr. Rigby

**MUSIC****First Term**

122. **Solfeggio.** 2 sem. hrs.  
11-12 M-S 312 Mr. Blitz
123. **Harmony.** 2 sem. hrs.  
9:30-10:30 M-S 312 Mr. Blitz
- 125-6. **et. seq. Applied Music Demonstration Course.** For credits and prerequisites see general catalogue.  
2-3 M 312 Mr. Blitz and Applied Music Staff
212. **Public School Music Education.** 1 sem. hr.  
2-3 TWT 312 Mr. Blitz
431. **Minor Instruments (Strings).** 3 sem. hrs.  
8-9:30 T-S 312 Mr. Blitz

**Second Term, Six Weeks**

- 125-6. **et. seq. Applied Music Demonstration Course.** For credits and prerequisites see general catalogue.  
10-11 M 312 Applied Music Staff
211. **Public School Music Education.** 1 sem. hr.  
10-11 TWT 312 Mrs. Trotter
337. **Music Education. (Public School Music).** 3 sem. hrs.  
8-9:30 T-S 312 Mrs. Trotter

**Second Term, Nine Weeks**

- 125-6. **et. seq. Applied Music Demonstration Course.** For credits and prerequisites see general catalogue.  
Hours to be arranged Applied Music Staff

**Music (Band)****First Term**

125. **Band.** 2 sem. hrs.  
Hours to be arranged Mr. Wiley
126. **Band.** 2 sem. hrs.  
Hours to be arranged Mr. Wiley
225. **Band.** 2 sem. hrs.  
Hours to be arranged Mr. Wiley
226. **Band.** 2 sem. hrs.  
Hours to be arranged Mr. Wiley
325. **Band.** 2 sem. hrs.  
Hours to be arranged Mr. Wiley
326. **Band.** 2 sem. hrs.  
Hours to be arranged Mr. Wiley
425. **Band.** 2 sem. hrs.  
Hours to be arranged Mr. Wiley
426. **Band.** 2 sem. hrs.  
Hours to be arranged Mr. Wiley
115. **Band,** 1 sem. hr.  
Hours to be arranged Mr. Wiley and Assistants
116. **Band.** 1 sem. hr.  
Hours to be arranged Mr. Wiley and Assistants
215. **Band.** 1 sem. hr.  
Hours to be arranged Mr. Wiley and Assistants
216. **Band.** 1 sem. hr.  
Hours to be arranged Mr. Wiley and Assistants
315. **Band.** 1 sem. hr.  
Hours to be arranged Mr. Wiley and Assistants

316. **Band.** 1 sem. hr.  
Hours to be arranged Mr. Wiley and Assistants
415. **Band.** 1 sem. hr.  
Hours to be arranged Mr. Wiley and Assistants
416. **Band.** 1 sem. hr.  
Hours to be arranged Mr. Wiley and Assistants
4215. **Band.** Additional senior work. 2 sem. hrs.  
Hours to be arranged Mr. Wiley
4216. **Band.** Additional senior work. 2 sem. hrs.  
Hours to be arranged Mr. Wiley
521. **Band. Conducting for Graduate Students.** 5 lec. hrs.  
Hours to be arranged Mr. Wiley
522. **Applied Band.** 2 sem. hrs.  
Hours to be arranged Mr. Wiley
523. **Symphonies.** 2 sem. hrs.  
Hours to be arranged Mr. Wiley
524. **Symphonies and Symphonic Poems.** 2 sem. hrs.  
Hours to be arranged Mr. Wiley

**ORIENTATION**

## First Term

111. **Orientation.** 1 sem. hr.  
Section 1. 9:30-11 WS 210 Miss True  
Section 2. 9:30-11 TF 210 Mr. Cooper

**PHILOSOPHY AND SOCIOLOGY**

## First Term

**Philosophy**

330. **Introduction to Philosophy.** 3 sem. hrs.  
9:30-11 T-S L35 Mr. Bahm

**Sociology**

331. **Social Pathology.** 3 sem. hrs.  
2-3:30 T-S L35 Mr. Bahm

**PHYSICAL EDUCATION**

## First Term

**Physical Education for Men**

113. **Physical Training.** 1 sem. hr. 6 lab. hrs.  
5-6 M-S Gym Mr. Nichols
213. **Physical Training.** 1 sem. hr. 6 lab. hrs.  
5-6 M-S Gym Mr. Nichols
431. **Theory and Practice of Coaching.** 3 sem. hrs.  
8-9:30 T-S E201 Mr. Morgan
- \*3312. **Safety and First Aid.** 3 sem. hrs.  
9:30-11 T-S E201 Mr. Jennings

## Second Term, Six Weeks

114. **Physical Training.** 1 sem. hr. Continuation of P. T. 113.  
5-6 M-S Gym Mr. Spears
214. **Physical Training.** 1 sem. hr. Continuation of P. T. 213.  
5-6 M-S Gym Mr. Spears
3311. **Methods of Teaching Physical Education in High School.** 3 sem. hrs.  
9:30-11 T-S E150 Mr. Jennings
432. **Theory and Practice of Coaching.** 3 sem. hrs.  
8-9:30 T-S E201 Mr. Huffman

## Second Term, Nine Weeks

114. **Physical Training.** 1 sem. hr. 4 lab. hrs. per week  
5-6 MTWT, Gym Mr. Spears and Mr. Jennings
214. **Physical Training.** 1 sem. hr. 4 lab. hrs. per week.  
5-6 MTWT, Gym Mr. Spears and Mr. Jennings

\*Open to men and women

221. Theory and Practice of Individual Sports. 2 sem. hrs. 8 lab. hrs.  
3-5 MTWT Gym Mr. Jennings

## Physical Education for Women

## First Term

212. Tennis. 1 sem. hr. 6 lab. hrs.  
8-9:30 T-F Courts Miss Baskin
217. Folk Dancing. 1 sem. hr. 6 lab. hrs.  
9:30-11 T-F Gym Miss Baskin
218. Volleyball and Baseball. 1 sem. hr. 6 lab. hrs.  
11-12:30 T-F Gym Miss Baskin
2110. Archery and Ping-Pong. 1 sem. hr. 6 lab. hrs.  
4-5:30 T-F Field Miss Baskin
- \*230. Principles of Health Education. 3 sem. hrs.  
8-9:30 M-S L25 Mrs. Langford
- \*436. Physical Examination in Physical Education. 3 sem. hrs.  
11-12:30 T-S E150 Mrs. Langford
- Recreation Program. No sem. hrs. Miss Baskin and Mrs. Langford

## Second Term, Six Weeks

2110. Archery and Ping-Pong. 1 sem. hr. 6 lab. hrs.  
9:30-11 T-F Field Miss Floyd
2112. Swimming. 1 sem. hr. 6 lab. hrs.  
4-5:30 T-F Pool Miss Floyd
- \*2115. Badminton. 1 sem. hr. 6 lab. hrs.  
11-12:30 T-F Gym Miss Floyd
- \*233. Methods in Physical Education for the Elementary School Teacher. 3 sem. hrs.  
8-9:30 M-S Gym Miss Baskin
- \*331. Recreational Methods. 3 sem. hrs.  
11-12:30 T-F E150; 11-12:30 S Gym Miss Baskin

## Second Term, Nine Weeks

111. Fundamentals in Gymnastics and Rhythms. 1 sem. hr. 4 lab. hrs.  
2-3 T-F Gym Miss Floyd
212. Tennis. 1 sem. hr. 6 lab. hrs.  
8-9 T-F Courts Miss Floyd

## PHYSICS

## First Term

131. Elements of College Physics. 3 sem. hrs. 6 lec. hrs.; 9 lab. hrs.  
8-9 M-S C116 Mr. George  
2-5 MWF C117 Mr. Childress
215. Physical Measurements. 1 sem. hr. 9 lab. hrs. Must be taken parallel with Phys. 235.  
2-5 TTF C-T Mr. George
235. Engineering Physics. 3 sem. hrs. Prerequisite: One year of high school or elementary college physics; parallel enrollment in calculus.  
11-12:30 M-S C116 Mr. George
435. Introduction to Modern Physics. 3 sem. hrs. Prerequisite: Phys. 235-6 and calculus.  
Hours to be arranged Mr. George

## Second Term, Six Weeks

436. Introduction to Modern Physics. 3 sem. hrs. Prerequisite: Phys: 235-6 and calculus.  
Hours to be arranged Mr. Rush

## Second Term, Nine Weeks

132. Elements of College Physics. 3 sem. hrs. 4 lec. hrs.; 6 lab. hrs.  
8-9 TTFS C116 Mr. Rush  
2-5 MW C117 Mr. Childress

\*Open to men and women

216. **Physical Measurements.** 1 sem. hr. 6 lab. hrs. Must be taken parallel with Phys. 236.  
2-5 TT C-T
236. **Engineering Physics.** 3 sem. hrs. Prerequisite: One year of high school or elementary college physics; parallel enrollment in calculus.  
11-12 M-S C116

Mr. Rush

Mr. Childress

Mr. Rush

**SPEECH**

## First Term

337. **Project Speaking.** 3 sem. hrs.  
8-9:30 T-S 202
435. **Technique of Interpretation.** 3 sem. hrs.  
11-12:30 T-S 202

Miss Pendleton

Miss Pendleton

## Second Term, Six Weeks

311. **Parliamentary Law.** 1 sem. hr.  
11-12 TTS 202
323. **Radio Speaking.** 2 sem. hrs.  
3:30-5:30 TWT Radio House

Mr. Watson

Mr. Watson

## Second Term, Nine Weeks

131. **Fundamentals of Public Speaking.** 3 sem. hrs.  
8-9 M-S 202
233. **Voice and Diction.** 3 sem. hrs.  
10-11 M-S 202

Mr. Watson

Mr. Watson

**Division of Military Science and Tactics**

## First Term, Second Term, Nine Weeks

- M. S. 112. **First Year Basic.** 1 sem. hr. (1 classroom hour and 2 drill hours per week for 15 weeks.) Theoretical and Practical.  
7-8 A. M. M M-1; Drill period to be arranged, probably 5-7 P. M. Monday
- M. S. 212. **Second Year Basic.** 1 sem. hr. (1 classroom hour and 2 drill hours per week for 15 weeks.) Theoretical and Practical.  
7-8 A. M. W M-1; Drill period to be arranged, probably 5-7 P. M. Monday

## First Term, Second Term, Six Weeks

- M. S. 332. **First Year Advanced.** 3 sem. hrs. (5 classroom hours and 2 drill hours per week for 12 weeks). Prerequisite: M. S. 211-2. Theoretical and Practical.  
11-12 M-F M-1; Drill period to be arranged, probably 5-7 P. M. Monday