Twenty-Sixth

ANNUAL CATALOGUE

Session 1901-1902.

Agricultural and Mechanical College

OF TEXAS.

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and Money Order Office:

College Station, Texas.

AUSTIN:
VON BOECKMANN, SCHUTZE & CO., STATE PRINTERS.
1902.

CALENDAR
1902.

JANUARY.

S	M	T	W	T	F	S
...	...	...	1	2	3	4
5	6	7	8	9	10	11
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FEBRUARY.

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MARCH.

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APRIL.

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MAY.

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JUNE.

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SEPTEMBER.

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OCTOBER.

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CALENDAR
1903.

JANUARY.						
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JUNE.						
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JULY.						
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AUGUST.						
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SEPTEMBER.						
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OCTOBER.						
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NOVEMBER.						
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DECEMBER.						
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COLLEGE CALENDAR.

1902.

Entrance Examinations begin Monday, September 8.
Fall Term begins Wednesday, September 10.
Anniversary Austin Society, November 15.
National Holiday, Thanksgiving Day.
Christmas Holiday, December 20 to January 4, 1903.

1903.

Winter Term begins January 5, 1903.
National Holiday, February 22.
Texas Independence Day, March 2.
Spring Term begins Monday, March 16.
Anniversary Calliopean Society, March 16.
San Jacinto Day, April 21.
Final Examinations begin June 1.
Commencement Sunday, June 7.
Exhibition of Departments and of Work of Students, June 8.
Commencement Day, June 9.

BOARD OF DIRECTORS.

HON. MARION SANSOM, President..... Alvarado.
HON. F. A. REICHARDT..... Houston.
HON. A. C. OLIVER..... Douglasville.
HON. WM. MALONE ..... Hunter.
HON. P. H. TOBIN..... Denison.
HON. A. P. SMYTH..... Mart.
HON. JOHN W. KOKERNOT..... San Antonio.
HON. JEFFERSON JOHNSON ..... Austin.

SECRETARY OF THE BOARD.

J. A. BAKER..... College Station.

FACULTY.

R. H. WHITLOCK, M. E., PRESIDENT PRO TEM.

R. H. WHITLOCK, M. E.,
Professor of Mechanical Engineering.

H. H. HARRINGTON, M. S.,
Professor of Chemistry and Mineralogy.

CHARLES PURYEAR, M. A., C. E.,
Professor of Mathematics.

MARK FRANCIS, D. V. M.,
Professor of Veterinary Science.

F. E. GIESECKE, M. E.,
Professor of Drawing.

J. C. NAGLE, M. A., C. E., M. C. E.,
Professor of Civil Engineering.

R. H. PRICE, B. S.,
Professor of Horticulture and Mycology.

T. C. BITTLE, A. M., PH. D.,
Professor of Languages.

J. H. CONNELL, M. SC.,
Professor of Agriculture.

C. W. HUTSON,
Professor of History.

FREDERICK W. MALLY, M. SC.,
Professor of Entomology.

D. W. SPENCE, B. SC., C. E.,
Professor of Physics.

H. NESS, M. S.,
Professor of Botany.

CAPTAIN F. P. AVERY, U. S. ARMY,
Professor of Military Science, and Commandant of Cadets.

W. B. PHILPOTT, M. S.,
Professor of English.

OTHER INSTRUCTORS.

ROBERT F. SMITH,
Associate Professor of Mathematics.

P. S. TILSON, M. S.,
Associate Professor of Chemistry.

A. L. BANKS, A. B., M. S.,
Associate Professor of Mathematics.

H. W. SOUTH,
Associate Professor of Languages.

C. P. FOUNTAIN, A. M.,
Associate Professor of English.

E. W. KERR, M. E.,
Assistant Professor of Mechanical Engineering.

A. C. LOVE, B. S.,
Assistant Professor of Drawing.

C. H. ALVORD, B. S.,
Assistant Professor of Agriculture.

E. A. WHITE, B. S.,
Assistant Professor of Horticulture.

W. J. SOWDER, B. S.,
Instructor of Irregular Students.

H. M. ROLLINS, B. S.,
Instructor in Shops.

N. FRAENKEL, PH. D.,
Assistant in Chemistry.

W. I. BRYAN, B. S.,
Instructor in Carpentry.

PROFESSOR PURYEAR,
Secretary of the Faculty, and Librarian.

PROFESSOR BITTLE,
Chaplain.

OTHER OFFICERS.

A. C. GILLESPIE, M. D.,
Surgeon.

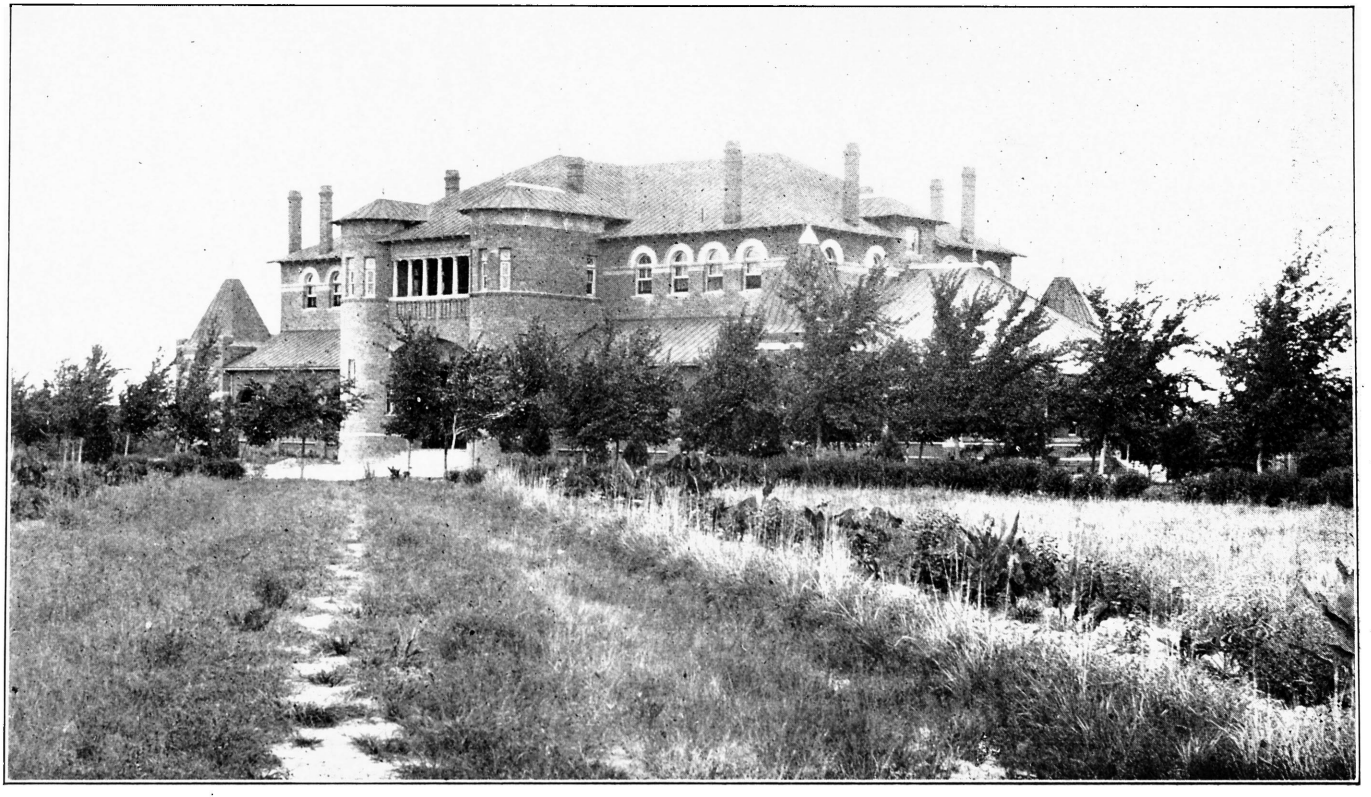
J. A. BAKER,
Secretary.

J. G. HARRISON, A. B.,
Bookkeeper.

B. SBISA,
Steward.

J. W. CARSON,
Superintendent of the Farm.

G. S. WHITNEY,
Physical Director.



MESS HALL.

CATALOGUE OF STUDENTS.

EXPLANATION.

Degrees: B. S., Bachelor of Science; M. S., Master of Science; M. E., Mechanical Engineer; C. E., Civil Engineer.

Courses: Agr., Agriculture; Mech. Eng., Mechanical Engineering; Civ. Eng., Civil Engineering.

FELLOW IN CHEMISTRY.

Wm. Walden, B. S.

POST GRADUATES.

Name.	Course.	Residence.
J. J. Hooper, B. S.	M. S.	Houston.
H. M. Rollins, B. S.	M. E.	College Station.
Wm. Walton, B. S.	M. S.	College Station.

FIRST CLASS.

Name.	Course.	Residence.
Acker, Lamar	C. E.	Lampasas.
Akers, M. E.	C. E.	Aurora.
Alexander, R. L.	C. E.	Manchaca.
Barham, Geo. S.	M. E.	Nacogdoches.
Batte, T. R., Jr.	C. E.	Bryan.
Carpenter, M. M.	Agr.	Sour Lake.
Eppright, F. G.	M. E.	Manor.
Foy, V. H.	M. E.	Baird.
Garnett, R. M.	C. E.	Denton.
Gillespie, S. E.	M. E.	Duncanville.
Gleason, Harry	C. E.	Hico.
(Graduate Hico High School.)		
Harrington, C. B.	Agr.	West Point, Miss.
Harrison, Jerome	M. E.	College Station.
Holzman, F. R.	Agr.	Industry.
Jacot, H.	C. E.	Colombier, Switz.
Kerr, Ira J.	C. E.	Corsicana.
Klingelhoefer, Aug. W.	C. E.	Fredericksburg.
Kloss E.	M. E.	Millheim.
Lawley, L. P., Jr.	Agr.	Oakville.
Markham, E. L.	C. E.	Paragould, Ark.
(Graduate Beeville High School.)		
Mittman, E. F.	C. E.	Galveston.
Moore, F.	Agr.	Edna.
McDonald, Walter H.	Agr.	Palestine.
McComb, E. K.	C. E.	Marlin.
Olds, T. H.	C. E.	Purcell, I. T.

Name.	Course.	Residence.
Rawlins, S. A.	M. E.	Oak Cliff.
Rice, E. R.	M. E.	Beaumont.
Ridenhower, Ray	C. E.	Hico.
(Graduate Hico High School.)		
Robertson, D. K.	M. E.	Dallas.
Ross, J. L.	C. E.	Cooper, La.
Ross, Robt.	C. E.	Rossville.
Samusch, L.	C. E.	Hallettsville.
Youngblood, B.	Agr.	Milano.

SECOND CLASS.

Name.	Course.	Residence.
Abrahams, M. L.	M. E.	New Braunfels.
Bailey, R.	C. E.	Coleman.
Barham, R. E.	C. E.	Nacogdoches.
Baum, John A.	C. E.	Corsicana.
Beilharz, Wm. E.	M. E.	Dallas.
Blanchette, Herbert H.	C. E.	Beaumont.
Blount, Guy A.	C. E.	Nacogdoches.
Briggs, H. N.	M. E.	Cline.
Catlin, S. W.	C. E.	El Paso.
Davenport, R. S.	M. E.	Dewville.
Davis, J. M., Jr.	C. E.	Forney.
(Graduate Lewis Academy.)		
Dealey, G. W.	Agr.	Galveston.
Devine, F. C.	Agr.	San Antonio.
Eidson, J. R.	C. E.	Hamilton.
Erhard, E. C.	M. E.	Bastrop.
(Graduate Bastrop Public School.)		
Graves, D. R.	M. E.	Waxahachie.
Harral, A. G.	M. E.	Dudley.
Heidelberg, H. A.	M. E.	Marshall.
Heldenfels, C. A.	Agr.	Beeville.
Isbell, J. M.	C. E.	Pankey.
Jobson, T. S.	M. E.	New Hope.
Jones, O. A.	M. E.	Rices Crossing.
Jouett, W. H.	C. E.	Royse.
Kinsloe, R. H.	M. E.	Corsicana.
Kirkpatrick, L. R.	M. E.	McKinney.
(Graduate McKinney Public School.)		
Kosminsky, I. J.	C. E.	Texarkana.
Lindemann, Ernest	M. E.	Austin.
Lockett, N., Jr.	C. E.	Lovelady.
Mansfield, R. H.	C. E.	Tyler.
Martin, Walter	C. E.	Odessa.
Mathews, H. F.	C. E.	College Station.
Meyer, H. J.	C. E.	Ellinger.
Miles, E. G.	C. E.	Fairfield.
Moore, G. G.	C. E.	DeKalb.
McCall, H. S.	C. E.	Sabine Pass.
McGregor, Flint	C. E.	Weimar.

Name.	Course.	Residence.
McKay, Guy	M. E	Longview.
McKee, G. A., Jr	Agr.	Mt. Selman.
McKnight, O. J	C. E	Marlin.
McLavy, R. B	M. E	Bastrop.
Odom, Joe	M. E	Godley.
Oliphint, John W	C. E	Huntsville.
(Graduate Huntsville School.)		
Polk, Louis C	Agr.	Corsicana.
Puckett, J. W	C. E	Buda.
(Graduate Kyle High School.)		
Range, J. F	M. E	Mesquite.
Risien, Geo. W	C. E	Oak Cliff.
Rose, Hubert	C. E	Waco.
Sanders, P. L	C. E	Nacogdoches.
Sattler, A. G	C. E	Karnes City.
Smith, E. G	C. E	DeKalb.
Stapp, W. E	C. E	Conroe.
Tilson, W. H	C. E	Plainview.
Wallace, L. W	M. E	Garfield.
(Graduate Bastrop Public School.)		
Warden, T. B	C. E	McKinney.
Williams, I. L	M. E	Houston.
Williamson, L. B	Agr.	Lockhart.
Worthing, E. E	M. E	Tipton, Mo.

THIRD CLASS.

Name.	Course.	Residence.
Aguayo, A. N	M. E	Parras, Mex.
Altgelt, E. S	C. E	San Antonio.
Bauer, F	M. E	Burton.
Bellinger, J. E	M. E	Marlin.
Benjamin, Jos. W	C. E	Cuero.
Bernay, Camp L	C. E	Brownwood.
Blake, Thos. W	Agr.	Sherman.
Blanton, J. F	Agr.	Flatonia.
Briggs, J. H., Jr	M. E	Cline.
Bryant, O. J	M. E	Austin.
Bunnell, Arthur	C. E	Taylor.
Burleson, W. M	C. E	San Saba.
Burns, John C	Agr.	Cuero.
Carter, Jas. W	C. E	Celeste.
Chinn, H. W., Jr	M. E	Weimar.
Clonts, Thos. P	C. E	Mart.
Cobbs, T. D, Jr	M. E	San Antonio.
Cochran, Jerome	C. E	Houston.
Conner, Arthur	Agr.	Rosebud.
Corder, Eugene	Agr.	Menardville.
Cook, L. P	C. E	Eolian.
Corley, M	M. E	Oak Cliff.
(Graduate Oak Cliff High School.)		
Corley, Q	C. E	Oak Cliff.
(Graduate Oak Cliff High School.)		

Name.	Course.	Residence.
Corley, W. W	M. E	Lone Oak.
Crook, John W	M. E	Cresson.
Cruse, T. L	C. E	Woodville.
Dahlgren, J. A	C. E	Velardena, Me.
Dahme, A. F	C. E	Yorktown.
Davenport, H. S	Agr.	Palestine.
Davis, Carl Y	C. E	McKinney.
(Graduate McKinney High School.)		
Dean, J. C	M. E	Wichita Falls.
(Graduate Wichita Falls High School.)		
DeWare, Robt. R	C. E	Jefferson.
Dibrell, J. F	M. E	Seguin.
Doucette, A. H	C. E	Beaumont.
DuBose, C	C. E	Palestine.
Dunn, Ralph	M. E	Wheelock.
Echols, R. T	M. E	Ballinger.
Eidelbach, M	C. E	Flatonia.
Elam, W	M. E	Marlin.
Elder, Ernest H	C. E	Cuero.
Floyd, A. M	M. E	Laredo.
Fountain, T. D	M. E	Reagan.
Giles, H. A	C. E	Houston.
Glass, R. H	M. E	Franklin.
Gordon, S	Agr.	Beaumont.
Gossett, J. R	M. E	Roseland.
Green, Sam L	C. E	Hallettsville.
Greer, H. I	M. E	Beaumont.
Hailes, W. J	M. E	Buckholts.
Hampton, B. Wade	M. E	Hillsboro.
Hamner, Stayton	M. E	Colorado City.
Haner, E., Jr	C. E	San Antonio.
Hill, J. E., Jr	M. E	Manor.
Hoffer, Temple B	C. E	Ballinger.
Horton, C. B	M. E	Hamilton.
Houchins, Warren A	C. E	Hallettsville.
Hull, Burt E	C. E	Houston.
Isbell, C. A	M. E	Pankey.
Japhet, Wm. Ernest	C. E	Houston.
Jones, J. M	M. E	Oklahoma City, O.T.
Kaulbach, A. H	C. E	LaGrange.
Knolle, K. C	Agr.	Industry.
Korff, W. A	Agr.	Shelby.
Kunitz, R	C. E	Cuero.
Kyle, J. Irvin	C. E	Nursery.
Langlois, Geo. C	C. E	Beaumont.
Ligarde, F. H	C. E	Laredo.
Lillard, W. W	M. E	Fairfield.
Lipscomb, B	Agr.	Grapevine.
Lockman, J. A	C. E	Houston.
Lowther, L. D	M. E	Seguin.
Mallory, W. A	M. E	Rock Island.

Name.	Course.	Residence.
Marek, Eddie	C. E.	Brenham.
(Graduate Brenham High School.)		
Marwilsky, M. H.	C. E.	Merit.
(Graduate Henderson High School.)		
Matlock, A. E.	Agr.	Henderson.
Maxwell, J. Worth	M. E.	Austin.
Meek, Robt.	M. E.	Arcadia.
Moser, C. Otto	Agr.	Dallas.
McCormick, Alexis	C. E.	Weimar.
McCutcheon, J. W.	C. E.	Rices Crossing.
McFaddin, W. Val	Agr.	Beaumont.
McKay, W. H.	C. E.	O'Daniel.
Olsen, O.	M. E.	Boyce.
Pape, G. H.	C. E.	Marlin.
Patterson, Joel	C. E.	Rices Crossing.
Peden, Leo T.	C. E.	Timpson.
Rascoe, W. P., Jr.	Agr.	Coleman.
Rees, S. Ernest	M. E.	Kerrville.
Reiger, G. G.	M. E.	Midland.
Rogers, O. C.	C. E.	Center.
Rubenkoenig, Harry	M. E.	Graham.
Sanders, C. F.	M. E.	Coleman.
Schroeder, E. F.	Agr.	Industry.
Simonds, F. H.	C. E.	Austin.
Skaggs, Ernest	M. E.	Georgetown.
Stallcup, J. F.	C. E.	Dublin.
Stinson, Varner L.	C. E.	Durant.
Stockard, Willett	C. E.	Santa Anna.
(Graduate Santa Anna High School.)		
Stone, H. L., Jr.	C. E.	Corsicana.
(Graduate Corsicana High School.)		
Storey, Boude	M. E.	Oak Cliff.
Summers, Seth M.	M. E.	Crawford.
(Graduate Crawford High School.)		
Tarver, Tom C., Jr.	C. E.	Houston.
Taylor, Paschal B.	C. E.	Austin.
Teller, Clinton	M. E.	Henderson.
Thompson, Glen	C. E.	Greenville.
Trent, H. R.	Agr.	Baird.
Vernor, W. H.	C. E.	Lampasas.
Vick, John C.	M. E.	Bryan.
Walker, H. F.	M. E.	Rosedale.
Wheeler, A. C.	Agr.	Anchorage.
Yager, Robt. W.	Agr.	McKinney.
Yocom, Jay	Agr.	Denison.

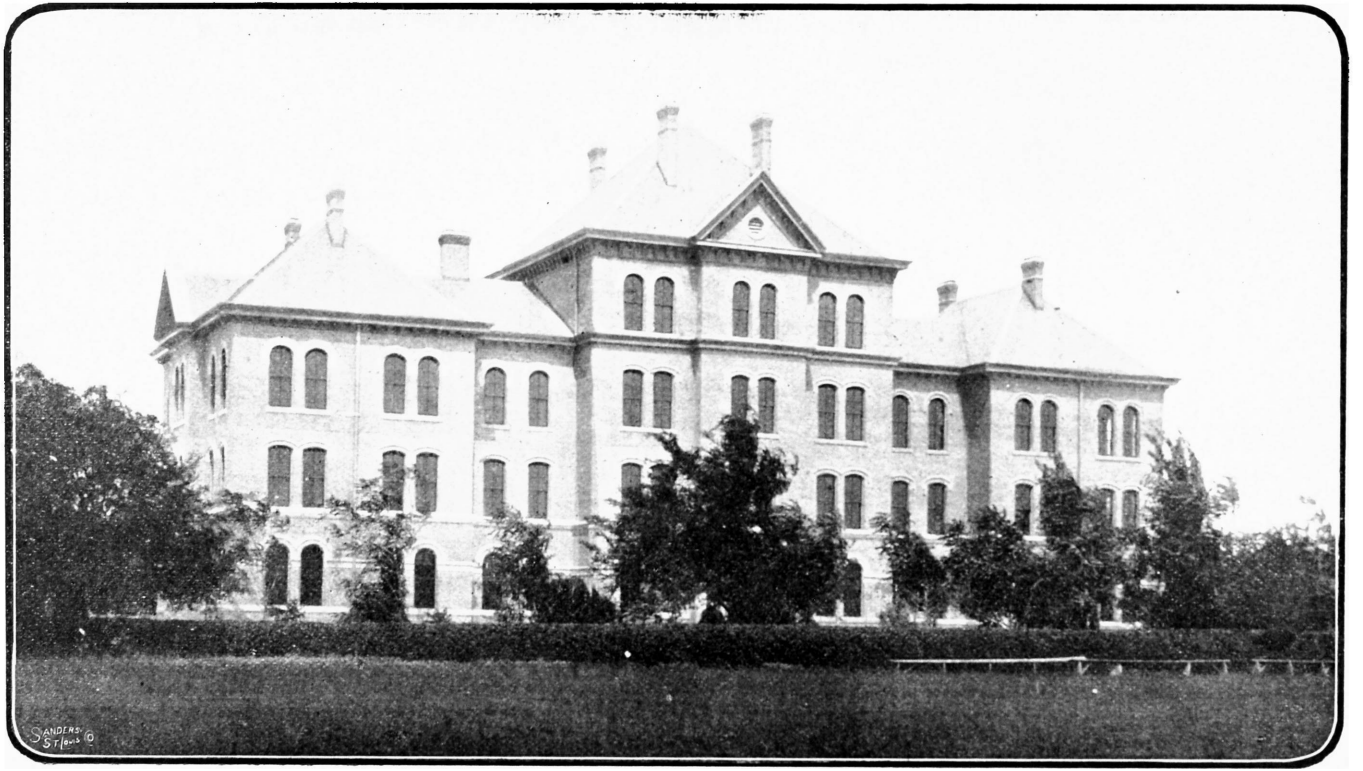
FOURTH CLASS.

Name.	Course.	Residence.
Acker, Earl	Agr.	Lampasas.
Adkisson, Bennie	Eng.	Sulphur Springs.
Allen, C. F.	Agr.	Dallas.

Name.	Course.	Residence.
Ander, Hans F	Agr.	Ander.
Bailey, A. M	Agr.	Karnes City.
Ballard, L. L	Agr.	Luling.
Barnitz, Harry	Agr.	San Antonio.
Becker, Adolph	Agr.	Brenham.
Beeman, Del	Eng.	Comanche.
Bethel, Will V	Agr.	Bryan.
Bettis, Roy	Agr.	Orange.
Bishop, M. J	Agr.	Smithville.
Blanchard, H. C	Eng.	Hillsboro.
Blocker, F	Agr.	Marshall.
Blount, E. S	Agr.	Nacogdoches.
Blount, R. P	Agr.	Nacogdoches.
Blount, T. W	Agr.	San Augustine.
Booth, E. S	Agr.	Austin.
Boyce, C. W	Eng.	Charco.
Brinkman, Herbert	Agr.	Comfort.
Brown, Z. N	Agr.	Watt.
Browning, Roy	Agr.	Seymour.
Bryan, David	Agr.	Damon.
Bryan, G. H	Agr.	Houston.
Bryant, J. R	Eng.	Moody.
Bryson, Chas. H	Agr.	Comanche.
Bryson, Will C	Agr.	Comanche.
Bucklin, J. H	Eng.	Beaumont.
Buehring, A	Agr.	Welcome.
Burney, R. L	Agr.	Amphion.
Burch, H. C	Agr.	Rogansville.
Burton, Ralph M	Eng.	Hope, Ark.
Buttner, R. H	Agr.	Mexico City, Mex.
Cade, A. G	Agr.	Houston.
Cameron, Archie	Agr.	Liberty.
Carlton, F. M	Agr.	Velasco.
Carmichael, John F	Eng.	Bandera.
Carter, Albert	Agr.	Manchester.
Catron, Robt	Agr.	Orange.
Cawthon, Robt	Agr.	Houston.
Clark, Gilbert H	Agr.	Dallas.
Clymer, W. E	Agr.	Denison.
Cobolini, Julius A	Eng.	Rockport.
Cobolini, Joseph L	Eng.	Rockport.
Cocke, S. T	Eng.	Buda.
Cockrill, Lawrence	Eng.	Flatonia.
Cole, Geo. C	Eng.	Dallas.
Corby, Walter C	Agr.	Fredericksburg.
Corder, Theo	Agr.	Menardville.
Cottingham, J. U	Agr.	Opalousas, La.
Cruse, J. T	Agr.	Woodville.
Cupp, L. A	Agr.	Monterey.
Day, E. L., Jr	Agr.	Brenham.
Dean, F. O	Eng.	Wichita Falls.

Name.	Course.	Residence.
Dennis, D. L.	Eng.	Houston.
Denson, T. N.	Agr.	Granger.
Dibrell, Will C.	Agr.	Coleman.
Dodd, Marvin	Agr.	Detroit.
Drinkard, J. M.	Agr.	Kirk.
Dudley, Addison	Agr.	Alvin.
Duncan, R. E.	Agr.	San Antonio.
Dunning, Henry W. T.	Agr.	Eddy.
Durst, Bruno L.	Eng.	Leona.
Eckhardt, Albert L.	Agr.	Rheingold.
Ehlers, Victor	Eng.	LaGrange.
Ernst, F. C.	Agr.	Stamp.
Evans, E. C.	Agr.	Kildare.
Farmer, H. B.	Eng.	Columbus.
Farrier, Rufus S.	Agr.	Dalby Springs.
Flato, E. F.	Agr.	Shiner.
Fleischer, G. C.	Agr.	Rock Springs.
Foster, J. Lossie	Agr.	College Station.
Gandy, John	Agr.	Cameron.
Garnett, J. H.	Agr.	Greenville.
Glass, W. V.	Agr.	Franklin.
Gorman, J. E.	Agr.	DeLeon.
Graves, F. H.	Eng.	Rockdale.
Grayson, E. B.	Agr.	Marquez.
Gregg, R. E., Jr.	Agr.	Montgomery.
Griffith, J. L.	Agr.	Ad Hall.
Gwyn, Jas. S.	Agr.	Houston.
Hackney, J. G.	Eng.	Burleson.
Hanson, M. C.	Agr.	Brownsville.
Harbert, S. A.	Agr.	Temple.
Hawkins, H. C.	Agr.	Mooreville.
Haynes, S. R.	Eng.	DeLeon.
Hays, J. T.	Agr.	Reagan.
Hauck, Chas.	Eng.	Denison.
Hendricks, Bruce	Agr.	Miles Station.
Henderson, Tom	Agr.	Bryan.
Herring, Lyman	Agr.	Orange.
Higgins, Walter	Agr.	Bastrop.
Hodges, F. H.	Agr.	Sherman.
Hoeflich, C. H.	Agr.	Monterey.
Hoffer, C. W.	Agr.	Kaufman.
Holland, Ira	Agr.	Dallas.
Holland, Reginold	Agr.	Dallas.
Holekamp, L.	Agr.	Comfort.
Halmon, R. V.	Agr.	Houston.
Holzman, W.	Agr.	Italy.
Hooker, J. C.	Agr.	Industry.
Houston, T. M.	Agr.	Oak Forest.
Howard, F. F.	Agr.	Boerne.
Hughes, J. O.	Agr.	Granger.
Johnson, D. D.	Eng.	Sabine Pass.

Name.	Degree.	Residence.
Johnson, Harris	Agr.	Atlanta.
Johnson, R. L.	Agr.	Amarillo.
Johnson, Vilas	Agr.	Atlanta.
Johnson, Wistar	Eng.	Corsicana.
Johnston, J. H., Jr	Agr.	Davenport.
Jones, Anson	Agr.	Mooreville.
Jones, J. A.	Agr.	Richmond.
Jordan, E. A.	Agr.	Oak Cliff.
Joyce, Clem	Eng.	Franklin.
Keefe, W. L.	Eng.	San Luis Potosi, Mex.
Kidd, M. E.	Eng.	Waxahachie.
Kivlen, K. J., Jr.	Agr.	Dallas.
Kowalski, Bernard	Eng.	Brownsville.
Kraulik, Hugo J.	Agr.	Industry.
Krompas, Arthur	Agr.	San Juan Evangelista, Mex.
Kuhn, Harry J.	Agr.	Houston.
Lange, Chas. B.	Eng.	Ballinger.
League, Benton	Eng.	Waco.
Leary, Edgar M.	Agr.	Corpus Christi.
Lee, Gabriel J.	Agr.	Houston.
Lipscomb, Alvin	Agr.	Hubbard.
Lipscomb, Efford	Eng.	Grapevine.
Lockhart, Robert, Jr.	Eng.	Houston.
Lockett, Roy	Agr.	Pittsburg.
Lovett, Jas. L.	Agr.	Longview.
Marburgher, Ben	Eng.	Cistern.
Mantooth, Milton	Agr.	Lufkin.
Martin, S. F.	Agr.	Nacogdoches.
Martin, T. A.	Eng.	Rheas Mill.
Masterson, N. T.	Agr.	Houston.
Masterson, T. S.	Agr.	Houston.
Melton, B. H., Jr	Agr.	Santa Anna.
Melton, W. T., Jr	Agr.	Brownwood.
Meyer, Herman	Agr.	Sealy.
Meyers, E. L.	Agr.	Beaumont.
Millard, Leslie	Agr.	Cameron.
Minear, Sylvia	Agr.	Gonzales.
Moore, R. E.	Agr.	Richmond.
Moore, Sam	Agr.	Wichita Falls.
Morgan, Ernest	Agr.	Hubbard.
Morriss, Wade	Agr.	Lampasas.
Moss, J. D.	Agr.	Jumbo.
Mrnustik, Frank	Agr.	Caldwell.
Muckleroy, Charles	Eng.	Kaufman.
Munro, W. H.	Agr.	Beaumont.
McCombs, Melvorne	Agr.	Dallas.
McFarland, Arthur	Eng.	Rockwood.
McKenzie, Tom	Agr.	Fort Stockton.
Page, Marcellus	Agr.	San Antonio.
Pendleton, David E.	Eng.	Amarillo.
Pinkston, W. E.	Eng.	Corsicana.



FOSTER HALL.

Name.	Course.	Residence.
Putegnat, Wm. H.	Agr.	Brownsville.
Qualtrough, Willie	Agr.	Houston.
Rainey, Rogers	Agr.	Bonham.
Reynolds, W. H.	Agr.	Longview.
Richmond, Robt.	Agr.	Manor.
Robertson, Morris	Agr.	Winnsboro.
Robinson, Bunyan	Agr.	Missouri City.
Ross, J. B.	Agr.	Houston.
Rothe, Arnold A.	Agr.	Hondo.
Routt, Milton L.	Agr.	Chappell Hill.
Russell, Don	Agr.	Pittsburg.
Russell, Geo. D.	Eng.	Curtis.
Sammons, Tom	Agr.	Alvin.
Sarrazin, John	Agr.	Houston.
Schaer, Carl E.	Agr.	Chappell Hill.
Schmid, Ben, Jr.	Agr.	Brenham.
Schneemann, Herman	Agr.	Ozona.
Schow, C. E.	Agr.	Clifton.
Seybold, I. H.	Agr.	Hartley.
Seybold, J. N.	Eng.	Heidenheimer.
Sheckles, L. W.	Agr.	Cameron.
Shelley, J.	Agr.	Plainview.
Shelley, M. W.	Agr.	Plainview.
Shock, K. C.	Agr.	St. Louis, Mo.
Simpson, J. V.	Agr.	Field Creek.
Skeete, R. T.	Agr.	Alvin.
Smith, Albert	Agr.	Fort Worth.
Smylie, J. A.	Agr.	Hale Center.
Stavinoha, Henry	Agr.	LaGrange.
Sternenberg, Paul	Eng.	Buckholtz.
Stewart, Forest	Agr.	Sonora.
Stevens, Fred	Agr.	Liberty.
Storms, A. L.	Agr.	Victoria, Mex.
Storrs, Arthur	Agr.	Granger.
Street, Allen	Agr.	Oklahoma City, O.T.
Street, Joe G.	Agr.	Oklahoma City, O.T.
Suber, J. H., Jr.	Agr.	College Station.
Taylor, W. E.	Agr.	Cooks Point.
Thurman, Zan	Agr.	Milano.
Thweatt, R. E.	Agr.	Jefferson.
Tips, Gus, Jr.	Agr.	Range.
Toliver, B. H.	Agr.	Columbus.
Torrans, W. P.	Agr.	Jefferson.
Turner, Wallace W.	Agr.	Bastrop.
Walden, C.	Agr.	Dickinson.
Washburn, John E.	Eng.	Denison.
Webb, Frank	Agr.	Willow Hole.
Webb, T. T.	Eng.	Vernal.
Wharton, R. Earl.	Agr.	Houston.
Whatley, W. H.	Agr.	Greenville.
Wheeler, L. R., Jr.	Agr.	Stockdale.

Name.	Course.	Residence.
Wickes, John	Eng.	Houston.
Wilson, A. F	Agr.	Houston.
Wilson, Erwin	Agr.	Houston.
Wilson, R. J	Agr.	Fort Worth.
Winn, Dan	Agr.	Santa Anna.
Wright, Alfred A	Agr.	Driscoll.
Wyse, J. T.; Jr	Agr.	Dallas.
Youngblood, T	Agr.	Milano.
Zachry, Shelton	Agr.	Pittsburg.
Zambrano, Augustine	Agr.	Monterey, Mex.
Ziegenhals, Charles A	Agr.	Bastrop.

ELECTIVE STUDENTS.

Name.	Residence.
Beeman, T. R	Comanche.
Butler, Jas. E	Waco.
Coleman, J. J	Albany.
Creath, J. D	Charco.
Dross, Ph	Bellville.
Eichblatt, O. H	Skidmore.
Fletcher, E. S	Temple.
Gray, Frank	Dallas.
Hackney, F. G	Burleson.
Hall, W. N	Bangs.
Heffington, J. H	Richardson.
Holcomb, Bob	Cisco.
Houchins, John F	Hallettsville.
Jackson, John A	Renner.
Jordan, R.	San Antonio.
Maedgen, Chas. E	Troy.
Mixson, Edgar	Bruceville.
Myer, Sewal	Houston.
McMillan, J. M	San Antonio.
Neff, A. J	Donelton.
Sneed, J. E	Fairfield.
Stieler, Walter	Comfort.
Strieber, C. A	Yorktown.
Vernon, J. C	Lampasas.
Weatherby, E. P	
Wren, M. M	San Marcos.

SPECIAL STUDENTS.

Browne, R. S	Sutherland Springs.
Cartwright, A. S	West.
Dickerson, Ernest	Renner.
Graves, F. R	Rockett.
Holland, W. C	Beaumont.
Lucy, C. G	Austin.
Peck, G. R	Webster.
Rees, J. A	Kerrville.
Robertson, M. O	College Station.

STUDENTS IN SHORT WINTER COURSE.

Name.	Course.	Residence.
Bohls, G. W.	Agr.	Pflugerville.
Elder, J. M.	Agr.	Karnes City.
Foster, H. I.	Hort.	College Station.
Glass, W. L.	Agr.	Hearne.
Miller, D. B.	Agr.	Mathis.
Schattenberg, A. C.	Hort.	Boerne.
Timmerman, H. F.	Agr.	Hutto.
Turner, Archie	Agr.	Bowie.
Wescott, F. E.	Hort.	Carlsbad, N. M.

SUMMARY.

Post Graduates	3
First Class	33
Second Class	57
Third Class	112
Fourth Class	218
Students in Elective Courses	26
Students in Special Courses	9
Students in Short Winter Courses	9
Total	467

OBJECT AND POLICY.

The act of Congress which established the State Agricultural and Mechanical Colleges defines their objects, but under the act there have been founded as many different schools as there are States. These institutions have presented a variety of educational schemes, which have embraced nearly all gradations, from the classical and mathematical college to the manual labor industrial school. In view of this fact, it is proper to state as definitely as possible the interpretation given to the act of Congress by the authorities of this College, and the manner in which they are endeavoring to carry out its provisions.

This College purposes to equip young men for their future career by the development of their powers with reference to the wants of life, and to impress upon them the dignity, the nobility, and the duty of labor.

There is in our State a great field and a growing demand for the services of those fitted for work in every branch of applied science, and we are now compelled to draw upon other States to fill the most lucrative, honorable, and important positions in every industrial enterprise.

It is proposed to meet these conditions by offering our young men the opportunity to obtain that education and training which will fit them to take a leading part in the material development of the State; to become scientific farmers and horticulturists, familiar with the properties and needs of soils, the laws of plant growth, the principles of breeding, and, in general, with rational methods based on the revelations of modern science; to become mechanical engineers, draughtsmen, chemists, civil engineers competent to fill responsible positions in these callings—men fitted not only to meet demands made upon them, but to create such demand by pointing the way to progress and development.

Care is taken, also, that the student, while engaged in such special studies, shall give a due part of his time to those more general forms of knowledge which are essential to a liberal education and mark the well-informed citizen in every walk of life.

The military feature is an important adjunct to the other work of the College. It is conducive to health and to bodily grace and strength, and cultivates habits of strict attention and of obedience, punctuality, neatness, and regularity.

METHOD AND SCOPE OF INSTRUCTION.

The courses of instruction are designated in accordance with the above outline of objects and policy. In all of them the fundamental idea is education in practical science, particularly in agriculture, in horticulture, in mechanical engineering, and in civil engineering. With this idea in view, instruction is given in English and history, mathematics, foreign languages, physics, chemistry, and in other studies which lie at the foundation of a sound education and furnish the best preparation for the more technical studies of the several courses. Instruction is given by the use of text-books, by lectures and recitations; also, by practice in shop, field, laboratory, and drawing room. These practical exercises have a high educational value, and serve a useful purpose in fixing and rendering clear the ideas presented in the class room; and they have also a practical value, for they are, in great measure, examples of just such problems as the scientific agriculturist, or engineer, will encounter in the pursuit of his calling. For convenience of instruction, the classes are subdivided into sections of suitable size. There are written examinations at such intervals as may be deemed best.

INFORMATION CONCERNING ADMISSION.

BEGINNING OF THE SESSION.

The twenty-seventh annual session will open Wednesday, September 10, 1902, and will close Tuesday, June 9, 1903.

Students should not arrive at the College earlier than Monday, September 8. Parents are requested to communicate with the President before sending their sons.

REQUIREMENTS FOR ADMISSION.

To enter the College, an applicant must be at least sixteen years old and physically able to perform the duties of a cadet. He must be free from contagious or infectious disease and must furnish evidence that he has recently been vaccinated or be vaccinated before entrance. He may be required to furnish evidence that he has not been dismissed from another institution of learning, and that his moral character is good.

Applicants for admission will be examined upon the subjects stated below. The treatment of the several subjects given in the text-books indicated, or their equivalents, is sufficient for the purpose of these examinations:

Fourth Class, Agricultural Course:

1. Arithmetic, complete. (*Sutton* and *Kimbrough's* Higher Arithmetic.)
2. Elementary English Grammar and Composition. (*Whitney* and *Lockwood.*)
3. History of Texas. (*Mrs. Pennybacker.*)
4. History of the United States. (*Mrs. Lee.*)
5. Geography. (*Maury.*)

Third Class, Agricultural Course:

1. The subjects stated above for Fourth Class.
2. Algebra to theory of exponents. (*Wells'* Higher Algebra.)
3. Advanced Grammar and Composition. (*Lockwood* and *Emerson.*)
4. Ancient History. (*Myers.*)
5. In addition, book No. 5 of *Thompson's* Free-hand Drawing must be made up after admission.

Second Class, Agricultural Course:

Applicants for Second Class will be examined on the subjects gone over by the Fourth and the Third Classes; but they may be admitted conditionally if they fail in not more than three subjects, equivalent, together, to eight hours per week for one term.

Fourth Class, Engineering and General Science Courses:

1. Arithmetic, complete. (*Sutton* and *Kimbrough's* Higher Arithmetic.)
2. Algebra to theory of exponents. (*Wells.*)
3. Advanced English Grammar and Composition.
4. History of Texas. (*Mrs. Pennybacker.*)
5. History of the United States. (*Mrs. Lee.*)
6. Geography. (*Maury.*)

Third Class, Engineering and General Science Courses:

1. The subjects stated above for Fourth Class.
2. The subjects gone over by the Fourth Class.

ENTRANCE EXAMINATIONS LATER IN THE SESSION.

The above requirements apply to candidates for admission at the opening of the session. Those who come later will be examined, also, upon the work already gone over by the class they propose to enter.

AFFILIATED SCHOOLS.

Graduates of schools approved by the Faculty will be admitted on diploma or certificate at the beginning of the session without examination. They must, however, conform to the requirements in regard to age and physical development stated above; and must present their diplomas within fifteen months after they are issued. For list of affiliated schools see page 8.

SPECIMEN ENTRANCE EXAMINATIONS.

(For the beginning of the session.)

Special attention is called to the following specimen entrance examinations. Young men intending to apply for admission are urged to satisfy themselves by actual trial before coming to College that they can answer such questions.

Arithmetic (Sutton and Kimbrough's Higher Book, or the equivalent) (for Fourth Class, all courses).

1. Reduce to fractions having the least common denominator, and add $\frac{5}{12}$, $\frac{9}{14}$, $\frac{8}{77}$.
2. Divide $17\frac{1}{3}$ by $2\frac{4}{7}$ and multiply the quotient by $5\frac{2}{9}$.
3. Reduce to a simple fraction $\frac{8\frac{2}{3}-4\frac{7}{8}}{3\frac{3}{4}\times 3\frac{1}{3}}$.
4. If $\frac{2}{3}$ of a farm is worth \$7200 what is the whole farm worth?
5. Reduce to decimals and add $\frac{4}{5}$, $\frac{9}{25}$, $\frac{5}{16}$, $\frac{3}{50}$.
6. Multiply 361.24 by 3.256 and divide the product by 81.4.
7. What will 7 bu. 3 pk. 4 qt. nuts cost at \$1.20 per peck?
8. The population of a county grew from 15,800 to 18,012; what was the increase *per cent?*
9. If by selling land at \$36 per acre I lose 25%, at what price should I sell it in order to gain 40%?
10. What per cent. on the investment is yielded when 6% bonds are bought at 120?
11. Find the interest at 8% on \$425 for 2 years, 5 months, 18 days.
12. How long must \$450 remain at interest at 6% in order to yield \$94.50 interest?
13. A. B. and C. engage in trade; A. investing \$840, B. \$760, and C. \$1200; the profits amount to \$560; what should be the share of each?
14. What is meant by centimeter? Express your height and your weight in units of the metric system.

Algebra to Theory of Exponents (for Fourth Class Engineering and General Science Courses and Third Class Agricultural Course).

1. Find the factors of a^4-16, a^3+c^3, $a^2+8a-20$.

2. Find the highest common factor and the lowest common multiple of a^3-x^3, $5a^3-10a^2x+5ax^2$ and $3a^2-3x^2$.

3. Simplify $\frac{2}{x} - \frac{3}{2x-1} - \frac{2x-3}{4x^2-1}$.

4. Divide $\frac{x^3-25x}{x^2+x-6}$ by $\frac{x^2-5x}{x^2-4x-28}$, giving the result in its simplest form.

5. Given $\frac{x-5}{4} - \frac{2x-y-1}{3} = \frac{2y-2}{5}$ and $\frac{2y+x-1}{9} = \frac{x+y}{4}$, find the values of x and y.

6. Find the square root of $10x^2-4x^3+9-12x+x^4$.

English (for Fourth Class, Agricultural Course).

Name the parts of speech. Write a sentence containing an adverb, an adjective and a pronoun.

What is a preposition?

Write a sentence containing a conjunction and an interjection.

Write the feminine nouns that are formed from the following: tiger, duke, master.

Write the plurals of the following nouns: calf, grass, house, ox, cargo, cliff, money, enemy.

Write a sentence containing the word brother-in-law in the possessive case.

Give the classes of pronouns.

Write a sentence containing a relative pronoun.

Decline, it, he, thou.

In the sentence, "I know which book she will choose," parse *which*.

Write a sentence containing the demonstrative adjective *that*.

Compare the following adjectives: sure, little, bad, old, rough, comfortable.

What is the difference between a transitive and an intransitive verb?

Inflect the present indicative of smite, spin, fly, sit.

Inflect the past indicative of go, lay, sit, buy.

Give the principal parts of do, see, set, lay.

Advanced Grammar (for Fourth Class Engineering and General Science Courses and Third Class Agricultural Course).

Mention the four principal uses or constructions of the noun.

In the sentence "We footed it through the woods," explain the use of *it*.

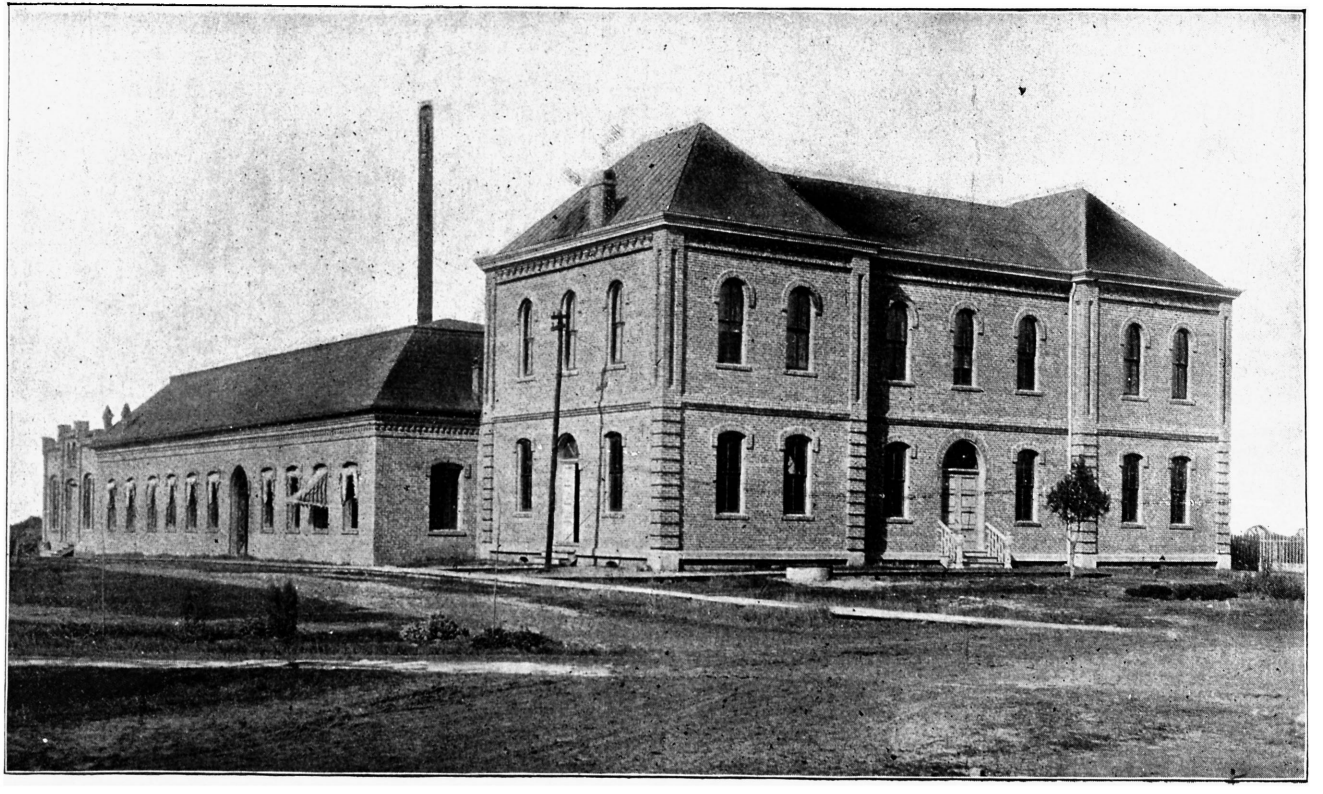
In the sentence "Now I lay me down to sleep," explain the use of *me*.

In the sentence "I love such as love me," parse *as*.

Write a sentence containing an indirect object.

What is a phrase? What is a participle?

Write a sentence containing the infinitives and participles of the following verbs: sing, play, shoot, pass, stand.



MECHANICAL ENGINEERING BUILDING.

Write a synopsis of the active forms of the verb *do*.
Write a synopsis of the passive forms of the verb *see*.
What is the difference between prepositions and conjunctions?
What is the difference between analysis and parsing?
Write a sentence containing a noun clause.
Write a sentence containing a phrase used as an adverb.

In the following sentences, parse the italicized words:

The pole is ten *feet* long.
Who made him *umpire?*
He giveth his *beloved* sleep.
Flee from the wrath *to come.*
The wind goes *whistling* through the trees.

Analyze the following sentences:

Who steals my purse steals trash.
Winter coming on, the troops were disbanded.
The fact that he said it, needs no proof.
Love thy neighbor as thyself.
The sun shines bright.
I slept and dreamed that life was Beauty,
I woke and found that life was Duty.

History (for Fourth Class, all courses).

1. Who commanded the English fleet that first sighted the shores of North America?

2. When was the settlement at Jamestown made, and into what colony did it grow?

3. What battle gave General Gates a great reputation?

4. What battle lost him his reputation, and what foreign officer in the Continental service was slain there?

5. What foreigner in the American service fell at the siege of Savannah?

6. What British cavalry leader was defeated and slain at King's Mountain?

7. What battle was fought after the War of 1812 was over? What general won it?

8. What two American generals led armies into Mexico in the war of 1848?

9. Who was John Brown of Ossawatomie, and what did he try to do?

10. Who captured John Brown, and what was done with the prisoner?

11. Who was in command of the Confederates when they fired on Fort Sumter?

12. Who was in command of the Federals at the first battle of Manassas?

13. Why was Gen. Joseph E. Johnston relieved of the command of the army in Virginia?

14. What Confederate general rode all around McClellan's army in the Peninsula?

15. What battle did Lee fight in Maryland? Against what general?

16. Who fought Lee at Fredericksburg? What famous heights were assaulted in vain?

17. What brilliant exploit did Magruder achieve in Texas?

18. What battle did Lee fight in Pennsylvania? Who led the Federals there?

19. Who surrendered Vicksburg? To whom did he surrender?

20. Where was there a terrible mine explosion during the Civil War?

History (for Third Class, all courses).

1. Who began the movement for the expulsion of the Hyksos from Egypt?

2. With what troops did Psammetichus I drive the Assyrians from Egypt?

3. Describe the writing of the Egyptians. Also that of the Chaldeans.

4. What was the value of the Rosetta Stone to students of history? What was that of the Rock of Behistun?

5. Who took Samaria and carried the Ten Tribes of Israel into captivity?

6. Who took Jerusalem and carried the Jews into Babylonia?

7. What two battles did the Greeks win over the Persians the year after Salamis?

8. Who persuaded the Athenians to undertake the Sicilian expedition?

9. In what battle did Philip of Macedon overthrow the liberties of the Greeks?

10. Where did the Gauls first meet and defeat the Romans?

11. Who came to the aid of the Tarentines against the Romans?

12. Who invented the drawbridge with beak, which enabled the Romans to defeat the Carthaginians at Malæ and Ecnomus?

13. What four battles did Hannibal win in Italy?

14. Who long foiled every effort of Marcellus to take Syracuse?

15. In what battle was Hannibal's brother, Hasdrubal, defeated and slain?

16. What Marian leader long held out in Spain against Rome?

17. What new imperial system did Diocletian establish?

18. What general again and again saved Rome from the Teutonic invaders?

19. What did the Goths do with the body of their leader, Alaric?

20. What caused the settlement of Venice on the eve of the downfall of the Western Empire?

MATRICULATION.

Upon arrival at the College, young men intending to enter will report as soon as possible to the President of the College. From him they will go to the several professors for examination and enrollment in classes, and to the Commandant for assignment to company and quarters.

Upon matriculation, every student shall sign the following pledge: "I hereby agree that I will keep in my possession no firearms or other deadly weapons, but that I will deposit with the President, as soon as possible, any that I now have, or that may be sent to me."

EXPENSES FOR SESSION OF NINE MONTHS.

Trust fund, payable on entrance	$ 5 00
Incidental fee, payable on entrance	5 00
Medical fee, payable on entrance	5 00
Maintenance, Fall Term, payable September 10	50 00
Maintenance, Winter Term, payable January 5	35 00
Maintenance, Spring Term, payable March 16	40 00
Total	$140 00

The trust fund is to pay for property damaged or destroyed, and will be refunded if there is no charge of this kind against the student.

Incidental and medical fees will in no case be refunded.

Maintenance includes board, fuel, washing, lights, room rent, single bedsteads, mattresses, pillows, tables, washstands, chairs, buckets, basins, and slop cans, all of which the College furnishes.

Each student is required to bring with him and keep on hand two pairs of sheets, two pillow cases, two blankets, one comfort, one-half dozen towels, and underclothing sufficient for one year's wear. For winter he should provide himself with an overcoat or mackintosh.

Students are required to take their meals at the Mess Hall.

Payment for each term must be made in advance, but a student entering during a term will be charged maintenance for the remainder of that term only.

A student once entering for the term, and having paid for that term, or the balance of it, as required by the resolution of the Board of Directors, shall forfeit all claim to said payment in case of voluntary withdrawal from the College before the expiration of said term, except in case of

sickness disqualifying him for the discharge of his duties for the rest of the term.

Expenses of a graduate student will be $15 for material used in laboratories and practical work, and $5 for medical fees, with charge for maintenance as above. Day students pay $15, as trust fund, incidental fee, and medical fee, as above.

If, on any account, the prompt payment of the dues should be delayed, the President will mail to the parent or guardian of the student the following notice:

"NOTICE TO PARENTS AND GUARDIANS.

"Your attention is respectfully directed to the following resolution passed by the Board of Directors of the Agricultural and Mechanical College of Texas:

" '*Resolved,* That it shall be the duty of the Treasurer to notify parents and guardians, ten days after the date upon which a term payment is due, that if same is not paid within twenty days thereafter (thirty days from time the payment was due), the student so in arrears will be dismissed.

" 'Payment due.....19.. Notice sent.....19..

" 'Limit expires .....19..'

"All communications in reference to accounts of students should be addressed to the President of the College."

UNIFORMS AND BOOKS.

A neat uniform of cadet gray, blouse, trousers, and cap, is furnished here, at a cost of from $15.50 to $18. Straight white standing collars that lap in front, black ties, white cuffs, and black shoes are a part of the uniform.

For drill during hot weather, a blue flannel shirt, with belt, to be worn instead of blouse, and campaign hat instead of cap will be required.

Each student must also have, for shop and field practice, a working suit of drilling, which costs about $1.50.

With the exception of the collars, cuffs, ties, and shoes, these uniforms are made by contract, and students are required to purchase from the contract tailor in order that uniformity may be secured in the cut and quality of the clothing and that parents may be protected from imposition by irresponsible persons. The contract suits are carefully inspected by the Commandant of Cadets, and thus the full value of money expended for them is secured.

The College keeps a supply of books, and sells them to students at cost. The approximate cost of text-books for the Fourth Class is $9.50; for the Third Class, $11.00; for the Second Class, $14.50; for the First Class, $17.50.

STUDENT LABOR.

The Legislature has provided a fund by which a limited number of industrious young men may defray a part of their expenses by working for the College at such times as their regular duties will permit.

The rate of pay is made to depend upon the character of the work, and the manner in which it is performed.

Every student, however, should bring with him money enough to defray his expenses for the first three months.

EXPULSIONS.

At a joint session of the Board of Regents of the University of Texas and the Board of Directors of the Agricultural and Mechanical College, held at College Station, Texas, from June 30 to July 1, 1896, the following order was made:

"It is ordered, that hereafter, when any student shall be dismissed or expelled from either of the branches of the University of Texas on account of any immoral or other conduct which shall render him an unfit character to be matriculated in any of such branches, it shall thereupon be the duty of the branch so expelling or dismissing such student to immediately notify the other branches of their action, whereupon such other branches shall refuse to receive such student for matriculation, or even for examination, should he apply therefor, until the branch which has so expelled or dismissed him has rescinded or reconsidered its former action, and recommended such student for admission into such other branch at which he may apply."

REGULAR COURSES OF INSTRUCTION.

The regular courses of study extend through four years, and lead to the degree of Bachelor of Science, the particular course pursued being specified in the diploma. A tabulated statement of the studies of each course is found under the head "Curricula," beginning on page 34. For a full explanation of the work done in the several departments of instruction, their equipment and methods of instruction, see pages 51 to 71.

THE AGRICULTURAL COURSE.

This course gives a practical and scientific training in agriculture in its various branches. Special reference is made in the application of principles to the soil and climatic conditions peculiar to the Southwest. A liberal education is also given in the English language, history, mathematics, and the sciences of chemistry, physics, botany, and animal anatomy and physiology.

The scientific principles underlying the growth and management of general farm crops, beef and pork, dairy herds, orchards, vineyards, and truck farms, and the application of these principles in this latitude, are thoroughly taught. Stock farming and rearing, the manufacture of butter and cheese, irrigation and drainage of field, garden, and orchard, the effects of forests and windbreaks upon climate, and the art of beautifying our American homes, are taught practically.

While this course provides a well rounded education, a special feature is made of preparing young men for the management of farms, ranches, breeding establishments, dairies, orchards, vineyards, and truck farms of the State. Students are also well prepared for taking advance courses leading to the professions of scientific agriculture and horticulture.

In the First Class (fourth year), English and either agriculture or horticulture are required, and all other related studies are left optional with the student, so that he may specialize in that particular line of study in which he is most interested.

MECHANICAL ENGINEERING COURSE.

The object of the course in Mechanical Engineering is to educate the student not merely to become a mechanic, but also to enable him to take charge of men and tools, erect machinery, lay out plans, etc., with the minimum amount of further preparation. This necessitates a study not only of engineering problems, but also demands a broad foundation of

useful knowledge, and a training which leads as much as possible to originality in thought and quick perception of the objects sought. With this in view, the subjects studied in this course are carefully selected.

CIVIL ENGINEERING COURSE.

This course is intended to prepare young men for entrance upon professional practice and advanced study in some of the many branches included in the scope of Civil Engineering; to enable the graduate to survey and map areas; to locate, construct and maintain highways, railroads, streets, pavements, water-works systems, sewerage systems, canals, dams, irrigation ditches, bridges, and other structures; to become draughtsmen; and, in fact, to enter upon the advanced study necessary for almost any one of the special lines embraced in the work of the Civil Engineer.

COURSE IN GENERAL SCIENCE.

The course in General Science is designed for those who desire a collegiate education having for its leading feature instruction in practical science, supplemented by work in English, foreign languages, history, mathematics. In this course, the entrance requirements and the studies for the Fourth Class are identical with those of the engineering courses. In the Third Class instruction is given in mathematics, history, English, French or German, botany, physiology; with practice in botany, physiology, bookkeeping. In the Second Class, English, French or German, chemistry, and drill regulations are required studies, and the student must elect work amounting to at least five periods per week from the following: mathematics, history, Spanish or Latin, physics, electricity and magnetism, descriptive geometry, botany, entomology, comparative anatomy, surveying; with practice amounting to eight hours per week in subjects conforming to recitation work. In the First Class, chemistry, geology, military science, are required subjects, and the student must elect work amounting to at least fourteen periods per week from the following: mathematics, French or German, Spanish or Latin, English, history, mental science, descriptive astronomy, botany, chemistry, entomology, veterinary science; with practice amounting to eight hours per week in subjects conforming to recitation work. This course will be open next year to none but those entering the Fourth and Third Classes.

ELECTIVE STUDIES.

Elective studies in the regular courses must be chosen in *conformity to the regular schedule;* the selection in each case to be subject to the approval of the Committee on Elective Courses and of the heads of

departments concerned. Elective work is *practice* must conform to recitation work.

The student must hand to the chairman of the Committee on Elective Courses on *the first day of each term* a card, properly signed, containing a complete statement of his work and practice.

No elective study may be discontinued before completion.

PRESIDENT'S RESIDENCE.

CURRICULA.

The subjects embraced in these courses are shown in detail on the following pages; the numerals indicate the number of hours per week; practice and work are indicated by *italics*. The numerals in parenthesis indicate the totals in recitations, and in practice work. Elective studies must be chosen in conformity to the regular schedule. Elective work in *practice* must be chosen in conformity to recitation work.

For list of text-books, see page 42.

AGRICULTURAL COURSE.

FOURTH CLASS.

FALL TERM.

Algebra	5	
English	5	
History	3	
Breeds of Stock	5	–(18)
Practice—		
Breeds of Stock	2	
Drawing	3	
Bookkeeping	3	
Military Drill	3	–(11)

WINTER TERM.

Algebra	5	
English	5	
History	3	
Elementary Botany	5	–(18)
Practice—		
Drawing	3	
Bookkeeping	5	–(8)

SPRING TERM.

Algebra	5	
English	5	
History	3	
Elementary Botany	2	
Plant Culture	3	–(18)
Practice—		
Drawing	3	
Bookkeeping	3	
Plant Culture	2	
Military Drill	3	–(11)

GENERAL SCIENCE COURSE.

FOURTH CLASS.

FALL TERM.

Mathematics	5	
English	5	
History	5	
Physics	4	–(19)
Practice—		
Shop	4	
Drawing	4	
Military Drill	3	–(11)

WINTER TERM.

Mathematics	5	
English	5	
History	5	
Physics	4	–(19)
Practice—		
Shop	4	
Drawing	4	–(8)

SPRING TERM.

Mathematics	5	
English	5	
History	5	
Physics	4	–(19)
Practice—		
Shop	4	
Drawing	4	
Military Drill	3	–(11)

CIVIL ENGINEERING COURSE.

FOURTH CLASS.

FALL TERM.

Mathematics	5	
English	5	
History	5	
Physics	4	–(19)
Practice–		
Shop	4	
Drawing	4	
Military Drill	3	–(11)

WINTER TERM.

Mathematics	5	
English	5	
History	5	
Physics	4	–(19)
Practice–		
Shop	4	
Drawing	4	–(8)

SPRING TERM.

Mathematics	5	
English	5	
History	5	
Physics	4	–(19)
Practice–		
Shop	4	
Drawing	4	
Military Drill	3	–(11)

MECHANICAL ENGINEERING COURSE.

FOURTH CLASS.

FALL TERM.

Mathematics	5	
English	5	
History	5	
Physics	4	–(19)
Practice–		
Shop	4	
Drawing	4	
Military Drill	3	–(11)

WINTER TERM.

Mathematics	5	
English	5	
History	5	
Physics	4	–(19)
Practice–		
Shop	4	
Drawing	4	–(8)

SPRING TERM.

Mathematics	5	
English	5	
History	5	
Physics	4	–(19)
Practice–		
Shop	4	
Drawing	4	
Military Drill	3	–(11)

AGRICULTURAL COURSE.

THIRD CLASS.

FALL TERM.

Algebra	5	
English	4	
History	3	
Botany	4	
Physics	3	–(19)
Practice—		
Soil Physics	2½	
Botany	2½	
Free-hand Drawing	2	
Physics	2	
Military Drill	3	–(12)

WINTER TERM.

Geometry	5	
English	4	
History	3	
Physics	3	
Truck Farming	4	–(19)
Practice—		
Truck Farming	2½	
Mechanical Drawing	2½	
Physics	2	
Carpentry	4	–(11)

SPRING TERM.

Geometry	5	
English	4	
History	3	
Botany	2	
Stock Judging	4	
Physiology	2	–(20)
Practice—		
Botany	5	
Blacksmithing	4	
Military Drill	3	–(12)

GENERAL SCIENCE COURSE.

THIRD CLASS.

FALL TERM.

Mathematics	5	
English	4	
History	3	
Language, French or German	3	
Botany	4	–(19)
Practice—		
Bookkeeping	3	
Botany	2½	
Military Drill	3	–(8½)

WINTER TERM.

Mathematics	5	
English	4	
History	3	
Language, French or German	3	
Physiology	4	–(19)
Practice—		
Bookkeeping	3	
Physiology	2½	–(5½)

SPRING TERM.

Mathematics	5	
English	4	
History	3	
Language, French or German	3	
Botany	2	
Physiology	2	–(19)
Practice—		
Bookkeeping	3	
Botany	5	
Military Drill	3	–(11)

CIVIL ENGINEERING COURSE.

THIRD CLASS.

FALL TERM.

Mathematics	5	
English	4	
History	3	
Descriptive Geometry	3	
Languages	3	–(18)
Practice–		
Shop and Surveying	5	
Drawing	4	
Military Drill	3	–(12)

WINTER TERM.

Mathematics	5	
English	4	
History	3	
Descriptive Geometry	3	
Languages	3	–(18)
Practice–		
Shop and Surveying	5	
Drawing	4	–(9)

SPRING TERM.

Mathematics	5	
English	4	
History	3	
Languages	3	
Surveying	3	–(18)
Practice–		
Shop and Surveying	5	
Drawing	4	
Military Drill	3	–(12)

MECHANICAL ENGINEERING COURSE.

THIRD CLASS.

FALL TERM.

Mathematics	5	
English	4	
History	3	
Descriptive Geometry	3	
Mechanical Engineering	3	–(18)
Practice–		
Shop and Surveying	5	
Drawing	4	
Military Drill	3	–(12)

WINTER TERM.

Mathematics	5	
English	4	
History	3	
Descriptive Geometry	3	
Mechanical Engineering	3	–(18)
Practice–		
Shop and Surveying	5	
Drawing	4	–(9)

SPRING TERM.

Mathematics	5	
English	4	
History	3	
Surveying	3	
Mechanical Engineering	3	–(18)
Practice–		
Shop and Surveying	5	
Drawing	4	
Military Drill	3	–(12)

AGRICULTURAL COURSE.

SECOND CLASS.

FALL TERM.

Geometry and Trigonometry 3
English 2
Stock Breeding or Fruit Culture 5
Botany 5
Inorganic Chemistry .....4 —(19)

Practice—

Dairying 2½
Botany 5
Analytical Chemistry.....2½
Military Drill .....3 —(13)

WINTER TERM.

Trigonometry 4
English 2
Dairying 3
Inorganic Chemistry.....4
Veterinary Medicine.....2
Drill Regulations 2
Surveying .....3 —(20)

Practice—

Dairying 5
Analytical Chemistry.....5 —(10)

SPRING TERM.

Algebra 3
English 2
Irrigation and Drainage...4
Organic Chemistry.....4
Veterinary Medicine.....2
Grasses 3
Plant Breeding.....2 —(20)

Practice—

Irrigation 2½
Grasses 2½
Zoology 2
Military Drill .....3 —(10)

GENERAL SCIENCE COURSE.

SECOND CLASS.

FALL TERM.

Required.

English.....5
Language, French or German.....3
Chemistry.....4
Drill Regulations 1

Electives.

(Not less than 5.)

Mathematics.....5
History.....3
Language, Spanish or Latin.....3
Physics.....3
Descriptive Geometry.....3
Entomology 5
Comparative Anatomy.....4
Botany 5

Practice—

Required.

Military Drill.....3

Electives.

(Not less than 8.)

Drawing.....4
Chemistry.....2½
Physical Laboratory.....2½
Botany.....5
Entomology.....2½

WINTER TERM.

Required.

English.....5
Language, French or German.....3
Chemistry.....4

Electives.

(Not less than 5.)

Mathematics.....5
History.....3
Language, Spanish or Latin.....3
Physics.....3
Descriptive Geometry.....3
Entomology.....5
Botany.....5

Practice—

(Not less than 8.)

Drawing.....4
Chemistry.....5
Botany.....5
Entomology.....2½

SPRING TERM.

Required.

English.....5
Language, French or German.....3
Chemistry.....4

Electives.

(Not less than 5.)

Mathematics 5
History 3
Language, Spanish or Latin 3
Physics.....3
Entomology.....5
Botany 5
Surveying.....3

Practice—

Required.

Military Drill.. 3

Electives.

(Not less than 8.)

Drawing.....4
Chemistry 4
Surveying.....5
Botany.....5
Entomology.....2½

CIVIL ENGINEERING COURSE.

SECOND CLASS.

FALL TERM.

Geometry and Trigonometry 5
English 1
Sewers and Drains.....2
Inorganic Chemistry.....4
Descriptive Geometry.....5
German or French.....3 —(20)

Practice—
Shop 5
Mechanical Drawing.....4
Military Drill .....3 —(12)

WINTER TERM.

Trigonometry 4
English 2
Surveying 2
Inorganic Chemistry.....4
German or French.....3
Drill Regulations.....2 —(17)

Practice—
Shop 5
Mechanical Drawing.....4 —(9)

SPRING TERM.

Algebra 5
English 1
History 2
Plane and Railroad Surveying 5
Geology 4
German or French.....3 —(20)

Practice—
Mechanical Drawing.....4
Surveying 5
Military Drill .....3 —(12)

MECHANICAL ENGINEERING COURSE.

SECOND CLASS.

FALL TERM.

Geometry and Trigonometry 5
English 1
Slide Valve.....4
Inorganic Chemistry.....4
Descriptive Geometry.....5 —(19)

Practice—
Shop 5
Mechanical Drawing.....4
Military Drill .....3 —(12)

WINTER TERM.

Trigonometry 4
English 2
Graphics 4
Inorganic Chemistry.....4
Drill Regulations.....2 —(16)

Practice—
Shop 5
Mechanical Drawing.....4 —(9)

SPRING TERM.

Algebra 5
English 1
History 2
Machine Design.....5
Metallurgy 5
Kinematic Drawing.....2 —(20)

Practice—
Shop 5
Mechanical Drawing.....4
Military Drill .....3 —(12)

AGRICULTURAL COURSE.

FIRST CLASS.

FALL TERM.

Required Subjects.

Agriculture *or* Horticulture.....5
English.....3

Electives.

(Not less than 8.)

Horticulture *or* Agriculture.....5
Mathematics.....5
History.....3
Language.....3
Chemistry.....4
Veterinary Science.....3

Practice—

Required.

Military Drill.....3

Electives.

(Not less than 8.)

Agriculture.....2½
Horticulture.....5
Chemistry.....5
Drawing.....4
Veterinary Science.....2½

WINTER TERM.

Required Subjects.

Agriculture *or* Horticulture.....5
English.....3
Military Science.....1

Electives.

(Not less than 8.)

Horticulture *or* Agriculture.....5
Mathematics.....5
History.....3
Language.....3
Chemistry.....4
Or Geology.....3
Veterinary Science.....3
Entomology.....5

Practice—

(Not less than 8.)

Agriculture.....5
Horticulture.....2½
Chemistry.....5
Drawing.....2½
Veterinary Science.....2½

SPRING TERM.

Required Subjects.

Agriculture *or* Horticulture.....5
English.....3

Electives.

(Not less than 8.)

Horticulture *or* Agriculture.....5
Mathematics.....5
History.....3
Language.....3
Chemistry.....4
Or Geology.....3
Veterinary Science.....3
Entomology.....5
Botany.....3

Practice—

Required.

Military Drill.....3

Electives.

(Not less than 8.)

Agriculture.....2½
Horticulture.....2½
Chemistry.....5
Drawing.....2½
Veterinary Science.....2½
Botany.....5

Thesis.

GENERAL SCIENCE COURSE.

FIRST CLASS.

FALL TERM.

Required.

Chemistry.....4

Electives.

(Not less than 14.)

Mathematics.....5
Language, French or German.....3
Language, Spanish or Latin.....3
History.....3
English.....3
Descriptive Astronomy.....3
Botany.....2
Chemistry.....4
Entomology.....5
Veterinary Science.....3
Mental Science.....2

Practice—

Required.

Military Drill.....3

Electives.

(Not less than 8.)

Botany.....5
Chemistry.....5
Entomology.....2½
Drawing.....4

WINTER TERM.

Required.

Geology.....3
Military Science.....1

Electives.

(Not less than 14.)

Mathematics.....4
Language, French or German.....3
Language, Spanish or Latin.....3
History.....3
English.....3
Chemistry.....4
Entomology.....5
Veterinary Science.....3
Mental Science.....2

Practice—

(Not less than 8.)

Chemistry.....5
Entomology.....2½
Drawing.....2½

SPRING TERM.

Required.

Geology.....3

Electives.

(Not less than 14.)

Mathematics.....5
Language, French or German.....3
Language, Spanish or Latin.....3
History.....3
English.....3
Botany.....2
Entomology.....5
Veterinary Science.....3
Mental Science.....2

Practice—

Required.

Military Drill.....3

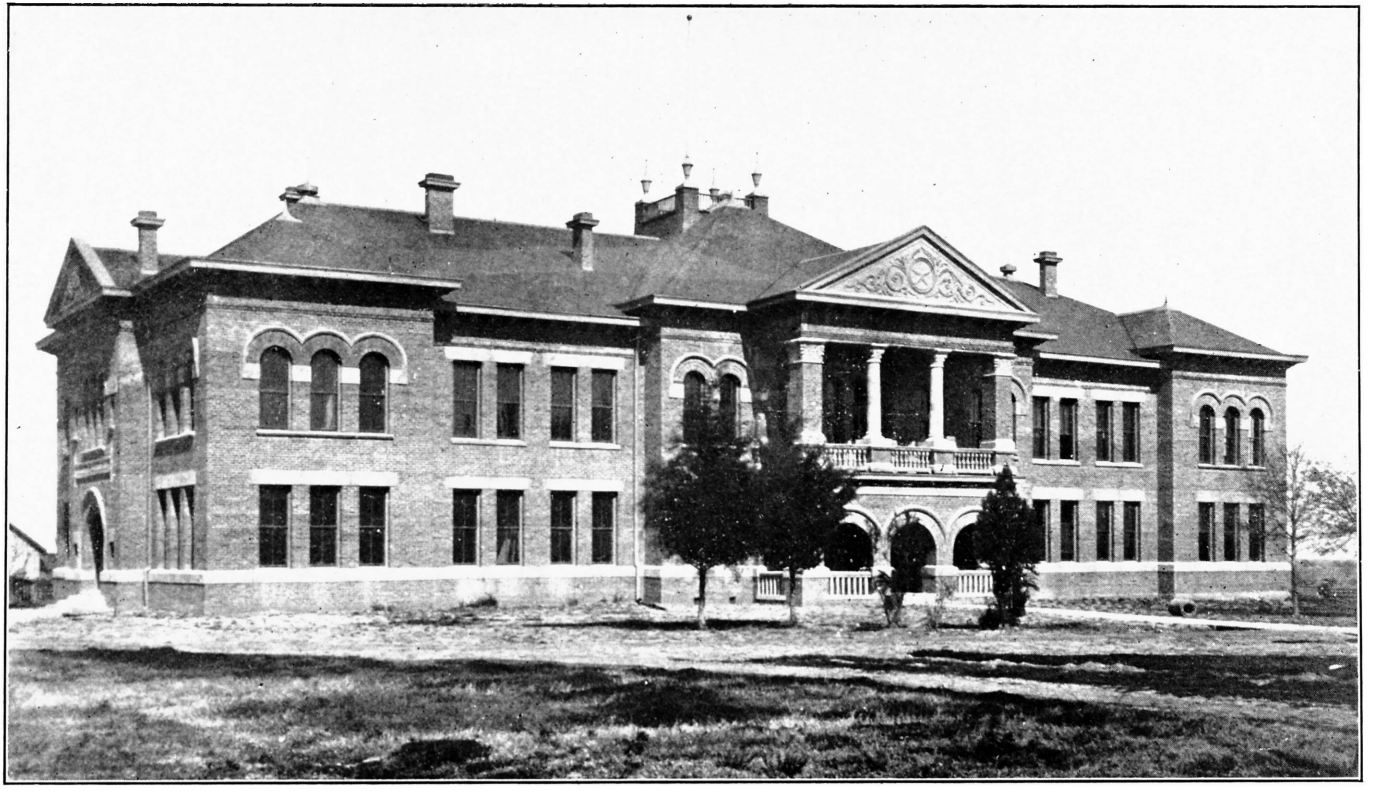
Electives.

(Not less than 8.)

Botany.....5
Chemistry.....2½ or 5.
Entomology.....2½
Drawing.....2½

Thesis.

71 Lines



AGRICULTURAL AND HORTICULTURAL BUILDING.

CIVIL ENGINEERING COURSE.

FIRST CLASS.

FALL TERM.

Analytical Geometry, Mechanics 5
English 4
Railroad Engineering, Mechanics of Materials....5
Hydraulics 2
German or French.....3 —(19)

Practice—

Civil Engineering.....5
Mechanical Drawing.....5
Military Drill .....3 —(13)

WINTER TERM.

Calculus 5
Mechanics of Materials, Roofs and Bridges.....5
Hydraulics 4
German or French.....3
Military Science.....1 —(18)

Practice—

Analytical Chemistry.....5
Mechanical Drawing.....5 —(10)

SPRING TERM.

Calculus 5
English 1
History 2
Roofs and Bridges.....6
German or French.....3 —(17)

Practice—

Testing, Designing and Field Practice.....7½
Mechanical Drawing.....2½
Military Drill .....3 —(13)
Thesis.

MECHANICAL ENGINEERING COURSE.

FIRST CLASS.

FALL TERM.

Analytical Geometry, Mechanics 5
English 4
Machine Design.....5
Industrial Chemistry.....4 —(18)

Practice—

Shop 5
Chemistry 2
Mechanical Drawing.....4
Military Drill .....3 —(14)

WINTER TERM.

Calculus 5
Mechanical Engineering..5
Surveying 3
Strength of Materials....4
Military Science .....1 —(18)

Practice—

Experimental Work in Engineering 5
Assaying 2
Mechanical Drawing.....4 —(11)

SPRING TERM.

Calculus 5
English 1
History 2
Mechanical Engineering..7
Strength of Materials.....3 —(18)

Practice—

Experimental Work in Engineering 5
Chemistry 2
Mechanical Drawing.....2½
Military Drill .....3 —(12½)
Thesis.

TEXT-BOOKS USED IN THE SEVERAL DEPARTMENTS.

FOURTH CLASS.

AGRICULTURE:

BOTANY: Plant Relations, *Coulter;* Botany, *Bailey.*

DRAWING: Bookkeeping, *The Ellis System, Intermediate;* Free-hand Drawing, Advanced, No. 5, Model and Object, No. 1 and No. 2, *Thompson;* Mechanical Drawing, Part I, *Giesecke.*

ENGLISH: Grammar, *Kittredge and Arnold;* Composition and Rhetoric, *Lockwood and Emerson.*

HISTORY: Ancient History, *Myers.*

HORTICULTURE: Plant Culture, *Goff.*

MATHEMATICS: Algebra, *Wells;* Geometry, *Wentworth.*

PHYSICS: Principles of Physics, *Gage.*

THIRD CLASS.

AGRICULTURE:

BOTANY: Botany, *Bailey;* Manual of the Flora of the Northern States and Canada, *Britten.*

CIVIL ENGINEERING: Plane Surveying, *Raymond.*

DRAWING: Mechanical Drawing, Part II, *Giesecke;* Descriptive Geometry, *Faunce.*

ENGLISH: Rhetoric, *Hill;* English Composition, *Bancroft.*

HISTORY: Mediæval and Modern History, *Myers.*

HORTICULTURE AND MYCOLOGY: Nursery Book, *Bailey;* Principles of Vegetable Gardening, *Bailey.*

MATHEMATICS: Algebra, *Wells;* Geometry, *Wentworth;* Trigonometry, *Taylor and Puryear.*

MECHANICAL ENGINEERING: Power and Power Transmission, *Kerr.*

PHYSICS: A Text-book of Physics, *Wentworth and Hill.*

VETERINARY SCIENCE: Comparative Physiology, *Mills.*

SECOND CLASS.

AGRICULTURE: Milk and Its Products, *Wing.*

BOTANY: Text-book of Botany, *Strasburger, Noll, Schenck and Schimper;* Practical Botany, *Strasburger.*

CHEMISTRY: Inorganic Chemistry, *Storer-Lindsay;* Organic Chemistry, *Remsen;* Blow-Pipe Analysis, *Miller;* Metallurgy, *Sexton;* Geology, *Brigham.*

CIVIL ENGINEERING: Surveying, *Davies, Raymond;* Sewers and Drains, *Adams;* Sewage Utilization, *Baker;* Field Manual for Railroad Engineers, *Nagle.*

DRAWING: Descriptive Geometry, *Faunce;* Mechanical Drawing, Part II, *Giesecke.*

ENGLISH: English Literature, *Pancoast;* Principles of Argumentation, *Baker.*

HISTORY: History of England, *Buckley.*

ENTOMOLOGY:

LANGUAGES: German Grammar, *Joynes-Meissner,* with *Stern's* Studien und Plaudereien, and Select Literature; Spanish Grammar, *De Tornos;* Readers, *Ramsey, Knapp;* French Grammar, *Whitney,* with Selected Readings; Latin Grammar, *Coy, Gildersleeve,* with Selected Readers and Literature.

HORTICULTURE AND MYCOLOGY: Principles of Fruit Culture, *Bailey;* Plant Breeding, *Bailey.*

MATHEMATICS: Algebra, *Wells;* Geometry, *Wentworth;* Trigonometry, *Taylor and Puryear.*

MECHANICAL ENGINEERING: Graphics, *Merriman and Jacoby;* Slide Valve, *Halsey;* Machine Design, *Low* and *Bevis.*

MILITARY SCIENCE: *United States Army* Regulation Drill Books.

VETERINARY SCIENCE: Veterinary Medicine, *Robertson.*

FIRST CLASS.

AGRICULTURE: Feeds and Feeding, *Henry.*

CHEMISTRY: Agricultural Chemistry, *Storer;* Industrial Chemistry, *Sadtler;* Lectures; Geology, *Le Conte;* Organic Chemistry, *Remsen.*

CIVIL ENGINEERING: Field Manual for Railroad Engineering, *Nagle;* Mechanics of Materials, *Merriman;* Hydraulics, *Merriman;* Roofs and Bridges, Parts I and II, *Merriman and Jacoby;* Hand Book, *Carnegie.*

DRAWING: Strength of Materials, *Mather.*

ENGLISH: English Masterpieces.

HISTORY: History of England, *Buckley.*

HORTICULTURE AND MYCOLOGY: Moulds, Mildews and Mushrooms, *Underwood;* The Spraying of Plants, *Lodeman;* Elements of Forestry, *Hough;* Landscape Gardening, *Maynard;* The Pruning Book, *Bailey;* Plum Culture, *Waugh;* Nut Culture, *Fuller;* Strawberry Culture, *Blacknall;* Evolution of Our Cultivated Fruits, *Bailey.*

LANGUAGES: German Grammar, *Joynes-Meissner;* Select Literature; Spanish Grammar, *De Tornos;* Readers, *Ramsey, Knapp;* Latin Grammar, *Coy, Gildersleeve,* with Selected Readings and Literature; French Grammar, *Whitney,* with Selected Readings.

MATHEMATICS: Analytical Geometry, *Nichols;* Elementary Mechanics, *Wood;* Practical Calculus, *Peck.*

MECHANICAL ENGINEERING: Machine Design, *Low* and *Bevis;* Indicator Practice and Steam Engine Economy, *Hemenway.*

MILITARY SCIENCE: *United States Army* Regulation Drill Books.

VETERINARY SCIENCE: Veterinary Surgery, *Williams, Liautard;* Veterinary Anatomy, *Chauveau;* Materia Medica, *Bartholow;* Horse Shoeing, *Fleming;* Veterinary Obstetrics, *Fleming.*

GRADUATE COURSES.

Graduate studies in the Agricultural Course lead to the Degree of Master of Science (in Agriculture); in the Mechanical and Civil Engineering Courses to the Degrees of Mechanical Engineer (M. E.) and Civil Engineer (C. E.), respectively; in the General Science Course, to the Degree of Master of Science.

It is required for admission to study for one of these degrees that the candidate be a graduate of this College, or of some other institution approved by the Faculty. He must select a major subject in the department in which his first degree was taken, and two minor subjects from allied departments, and one foreign language. The course of study will occupy two years, at least one of which must be spent in residence at the College. The student must pass satisfactory examinations upon the subjects of the course, and must submit an approved thesis.

Graduate students are under the general regulations of the College, but are not subject to military discipline; they may, however, be required to assist in preserving order in the barracks; and must give continued satisfaction in their studies.

The course of study must be selected from the following prescribed subjects. The selection must be submitted to and approved by the Faculty, and no change may be made without their permission.

AGRICULTURE.

Scientific and experimental work is offered graduate students in stock raising, feeding, culture of feed crops, of dairying for the purpose of extending their information and rendering them better capable of superintending these lines of work. The studies embraced are drainage and irrigation, studies in selection and cross-breeding to improve farm crops and forage plants, scientific investigations of milk, and the conduct of feeding and field experiments.

BOTANY.

Besides courses of reading, a thesis is required in one of the following subjects, or in an equivalent subject: Monographic study in Compositæ, Gramineæ, Leguminosæ, or any other family well represented in this vicinity; catalogue of the plants of this vicinity with ecological observations; morphological study of the development of the floral organs of any suitable family.

CHEMISTRY.

Quantitative analysis, physiological and industrial chemistry; theoretical and organic chemistry; agricultural chemistry; standard reference books; current chemical literature. Final thesis on original work.

CIVIL ENGINEERING.

Advanced work is offered in the following subjects: Hydrographic surveying; hydraulic and water supply engineering; masonry construction; stereotomy; geodesy; strains in drawbridges and other continuous structures; theory of the strength of materials; experimental work with testing machines; designing; detail and shop drawing; thesis.

DRAWING.

Advanced descriptive geometry, stereotomy, and such technical drawing as may be desired.

Shades and Shadows, *Lawrence.*

Such advanced work in drawing as may be needed by the student for his special course.

ENGLISH.

Anglo-Saxon and Norman-French origins of the language. Advanced studies in literature and English composition.

HISTORY.

The beginnings of civilization and the principles of ethnology.

Original investigation in some special line.

HORTICULTURE AND MYCOLOGY.

A. Horticulture.

Graduate studies in horticulture will include studies of sciences relative to plant production and improvement. Advanced studies are offered in plant breeding, plant ecology, forestry, landscape gardening, botany of fruits and vegetables, and experiment station work in horticulture.

B. Mycology.

Systematic study of economic species of fungi; microscopical laboratory methods; spraying for plant diseases; original biological work, and thesis on some special work.

LANGUAGES.

The course in this department will embrace such studies and exercises as will lead to a thorough and practical knowledge of either the German or French language and literature.

MATHEMATICS.

Advanced analytical geometry; differential and integral calculus; analytical mechanics; least squares.

MECHANICAL ENGINEERING.

Continuation of fourth year's work and steam engine economy and design, with continuation of practice in the machine shop, and theory of tests.

In the second year special subjects and original designing; engine and boiler tests, with advanced shop practice.

ELECTIVE COURSES.

Elective courses extending through two years are offered upon the following conditions:

1. A new student, in order to enter upon an elective course, must be able to pass the entrance examinations in English Grammar, Compositon, Rhetoric, Arithmetic, Algebra through quadratic equations, Plane Geometry.

2. A regular student in order to transfer to an elective course must have the consent of his parent or guardian and of the Faculty; he must also have passed on at least two subjects in the Third or a higher class at the examinations held at the end of the spring term. No student in the Second Class reported at the end of the session as deficient in more than two subjects will be allowed to take an elective course. The transfer to an elective course may be made only at the beginnings of a term.

3. Every student upon receiving permission from the Faculty to take an elective course must elect, *in conformity to the regular schedule,* studies amounting to at least *eighteen* hours per week and practice amounting to at least *seven* hours per week, besides drill; his selection to be subject

to the approval of the Committee on Elective Courses and of the heads of the departments in which his studies are chosen. In his second year all his work must be in classes above the Third.

4. He must hand to the chairman of the committee on the *first day of each term* a list of his studies, properly signed.

5. A student in an elective course, upon the completion of two full years work, as defined above, will be entitled to a certificate signed by the President and the heads of the departments in which he studied.

6. Elective students shall be subject to all military duties and to the Rules and Regulations just as are regular students.

SHORT WINTER COURSES.

(January 5-March 16, 1903.)

The Agricultural Department offers two special short courses during the winter term of 1902, and the Horticultural Department offers one. These courses are designed to give a large amount of practical information during the ten weeks of the winter term to those men who do not desire to obtain a thorough College education. They are open only to young men eighteen years of age or over; no entrance examinations are required. The expenses will be $5.00, incidental and medical fee, and $35.00 for board, lights, laundry and fuel. No military uniform will be required. The cost of necessary books is small. Short course students will not be entitled to the privileges of the student labor fund, nor will they drill or perform other military duties, but they will be responsible to the discipline of the College for good conduct while on the grounds.

Those desiring further information concerning these short courses should write to the Secretary of the College for a special circular on "Agricultural Courses."

Stock Farming Course.

(Ten Weeks.)

The short course in stock farming offers a condensed form of scientific and practical work bearing upon stock breeding, stock feeding, and the cultivation of certain crops. Students taking this course will also study veterinary medicine and farm dairying or horticulture.

The best methods of stock feeding, cultivating crops, stock breeding, and the improved methods of farm dairying will be systematically discussed, and the regular College equipment, including library, live stock, improved machinery, experimental crops, etc., will be available for illustration for students taking this course.

Dairy Course.

(Ten Weeks.)

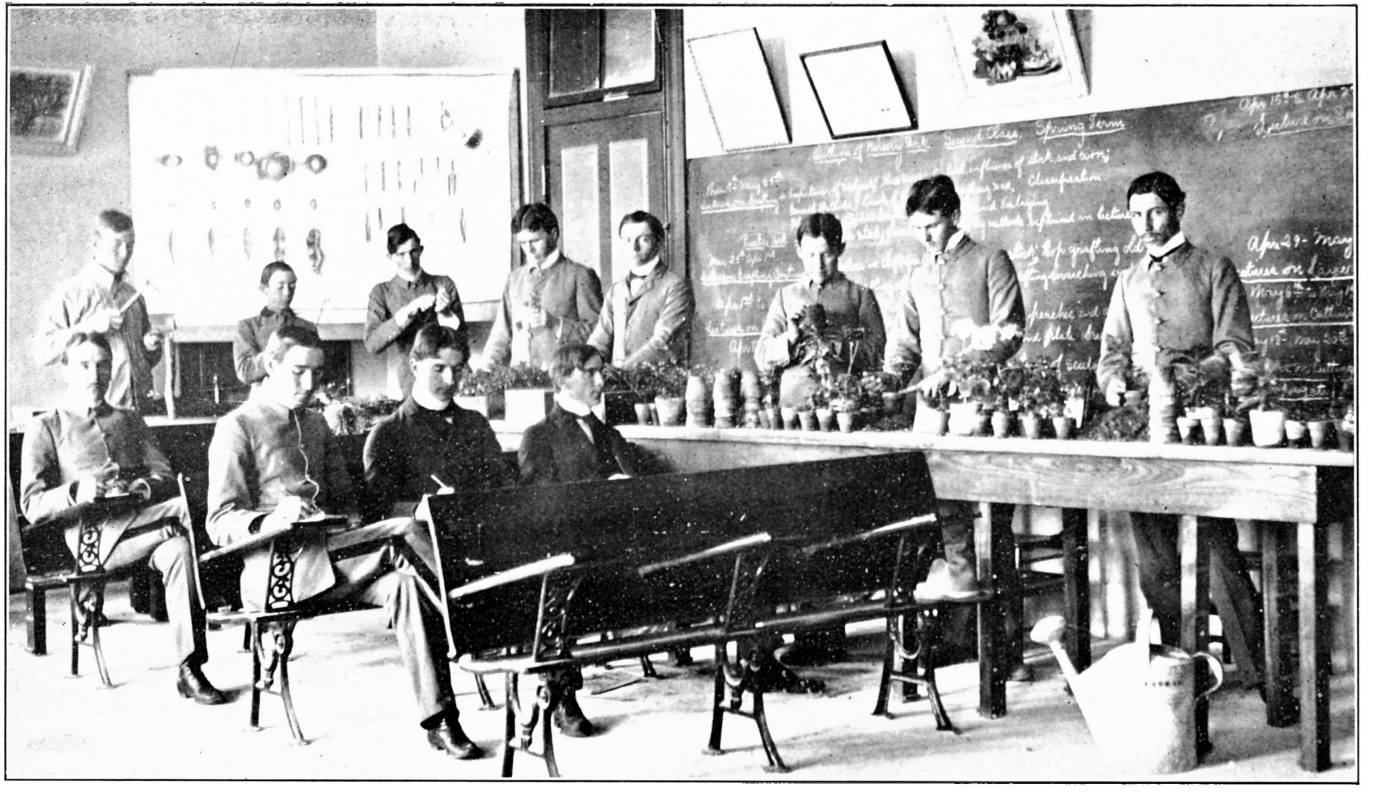
The work of this course will consist of class room instruction, in the theory of handling milk, separating cream, curding cream, and making butter and cheese, combined with daily practice work with the separators, churns, milk testers, and other equipment of the dairy department.

Considerable attention will also be given to the proper selection, care, feeding and management of the dairy herd and the judging of dairy animals. Particular stress will be laid upon dairy conditions existing in Texas. Students in this course will also receive instruction in veterinary science.

Horticultural Course.

(Ten Weeks.)

The object of this short course in horticulture is to teach some of the fundamental principles underlying successful fruit culture and truck farming in Texas to those who may care to take the work. The lectures will be especially prepared to benefit one actually engaged in this work, or who may contemplate doing so. The more difficult obstacles in the way of success along these lines will be made a special feature of this course. Some instruction in veterinary science will also be given. The students will be advised in the collateral reading course required.



HORTICULTURAL PRACTICE IN PLANT PROPAGATION.

GRADES, REPORTS, EXAMINATIONS AND ADVANCEMENT.

Records of the standing of each student are kept by the professors of the several departments. This standing is indicated by a system of marks based upon 100 as a maximum, with decimal graduations.

A monthly report is mailed to the parent or guardian of each student, showing his class standing and conduct.

Examinations are held from time to time during the session, as special subjects of study may be completed.

A student's final grade in any subject is determined by averaging his term of grade, if any, with his examination grade, if any. Then, provided the examination grade be not below 55, he will be passed on a final grade of 66 in the Third and Fourth Classes, of 70 in the First and Second.

In subjects where no examination is given, the student, in order to pass, must have a term grade at least as high as the passing grade of his class, and must complete a certain amount of practice or work prescribed by the professor in charge.

A student who has been found deficient on any subject will be given a second examination; but he must make the passing grade of his class thereon, without taking into account his term grade. This second examination will not affect his class standing.

No student will be given more than two examinations on one subject; except as follows:

(1) A student who has failed on a second examination may be examined again at the opening of the next session.

(2) A member of the First Class who has failed on a second examination upon one subject only, but has complied with all the other requirements for graduation, may, by the consent of the Faculty, be given a third examination upon that subject during the week before Commencement.

Advancement from one class to the next higher is governed by the following provisions:

(1) A student who has attained a passing grade upon all his studies will be reported as "passed," and may enter the next higher class unconditionally.

(2) A student of the Third or Fourth Class who has been found deficient in not more than two subjects will be reported as "passed conditionally," and may enter the next higher class, but must remove his "condi-

tions" by making the required passing grade at some time during the next session, or within a shorter time if prescribed by the Faculty.

(3) A student of the Third or Fourth Class who has been found deficient in more than two subjects shall not be allowed to enter the next higher class except by making the required passing grade, within the *first three days* of the next session, upon all but one of the subjects in which he was deficient.

(4) A student of the Second Class who has been found deficient on any subject shall not be allowed to enter the First Class except by making up all his deficiencies within the *first three days* of the session.

No student will be admitted to the First Class with any conditions still unremoved.

GRADUATION.

A diploma of the College, with the degree corresponding to the course of study pursued, will be granted students who complete one of the prescribed courses and pass satisfactory examinations on all of the branches embraced therein. Each candidate for graduation is required to prepare a thesis upon a subject bearing upon his work in some scientific or practical department. The subject must be submitted to the Faculty for approval by March 20.

The thesis must be satisfactory to the head of the department in which it was written.

The diploma fee is five dollars.

HONORS.

The three students of the graduating class who have the best records for scholarship and deportment are known as honor men; but this rule may be modified if the number of students in any class or their scholarship shall not warrant such distinction.

In each of the lower classes the three students having the highest general average in all their studies, and also in each department the three students of the several classes whose final grades are highest, are announced at Commencement as "distinguished."

DEPARTMENTS OF INSTRUCTION.

DEPARTMENT OF AGRICULTURE.

PROFESSOR CONNELL.

ASSISTANT PROFESSOR ALVORD.

THEORY OF INSTRUCTION.

Farm crops, stock husbandry, and dairying are included in the several subjects taught in this department. The work is both practical and theoretical.

"Farm Crops" are studied through the object lessons afforded by a large diversified farm and various experimental crops, which embrace many rare kinds of forage plants and all of the ordinary crops cultivated in this section, together with lectures upon selection of varieties, culture, economic uses, etc.

"Stock Husbandry" is taught by use of the College herds of cattle, hogs, and work stock, as far as these can be utilized as illustrations of animal form or type, lessons in breeding, and for feeding trials. Text-books and lectures discuss the principles of breeding, the established breeds, and the results of feeding and management.

"Dairying" is a distinct branch of instruction in agriculture, through which the student becomes familiar with milk cattle, butter making, cheese making, milk testing, and the many improvements in dairy machinery. Practical butter and cheese making by agricultural students acquaints each with the working principles of this industry.

CLASS STUDIES.

Fourth Class.—Breeds of stock, including horses, cattle, swine, and sheep, are carefully studied as to origin, history, development, characteristics, and adaptability to the varied conditions of the Southwest. Students are also practiced in scoring and judging farm animals, and drilled in their selection, purchase, care, and management by practice in measuring and scoring the live stock. This subject is taught during the winter term. Representative animals of different breeds are kept for the purpose of instruction in this subject.

Third Class.—"Stock Judging" is taught during the spring term, and great care is taken to learn the ideal or typical forms of the beef and dairy animals, for the purpose of judging the animal's worth from its exterior parts. This work trains the eye and develops clear conceptions

of animal type. Free use is made of the pure bred cattle sent to this place for inoculation by the veterinary department from owners living in all parts of Texas. Many of these cattle are of excellent breeding and character.

"Soil Physics" is studied by use of the appliances in the laboratory provided for this purpose, during the fall term. The power of soils to hold moisture, the penetrative capacity of certain plant roots, effects of cultivation, deep and shallow preparation and the conditions influencing evaporation are studied in the practice work assigned.

Second Class.—The principles of "Stock Breeding" are taught in this class, basing the instruction upon the students' knowledge of animal physiology, with which it is nearly related. Heredity, atavism, variation, selection, and in-breeding, and their practical application to domestic animals, are noted.

By practice work the student becomes familiar with the breeding of noted animals, the best blood lines of the several classes of stock by the use of pedigrees, herd books, etc.

Dairying is given considerable prominence. The Second Class receives thirty-two lectures upon this subject. The properties and composition of milk, the variations due to breed, and feed, and the fermentation of milk; the creaming, churning, cheese making, testing for fat, and for adulterations; and the subject of bacteriology, are all discussed in order. The proper care of fresh milk, the operation of hand and power separators and churn, the care of creamers, and testing for acidity and for butter fat in milk and cream, can be most thoroughly learned by combining this work with the theory taught in the class room. The aim is thoroughly to fit out students for taking charge of and operating creameries and dairy farms successfully in any portion of the State.

"Irrigation and Drainage" is studied by lectures given during the spring term. The advantages of the several methods of irrigation in use are considered, the amount of water necessary for the various crops, the available water supply of all parts of the State are studied. Practice is given in the construction and location of reservoirs, laying out head ditches, construction of flumes, irrigation machinery, and the cost of raising and applying water under conditions existing in this State. Methods of securing perfect drainage are discussed, and the methods of protecting lands from washing rains, terracing farm lands, the construction of open and tile ditches are also considered.

"Grasses and Forage Plants" are considered with reference to habit of growth, methods and cost of seeding, effect upon the soil, adaptability to various portions of the State, feeding value, etc. All field crops, except fibre plants, are included in the study of this subject. It is taught in the spring term in thiry-six lectures, by reference books, and by practice with forage crops.

First Class.—Having studied animal anatomy and physiology and the subjects of chemistry, the students of the First Class are prepared to understand the study of scientific or rational "Feeding of Farm Animals" —the study of which is begun in the fall term and pursued for two terms in the First Class. The laws of animal nutrition and the composition of animal bodies are briefly considered. The individual food stuffs are then closely studied as to composition, digestibility, market value, etc. The student is then advanced to the selection of feeding rations for the economic support of sheep, milk cattle, beeves, horses, and hogs. In this manner the value of all food stuffs is clearly shown in theory. The practical feeding of farm animals by students serves to more fully acquaint them with this subject. The best results in feeding stock by the various experiment stations of the United States form a most valuable feature of studies devoted to this subject. Students who complete the study are well qualified to care for and manage stock farms and various feeding enterprises.

The study of "Farm Management" and the various systems of organization of farm work practiced in this State completes the study of the Agricultural Department in the fourth year, or graduating class. Comparisons are made of the different branches of agriculture, rotative and successive cropping, management and economy of farm labor, selection and care of machinery, and live stock for certain purposes, and profit and loss in farming.

EQUIPMENT.

The twenty-four hundred acres in the farm, with one hundred and twenty milk cows (consisting of typical Jerseys and Holsteins and grades), the hogs, work stock, the improved tools and machinery for all farm work, the mammoth silos for preserving green stock food, offer illustrations of great practical value to the student.

An irrigation reservoir, watering ten acres, affords illustrations in the application of water to vegetables and field crops. A large amount of tile drain is in use.

The dairy is fitted with milk separator, churns, butterworkers, and milk testing machines run by steam or gasoline power. The cheese making outfit includes milk curd vats, curd milk, gang press, and other equipment used in making cheddar cheese. All of the labor of this large machine dairy is performed by the Agricultural students; for this and other voluntary work, faithfully performed, students are paid at a maximum rate of twelve cents per hour.

The new building into which the department has recently moved provides many facilities for the better instruction of classes. The live stock room into which cattle and sheep may be brought for careful inspection, the larger dairy rooms containing much new machinery, together with the

rooms for soil physics, laboratory and other class rooms provided with additional equipment, furnish the most useful materials for class instruction.

Agricultural Experiment Station.—The permanent location by the general government of the Agricultural Experiment Station for Texas at this College under the supervision of a Director (who is also the Professor of Agriculture) makes it possible to give students the benefit of experiments conducted at the College, and permits a careful study of results of valuable tests conducted elsewhere, by frequent reference to bulletins from other stations, files of which are kept in the Director's office. A valuable collection of scientific works bearing on all phases of agriculture constitutes the station library, and is freely used by students of the College.

DEPARTMENT OF BOTANY.

PROFESSOR NESS.

The study of botany commences in the winter term of the first year, Fourth Class, with ecology; that is, the study of the distribution of plants, the causes of and manner in which it is effected, the relation of plants to soils, to climates, to each other, and the animal kingdom. So much of plant physiology is given as is necessary to an elementary understanding of these things

Text-Book: Plant Relations, *Coulter.*

Morphology, or the study of the forms and structure of the organs of plants, is taken up in the spring term of the same year. This subject is pursued especially with the view of becoming proficient in that part of morphology so needful in the systematic work with the flowering plants.

Text-book: Botany, *Bailey.*

Third Class.—Morphology is continued during the first part of the fall term. In the laboratory work connected with this study, the students are required to make drawings and descriptions of the various organs of representative plants. Each student is required to provide himself with a cheap set of dissecting instruments and a tripod-lens, obtainable in the College book store.

Systematic botany will be introduced in the latter half of this term, and carried on, so far as the condition of the vegetation will permit at that season.

In the spring term of the same year, systematic botany is continued. The lecture hours are consumed in considering the characters and relationship of representative families of plants; the laboratory hours, in

collecting, determining and preparing specimens for the herbarium which each student must submit at the close of this term.

Text-books: Botany, *Bailey;* Manual of the Flora of the Northern States and Canada, *Bailey.*

Second Class.—This class studies the anatomy and physiology of plants in the fall term. The study of the character and structure of the protoplasm is first taken up. This is followed by the study of the tissues and their arrangement into systems; finally, under the head of physiology, the functions of these various parts are studied. In the laboratory, the students are made familiar with the art of hardening, imbedding, staining, and mounting the specimens for microscopic examination. The students are required to submit drawings, with notes, on the various parts studied.

Text-Book: Text-Book of Botany by *Strasburger, Noll, Schenck* and *Schimper.*

Laboratory Manual: Practical Botany, *Strasburger.*

First Class.—To the Agricultural students of the First Class, botany is made elective during the spring term, and the time will be devoted to advanced systematic botany. The students are by this time able to appreciate the nicety with which all families of plants fall into more or less closely related groups. Each group with some of its components will, as far as the time permits, be considered. Families of importance, such as the grasses, will receive special attention.

Laboratory hours will be consumed in herbarium work.

Text-Book: Systematic Botany, *Warming.*

Graduate Work.—To graduates desiring further advancement in botany, the department offers instruction as outlined under the head of Graduate Courses.

EQUIPMENT.

The Department of Botany is supplied with good compound and dissecting microscopes, a new Reichert's microtome, as well as other necessities for pursuing microscopic investigation; a collection of standard reference books on all branches of botany, and a small but growing herbarium containing specimens from the various sections of the State, many of which were collected and presented to the department by Mr. J. Reverchon.

DEPARTMENT OF CHEMISTRY AND MINERALOGY.

PROFESSOR HARRINGTON.

ASSOCIATE PROFESSOR TILSON.

ASSISTANT PROFESSOR FRAENKEL.

CHEMISTRY.

Second Class.

The subject of chemistry is introduced by the study of inorganic chemistry, which is taught for two terms, to the Second Class. The attention of the student is directed to the historical development of the science, to the phases of chemical theory as at present understood, and especially to the importance of chemistry in the arts and manufactures.

Following the work in inorganic chemistry, the students of the Agricultural Course pass to a brief course in organic chemistry. The object here is to have the student grasp the fundamental principles of the science, and to acquire a foundation for intelligent work in agricultural chemistry the following year.

Geology is taught in the spring term to the students of the Civil Engineering Course, and

Metallurgy during the same time to the students of the Mechanical Engineering Course.

LABORATORY WORK.

Beginning with the study of inorganic chemistry, the students of the Agricultural Course supplement their class room instruction with laboratory work. This begins with the use of the blowpipe, simple glass working, and fitting up apparatus; continuing into qualitative analysis, and determinative mineralogy.

First Class.

Industrial Chemistry is given in the fall term to students of all courses, except those of the Civil Engineering Course. Various industrial processes are discussed and explained, such as the manufacture of sugar from cane and beets, manufacture of starch, glucose, and vinegar; tanning of hides, and the manufacture of glue. Destructive distillation of wood and coal, and treatment of chemical products derived therefrom. Chemistry of the oils, fats and waxes, their manufacture and purification. Nature of petroleum oil, and method of working up into its various commercial products. The manufacture of paper, guncotton, and textile fibres.

In *Agricultural Chemistry* particular attention is given to the compo-

STOCK JUDGING—HEREFORDS.

sition of the soil, and its physical characteristics; composition of plants, and movements that take place within them during growth; chemical and physical character of fertilizers, and kinds suited to different crops.

In *Geology* the student is drilled in the principles of the science, and placed upon a foundation where he may continue the work for himself.

LABORATORY WORK.

Students of the Agricultural Course, having completed their preparatory work in the Second Class, are given quantitative analysis, both volumetric and gravimetric, supplemented by exercises in manufacturing chemistry.

The students of the Mechanical Engineering Course take up blow-pipe analysis, assaying, and qualitative analysis, while the students of the Civil Engineering Course get brief work in blow-pipe analysis, and determinative mineralogy.

The laboratory is fairly well equipped with improved apparatus; has a good library, and current chemical literature, to which the students of the department have access.

DEPARTMENT OF CIVIL ENGINEERING.

PROFESSOR NAGLE.

Approved text-books, supplemented by explanations and lectures, when needed, form the basis of instruction in this department. A liberal amount of practice with the usual engineer's field instruments and apparatus for testing the strength of the materials of construction serves to impress upon the mind of the student the principles taught in the class room. An effort is made to develop in him an appreciation of the conditions under which approximate methods may be substituted for the more rigid ones, and also of the degree of precision required in different classes of work.

Thoroughness in a few of the more important subjects that embody the basic principles of engineering is sought throughout the work, rather than the superficial covering of a more extensive field. Many numerical solutions of problems are required in order to impress principles upon the student's mind, but at the same time his capacity for independent reasoning is cultivated as much as possible.

Owing to a change in the requirements for the Engineering Courses, which went into effect in the fall of 1901, the present catalogue shows an apparent duplication of work in the Third and Second Classes, because the Third Class will now begin a subject that could not heretofore be taken earlier than the Second Class.

The subjects taught in this department for the session of 1902-1903 are as follows:

Third Class.—Plane surveying for the Civil Engineering and Mechanical Engineering students, three hours per week during the spring term. Field practice during the latter part of the term.

Second Class.—The construction of sewers and drains and the final disposal of sewage is studied by the members of the Civil Engineering Course during the fall term; recitations two hours per week. In the winter term the same students take up surveying for four hours per week, continuing it for five hours per week during the first part of the spring term. After completing surveying they take up railroad engineering. During the spring term field practice is carried on for five hours per week, and each student is required to submit a plat and profile compiled from surveys made by himself and companions.

Agricultural and Science students of the Second Class take a short course in plane surveying during the winter term in which they are taught the adjustments of the compass, transit and level, and their use in land surveying and drainage. They have practice with these instruments during the latter part of the term.

First Class.—In the fall term the Civil Engineering students complete the subject of railroad engineering and begin that of the mechanics of materials. In the field they have practice in railway projection, location and setting of slope stakes on a short line, after which they compute the earth-work quantities, etc. They begin the subject of hydraulics during the fall term and complete it during the winter term.

The mechanics of materials, and the computation of stresses in roofs and bridges, both analytically and graphically, are studied during the winter and spring terms.

A short course in experimental engineering is given during the spring term and also work in bridge and structural designing. Each student is required to make a stress for a simple roof truss or non-continuous bridge truss, to design the main members and connections and to make detail drawings for the same.

During the winter term the First Class Mechanical Engineering students take the same course in plane surveying described above for the Second Class Agricultural and Science students.

Graduate Work.—Under the head of "Graduate Courses" will be found an outline of some of the subjects in which advanced work is offered in this department. The work assigned will be adapted, in so far as is practicable, to the needs of each particular student taking such work. Structural and bridge designing, the preparation of detail and shop drawings, the study of projects and the review of existing structures will constitute a feature of the course.

EQUIPMENT.

The department is supplied with a fair assortment of engineering instruments, including the following: One transit with Gurley's solar attachment; one railroad transit; one surveyor's transit; three engineer's Y levels; one drainage level; one terracing level; one Locke's hand level; one solar compass; four other compasses; one plane table; one planimeter; one aneroid barometer; one odometer; one pedometer; one Thacher calculating instrument and several small slide rules; one Colby topographical protractor; one Colby stadia reduction slide rule; an assortment of drafting instruments and a sufficient supply of chains, tapes, pins, flag poles, leveling rods, etc.

The department owns two cement testing machines—one of Riehle's make and one of Fairbanks' make—each of 1000-pounds capacity, together with such other apparatus as is needed in cement testing. A 20,000-pound Riehle machine arranged for tension, compression and cross breaking is also owned by the department, and also some large sized models of various types of bridge and roof trusses, etc., together with blue prints and photographs of existing structures.

There is also a fairly well assorted library of standard and current engineering literature in the department, to which the students have access.

DEPARTMENT OF DRAWING.

PROFESSOR GIESECKE.

ASSISTANT PROFESSOR LOVE.

Students in the Agricultural Course receive instruction in the following subjects:

Fourth Class: Free-hand drawing and double entry bookkeeping.

Third Class: Free-hand drawing and elementary mechanical drawing.

First Class: Free-hand drawing from models, casts, and still life, in charcoal, pen and ink, or water color.

Students in the engineering courses receive instruction in the following subjects:

Fourth Class: Elementary mechanical drawing, projections, and free-hand drawing from models.

Third Class: Descriptive geometry, shades and shadows, working drawings, tracing and blue printing.

Second Class: Descriptive geometry, shades and shadows, working drawings, tracing and blue printing. Kinematic drawing for the Mechanical Engineering students.

First Class: Linear perspective, tinting, and working drawings. Strength of materials for the mechanical engineering students.

The department is supplied with all necessary tables, boards and instruments for the students' use.

NOTE.—During the session 1902-1903 the instruction in the Third Class will be the same as in the Second Class because the course in drawing, for the Engineering students, is being advanced one year.

TEXT-BOOKS.

Fourth Class: Bookkeeping, *The Ellis System, Intermediate;* Free-hand Drawing, Advanced, No. 5, Model and Object, No. 1 and No. 2, *Thompson;* Mechanical Drawing, Part 1, *Giesecke.*

Third Class: Descriptive Geometry, *Faunce;* Mechanical Drawing, Part II, *Giesecke.*

Second Class: Descriptive Geometry, *Faunce;* Mechanical Drawing, Part II, *Giesecke.*

First Class: Strength of Materials, *Mather.*

DEPARTMENT OF ENGLISH.

PROESSOR PHILPOTT.

ASSOCIATE PROFESSOR FOUNTAIN.

The work of this department is intended to give the student such a thorough, practical knowledge of the language as will enable him to use it correctly, both in writing and in speaking.

Instruction is based on the conviction that theory without practice is comparatively worthless. Frequent exercises in writing are required in order to teach the student to apply the knowledge gained from the study of text-books, and a liberal course of collateral reading is begun in the first year and is continued until graduation.

Special attention is called to the entrance requirements, and to the specimen examination questions on page 24.

COURSE I. ENGLISH GRAMMAR AND COMPOSITION.

Five hours a week for the session.

Text-books: The Mother Tongue, *Kittredge and Arnold;* Composition and Rhetoric, *Lockwood and Emerson.*

Exercises in composition and declamation; supplementary reading.

This course is designed to give the student a thorough knowledge of technical grammar and to prepare him, by frequent written exercises, to apply his knowledge in a practical way.

This work is required of students in the Fourth Class taking the Agricultural Course, and is required for entrance into the other courses.

COURSE II. RHETORIC AND COMPOSITION.

Five hours a week for the session.

Text-Books: Principles of Rhetoric, *Hill;* English Composition, *Bancroft.*

Throughout this course careful attention is given to written exercises. An effort is made to teach the student to think logically and to express himself with clearness, force, and ease. Themes are planned and developed.

This work is required of students of the Fourth Class taking the General Science or an Engineering Course, and of students of the Third Class taking the Agricultural Course.

COURSE IIIA. ARGUMENTATION.

Four hours a week for two terms.

Text-book: Principles of Argumentation, *Baker.*

Monthly exercises in debating.

COURSE IIIB. ENGLISH LITERATURE.

Four hours a week for one term.

Text-book: Introduction to English Literature, *Pancoast.*

Frequent written work based on supplementary reading is an important part of this course.

Courses IIIa and IIIb represent the work designed for students of the Third Class taking the General Science, the Civil Engineering or the Mechanical Engineering Course.

This work is required of students of the Second Class taking the Agricultural Course.

COURSE IV. CRITICAL STUDY OF MASTERPIECES OF ENGLISH PROSE AND POETRY.

Three hours a week for two terms.

This work is required of Agricultural students only, and is given in the graduating year.

Optional Courses.

COURSE V. SHAKESPEARE.

Two hours a week for one session.

Text-Book: *Rolfe's* edition of the text read and *Dowden's* Shakespeare.

COURSE VI. LOGIC.

Three hours a week, two terms.

COURSE VII. ENGLISH LITERATURE OF THE EIGHTEENTH CENTURY.

Three hours a week, two terms.

COURSE VIII. AMERICAN LITERATURE.

Three hours a week, one term.

COURSE IX. ENGLISH LITERATURE OF THE NINETEENTH CENTURY.

Three hours a week for two terms.

DEPARTMENT OF ENTOMOLOGY.

PROFESSOR MALLY.

Instruction in this department is directed largely towards training students of the Agricultural and Horticultural Courses how to study the habits and life history of insects, and to recognize those that are beneficial as well as those that are injurious. Lectures are prepared with reference to the harmful insect pests of the orchard and garden, as well as of farm crops, especially those of cotton. It is the purpose of this department so to train the students that thereafter they may be able to investigate insect depredations as they occur, and determine what is the best remédy to apply or the best protective measure to provide. The graduating class is given a special course of lectures on insecticides, the methods of preparing and applying and the best spraying apparatus for special purposes. Suitable field practice and laboratory exercises form a portion of the course throughout. In short, it is intended to give such training as will be of the greatest practical application to agricultural and horticultural conditions.

A complete course in Bee Culture is offered to the students in the Agricultural Course. A model apiary will afford the necessary practice.

DEPARTMENT OF HISTORY.

PROFESSOR HUTSON.

ASSOCIATE PROFESSOR SOUTH.

In this department the course extends through the whole college life. Constant endeavor is made to teach the young men that the history of

the race is full of social and political problems still applicable to modern life, in spite of many changed conditions; and that the welfare of humanity now and hereafter depends largely upon the proper correlation of the present and the future with the fund of experience won in the past.

STUDIES AND TEXT-BOOKS.

First Year: The class of this year studies ancient history.

Text-Book: *Myers's* Ancient History.

Second Year: The class of this year studies mediæval and modern history.

Text-Book: *Myers's* Mediæval and Modern History.

Third Year: The class of this year begins the study of English history, especial stress being laid on the development of the English Constitution, the progress of civilization, and the close connection between the condition of the people and the state of the literature.

Text-Book: *Arabella Buckley's* History of England.

Fourth Year: The study of the history of England is continued this year by the students of the Mechanical Engineering and Civil Engineering Departments. The rise of popular representative government and of colonial development, and the lessons to be learned from England's commercial prosperity, industrial activity, and mastery of the sea are especially impressed on the attention of students.

Text-Book: *Arabella Buckley's* History of England.

For Reference: Histories of *Gibbon, Merivale, Mommsen, Curtius, Maspero, Green, Knight, Guizot, Hallam, Freeman, Stubbs, Ranke, Rawlinson, Macaulay, Grote, Carlyle, Motley, Hodgkin, Bosworth Smith,* and others. These are accessible in the College library, which is emphatically the tool house of this department. Students are urged and encouraged in every way to make use of collateral reading, special references being given on the blackboard at each recitation.

Candidates for admission into the Fourth Class are examined in the history of Texas and that of the United States. Applicants for admission into the higher classes are examined in the studies already passed over by the classes below. See page 20.

DEPARTMENT OF HORTICULTURE AND MYCOLOGY.

PROFESSOR PRICE.

ASSISTANT PROFESSOR WHITE.

The course in this department is both scientific and practical. The scientific principles underlying horticultural operations are taught in

the class room while application of these principles are taught in the vineyard, orchards, nursery, gardens, and laboratory.

Throughout the course in this department, it is made a special object to teach scientific principles rather than to study special rules. Both the text-book method and the lecture method are used whenever they can be to advantage. The practice, or laboratory work, is designed to follow up and to illustrate the work in the lecture room, Volunteer student work is encouraged along the lines of study in the different classes.

The results obtained by this department in carrying on various experiments with fruits and vegetables are used in the class room.

A graduate in this department receives a good training also in physics, chemistry, botany, surveying, geology, veterinary science, mathematics, English, history, and irrigation.

Equipment: Two large section rooms and two large laboratories designed especially for this department have been completed and are being fitted up with modern apparatus in the new Agricultural and Horticultural building.

Copies of all the bulletins issued by the various experiment stations of the United States on horticulture and mycology are kept on file, and are conveniently indexed.

The department library contains 225 volumes, to which the student has free access. There are kept on file many of the best horticultural papers published in the United States. Each student of the graduating class has assigned to him a compound microscope, with micro-reagents and accessories for scientific investigation in mycology.

The department owns a considerable collection of the latest improved horticultural tools, spraying apparatus, etc. Hot-beds, cold-frames, and a small greenhouse will be used, as far as practicable, for illustrating the work.

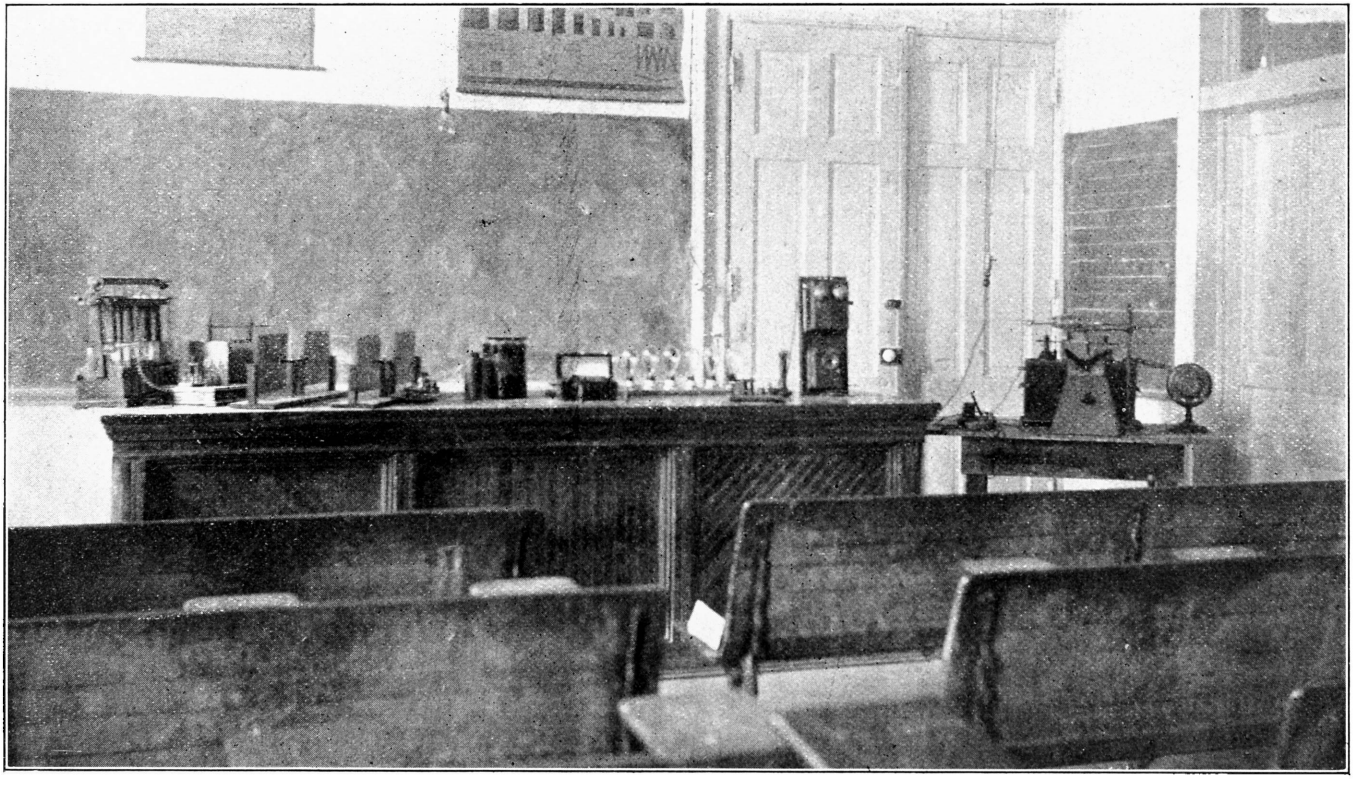
The degree of Bachelor of Science in Agriculture will hereafter be given students graduating in this department, as well as to those in the Agricultural Department. The student has the privilege of choosing between horticultural and agricultural studies in the fall term of the Second Class, and through the entire year of the First Class. English, and either horticulture or agriculture, are all that are required in the senior year. The other studies are elective.

A ten weeks short course in horticulture will be given during the winter term.

PLANT CULTURE.—*First Year, Spring Term:* Study of plant growth from seed germination to harvest time. Seed testing. Budding and grafting.

Text-Book: Plant Culture, *Goff.*

NURSERY PRINCIPLES.—*Second Year, Winter Term:* Study of the



WIRELESS TELEGRAPHY—ELECTRIC LIGHT—TELEPHONE, CLARK'S MACHINE—TELEGRAPH—X-RAY APPARATUS.

principles of nursery management, various ways of propagating the different kinds of fruit, such as budding, grafting, layering, etc.

Text-Book: *Bailey's* Nursery Book.

TRUCK FARMING.—*Second Year, Winter Term:* Study of the different crops adapted to truck farming in Texas. Construction and management of hot-beds and cold-frames. Special fertilizers for vegetable crops, packing, shipping and marketing.

Text-Book: Principles of Vegetable Gardening, *Bailey.*

Reference Books: Truck Farming for the South, *Oemler;* Sweet Potato Culture for Profit, *Price;* The Forcing Book, *Bailey.*

PRINCIPLES OF FRUIT CULTURE.—*Third Year, Fall Term:* Selection and preparation of land for orchards. Setting, care, and management of trees in orchards. Vineyard culture. Protection against frosts.

Text-Book: Principles of Fruit Culture, *Bailey.*

Reference Books: *Thomas's* American Fruit Culturist; *Barry's* Fruit Garden; *Downing's* Fruit Trees of America.

PLANT BREEDING.—*Third Year, Spring Term:* How to cross-fertilize plants and originate new varieties. How to improve old varieties. "Darwinism" and its relation to horticulture.

PLANT DISEASES.—*Fourth Year, Fall Term:* Study of the life history of economic fungi. Study of classification and biology of fungi. Herbarium of twenty-five species of local fungi is required. Spraying of plants. How to prepare fungicides and apply them to plants to prevent injury done by fungi. Spraying machinery.

Text-Books: Moulds, Mildews and Mushrooms, *Underwood;* The Spraying of Plants, *Lodeman.*

Reference Books: Diseases of plants Induced by Cryptogamic Parasites, *Freiherr Von Tubeuf; Plowright's* Monograph of Uredineæ and Ustillagineæ; *Burrill's* Monograph of Uredineæ and Erysipheæ; North American Pyrenomycetes, *Ellis and Everhart.*

ADVANCED POMOLOGY.—*Fourth Year, Winter Term:* Special study of the origin, history, and development of our leading American types of fruit, such as the apple, peach, pear, grape, strawberry, dewberry, blackberry, etc. Study of the best cultivated varieties. Study of special fruits. The subject is taught by both lecture and text-book.

LANDSCAPE GARDENING AND FORESTRY.—*Fourth Year, Spring Term:* The art of beautifying American homes. Principles of embellishing landscapes. Planting and management of woodlands. Consideration of the rôle they play in the economy of nature. Management of forests in Texas.

Text-Books: Landscape Gardening, *Maynard;* Elements of Forestry, *Hough.*

Reference Book: North American Sylva, *Michaux.*

DEPARTMENT OF LANGUAGES.

PROFESSOR BITTLE.

ASSOCIATE PROFESSOR SOUTH.

It is the object of the department to furnish students of the Horticultural and Civil Engineering Courses, and others who may desire it, with a practical knowledge of German, Latin, French, or Spanish, such as will benefit them in the prosecution of a scientific career.

To this end, the text-books used and the method of imparting instruction are practical. Latin is taught as an essential to a thorough understanding of English; German and French, because neither the specialist nor the general student can afford to be ignorant of those literatures; Spanish, in view of the rapidly growing intercourse between us and the Latin republics south of us; all of them, because systematology and scientific nomenclature are unintelligible without a knowledge of foreign languages.

Students coming to us, therefore, from the high schools of the State find here the opportunity to continue their linguistic studies by the side of agricultural and mechanical branches, to which those studies lend effective aid.

DEPARTMENT OF MATHEMATICS.

PROFESSOR PURYEAR.

ASSOCIATE PROFESSOR SMITH.

ASSOCIATE PROFESSOR BANKS.

Instruction in this department is given by the use of approved text-books, supplemented by oral explanations and lectures. The course is designed to be thorough rather than extensive. The student's knowledge of the subject studied is tested daily at the blackboard, and he will be required to apply the principles taught to the problems of practical problems. Written solutions of selected problems will be required at stated intervals. For specimen entrance examinations, see pages 23, 24.

On account of recent changes in the entrance requirements, the work of the Third Class, Engineering and General Science Courses, is this year almost identical with that of the Second Class.

The subjects pursued are as follows:

First Year: Agricultural Course—elementary algebra, to quadratic

equations; Engineering Courses—algebra from theory of exponents to the progressions; plane geometry.

Second Year: Algebra, geometry.

Third Year: Solid geometry, trigonometry, advanced algebra.

Fourth Year: Analytical geometry, elementary mechanics, calculus.

For instruction in geometry, the department is supplied with a set of Schroeder's models, imported for this institution.

Text-Books: Higher Algebra, *Wells;* Geometry, *Wentworth;* Trigonometry, *Taylor and Puryear;* Analytic Geometry, *Nichols;* Mechanics, *Wood;* Calculus, *Peck.*

DEPARTMENT OF MECHANICAL ENGINEERING.

PROFESSOR WHITLOCK.

ASSISTANT PROFESSOR KERR.

ASSISTANT PROFESSOR ROLLINS.

INSTRUCTOR BRYAN.

This department is intended so to combine theory and practice that, after deriving a theoretical knowledge of the subject from the text-books of standard writers, the student may go into the shop and apply that knowledge in a thoroughly practical manner. With this theoretical preparation, the mind grasps the salient points and avoids the difficulties of the more practical part of the work. The work is carried on by aid of practice in the shops and drawing room, and by text-books and lectures.

First, the machinery of transmission is taken up and discussed, and especial attention paid to shafting, belts, speed pulleys, gear wheels, and kindred subjects. These lead the way to the higher forms of mechanism, and later the steam engine in its general principles and various forms is studied and discussed.

As stated above, the work in the class room is supplemented in every possible way by showing the student the practical application of these principles.

SHOPS, AND SHOP WORK.

The machine shop is a one-story brick building, 80x35 feet, and is joined at one end by the blacksmith shop, which is also brick. At the other end it is in connection with the carpenter shop, and above the latter are class rooms, and model room, fitted up with drawing and designing. This two-story building is also of brick, and was planned and built especially for this department. In beginning the practical work the student enters the carpenter shop, which is equipped with sets of tools and benches. Here each student has his own set of tools when at

work, and is held responsible for their condition. These tools are those which are in common use among carpenters, such as hammer, cross-cut and panel saws, square, mallet, chisels, gauge, planes, and dividers, and must be kept in order by the student using them. Thus, each student is taught in the beginning of his work not only the use of the tools, but also the importance of keeping them in good order, and in their proper places. The work in this department begins with the simplest exercises, which consist mainly in making those joints which are in common use. Each of these exercises depends more or less on those preceding it, and becomes more and more difficult as it nears the end, thus carrying the student from "squaring" a piece of wood to the construction of a small bridge truss. The work is carried on from drawings, similar to those found in any of our shops, and thus the student learns not only to read mechanical drawings, but to construct the article wanted with only such drawings for a guide.

Having finished the woodwork, and acquired a knowledge of edged tools, the student is transferred to the blacksmith shop. Here he finds the same ideas of responsibility and good order. There are twenty-one forges, supplied with a blast from a power blower, which is run by an engine built and set up by the graduating class of 1888. Here, as in the carpenter shop, the first exercises are very simple, becoming more and more difficult as they proceed, until, at the end, the student has made welds of different kinds, a chain with a hook and swivel, and has forged out and tempered several tools, such as cold chisels, punches, etc. After this, a move is made into the machine shop, where are found sixteen wood-turning lathes. On these he receives instruction in both inside and outside turning, everything being made according to drawings furnished. Then follows instruction in the use of iron-working machinery, for which there is the following equipment: Six engine lathes, planer, drill, shaper, and milling machine. With these machine tools are taught the principles of cutting and shaping the metals in common use. Throughout the course the student receives systematic instruction, and the work is so graded as to bring into use as far as possible those principles which have been taught him in the class room. The instruction throughout the course is made as practical as possible, and at the same time is of such a nature as to call for intelligent thought in connection with the manual labor. Special attention is called to the fact that all work is made, as far as possible, from drawings similar to those which the student will be called upon to use in any of our first-class machine shops, thus compelling him to think for himself, and avoid becoming a mere automaton. All tools are furnished by the College, with the exception of a two-foot rule.

DEPARTMENT OF MILITARY SCIENCE AND TACTICS.

CAPTAIN AVERY, U. S. ARMY.

The instruction in this department is in conformity with the act of Congress, which, in endowing this and similar institutions, stipulates that military tactics shall be taught.

An officer of the regular army is detailed, by direction of the President of the United States, to carry out this requirement of the act in question, and the necessary arms, accoutrements, and ammunition, are furnished by the general government without cost to the College.

During the fall and spring terms, practical military instruction is given in infantry and artillery drills, and the duties of guards and sentinels. During the winter term, all military exercises are suspended, except the regular guard and occasional short exercise drills. Instruction is given to the First Class in extended order drill, guards, outposts, camps, marches, and generally what will enable them to command a company in active service. During this term, the Second Class receives instruction in the section room in infantry tactics.

The instruction in this department is as thorough as practicable in the limited time allowed, in liberal compliance with the requirements of the act of Congress endowing the College. Practical military exercises are held at such hours as not to conflict with academic duties of students. The physical training of such exercises has the effect of straightening and strengthening the students, giving them an erect carriage and graceful bearing.

The military system is the means of enforcing discipline and securing regularity in the performance of academic duties, and tends to inculcate in the students that habit of truthfulness and manliness of character which characterizes young men as gentlemen.

DEPARTMENT OF PHYSICS.

PROFESSOR SPENCE.

The work of the lower classes in this department—consisting of the study of the general properties of matter, mechanics, pneumatics, hydrostatics, heat, light, and sound—is especially designed to prepare students for the more technical studies of the advanced classes. The study of electricity occupies three hours per week throughout the entire second class in the Engineering and Science Courses.

The texts are supplemented by the professor's notes, and in all cases fully illustrated by experiments performed before the classes. The solution of practical problems familiarizes the student with the principles and laws studied.

Text-Books: In Agricultural Course—A Text-book of Physics, *Wentworth and Hill.* In Engineering and General Science Courses—The Principles of Physics, *Gage;* Elementary Lessons in Electricity and Magnetism, *Thompson.*

The department is fairly well equipped with apparatus for performing the experiments described in the text-books studied.

Students who have their own cameras are allowed to use the department dark room.

The department library is open to the students one afternoon each week.

DEPARTMENT OF VETERINARY SCIENCE.

PROFESSOR FRANCIS.

The design in the course of veterinary science is two-fold. First, to acquaint the Agricultural students with the diseases of our domestic animals; and, second, to train their minds in sound and systematic methods of reasoning from cause to effect. To accomplish this, the instruction begins with the study of comparative physiology. This is presented by lectures, recitations, and demonstrations on the living subject. Comparative anatomy is treated in a similar manner. The horse is taken as the type, and dissections are made during the winter months.

This is presented in such a manner as not only to acquaint the student with the structure of the horse, but to teach him *how* to study organic bodies. Veterinary medicine and surgery are presented by systematic lectures on the diseases of animals, and their treatment.

Materia medica and therapeutics are given considerable attention.

These lectures are illustrated by a discussion of the drugs used by the veterinarian, and the methods of compounding and administering the same. Laboratory work consists in studying the microscopic structure of the tissues, the methods of hardening, sectioning, staining, and mounting. Each student is provided with a first-class microscope, ranging from 50 to 400 diameters, and all necessary requisites for prosecuting the work. The department is equipped with Azoux's model of the horse, complete, and several special pieces of the same material. We have, also, the skeleton of man, horse, pig, goat, and various other animals, mounted. There are also a considerable number of skulls and other bones, both healthy and diseased. There is also quite a collection of parasites,

tumors, monstrosities, dissected preparations, and surgical instruments belonging to the department. The library of the department is quite respectable, and contains all the standard works in English, and some in other languages. The total value of the equipment is about $3000.

GENERAL INFORMATION.

LOCATION.

The College is situated at College Station, in the county of Brazos, five miles south of Bryan, and ninety-five miles northwest of Houston. The Houston and Texas Central and the International and Great Northern railroads run through the grounds, daily trains stopping at the Station, about 650 yards from the main building. Students and visitors are advised to take trains arriving here in the daytime.

POSTOFFICE.

This is College Station, not Bryan. It is important that correspondents should observe this, since letters are often delayed by going to the latter place. College Station is a telegraph, express and money order office.

MAIN BUILDING.

The main building, erected in 1876, stands on the highest point of the grounds. It is four stories high, made of brick, with mansard roof and towers. The rooms are all of high pitch, and well ventilated. There are about forty rooms in the building. On the fourth story nearly half the space is occupied by the rooms assigned to the Drawing Department. The two society halls and the armory, are also on this floor. On the third floor are section rooms of the Departments of Languages, History, and Mathematics, the library and reading room. On the second floor are the President's office, the business office, the book store, the chemical laboratory and section room, and English section room. On the first floor are private chemical laboratory, furnace room, section room and office of the Department of Botany, store room, guard room, mathematical section room, commandant's office, and section room and laboratory of the Department of Veterinary Science. There are broad halls running through each story at right angles to each other, and two sets of stairways, one in the middle, the other at the end of the building.

SHOPS.

North of the main building are found those buildings occupied by the Department of Mechanical Engineering, which consists practically of one building, although made in two distinct parts. First, the one containing the carpenter shop, class rooms and model room; second, that containing the machine and blacksmith shops. The carpenter shop is fitted up with benches and tools for the accommodation of sixty pupils, while above it, on the second floor, are two class rooms and a model and designing room. Back of this are the other shops mentioned, in a building of one story. Power for the machine shop is furnished by an eighteen horse power Straight Line Engine, and that for the blacksmith shop by a five horse power engine, which was built and set up by the graduating class of 1888. The machine shop is equipped with sixteen wood turning lathes, circular, band, and jig saws, emory wheels stand, six engine lathes, planer, shaper, drill, and milling machine. The blacksmith shop has twenty-one forges, with necessary tools, power blast, and exhaust fan.

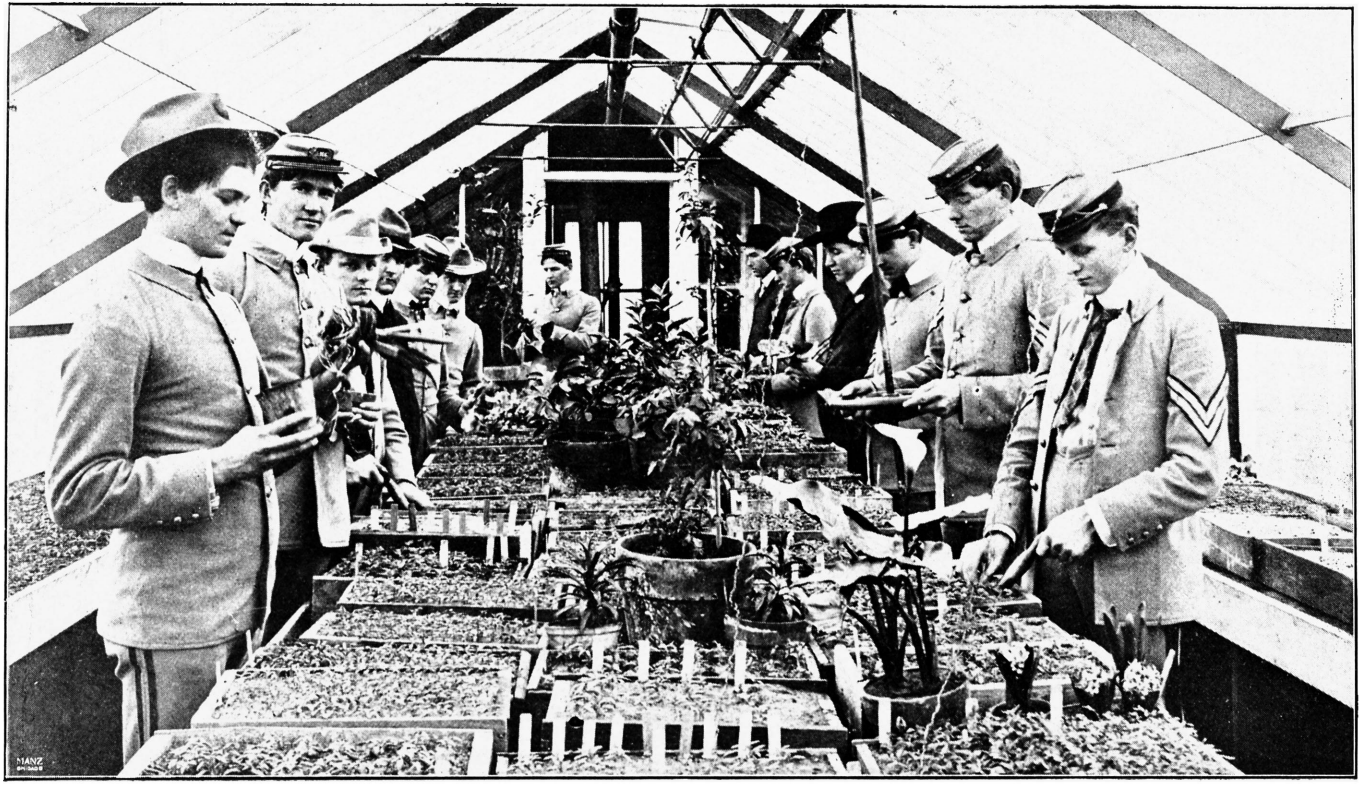
AGRICULTURAL-HORTICULTURAL BUILDING.

This building was planned to accommodate the agricultural and horticultural features of the College and Experiment Station by furnishing specially designed rooms for class instruction, laboratory investigations, museum purposes, butter and cheese making, pasteurizing milk, canning fruits and vegetables, seed store room, photographic room, and the necessary offices for the accommodation of these departments.

It is 160 feet long by 77 feet in width, covered with slate. It contains twenty-seven rooms, fitted with the best apparatus and machinery now in use for the instruction of students in the several branches of agriculture. The live stock room permits the introduction of animal subjects for the purposes of class instruction. The butter and cheese room contains the best dairy machinery. The canning and evaporating rooms are equipped for the practical instruction of students in these lines of work. The building, with its equipment, largely increases the efficiency of these two departments.

THE CHEMICAL AND VETERINARY LABORATORY.

The Twenty-seventh Legislature, at its last session, appropriated $31,000 for this building, and plans have been accepted. It will be a two-story brick, and will contain about eighteen rooms. Laboratories, section rooms, and offices, will be well lighted, well ventilated, and conveniently arranged. Class room and laboratory instruction in both the departments of Chemistry and Veterinary Science will be greatly improved when the building is completed, and it is expected that it will be ready for occupancy by January, 1903.



HORTICULTURAL PRACTICE IN GREEN HOUSE.

GATHRIGHT HALL.

This building was erected in 1876, and contains dormitories, accommodating ninety-nine students. The section rooms and instrument rooms of the Departments of Civil Engineering and of Physics are also in this building. It is named in honor of Thomas L. Gathright, the first President of the College.

PFEUFFER HALL.

This building, erected in 1887, is for a dormitory, and has capacity to accommodate seventy-five students. It is named in honor of Hon. George Pfeuffer, a former President of the Board of Directors.

AUSTIN HALL.

This is a dormitory, erected in 1888, and has capacity to accommodate seventy-five students. It is named in honor of Stephen F. Austin.

ROSS HALL.

This is another and more commodious dormitory, three stories high, with forty-one rooms, erected in 1892, and has accommodations for one hundred and twenty-five students. It is named in honor of the late President L. S. Ross.

FOSTER HALL.

This building was erected in 1899, and is named in honor of the late President L. L. Foster. It is a dormitory, and consists of three separate parts; the central one is four stories high and contains nineteen rooms; the two ends are three stories high and contain eighteen rooms each; the building has a capacity for one hundred and sixty-five students.

ASSEMBLY HALL.

This is a two-story brick building, erected in 1889, having a main floor and a gallery. In it are held the public exercises of the College, and examinations for large classes.

MESS HALL.

This building was erected in 1897. Its dining hall has capacity for over five hundred students.

INFIRMARY.

This is a two-story building, erected in 1895. It contains four large wards with toilet rooms, and four small rooms for special cases, accommodating thirty-six patients. It contains also the surgeon's offices and nurses' rooms.

The surgeon will give his attention to all students without charge other than the regular medical fee of five dollars, paid by each student upon entrance.

A competent trained nurse is in constant attendance at the Infirmary, thus insuring the best of care for those who are sick.

NATATORIUM.

The natatorium, erected in 1894, is a frame building surrounding a swimming pool. This latter is 25x50 feet in size, having a depth from three and one-half to seven feet. Around this pool are arranged dressing rooms, bath rooms, and shower bath.

The water is supplied from a deep well and is what is known as "white sulphur" water. All students have access to these advantages at times fixed by schedule for the different classes.

FARM BUILDINGS.

These are situated several hundred yards in the rear of the main building. They consist of two large barns, a milking shed, and a piggery.

There are connected with one of the barns four large silos owned by the Agricultural Experiment Station, and students will have the advantage of practical instruction in the construction of silos and the best methods of preparing ensilage.

OTHER IMPROVEMENTS.

Other improvements comprise a laundry, with full capacity to meet the demands of the College; an ice plant with a daily capacity of five tons; a complete system of water works; a sewerage system; an electric light plant, of full capacity for lighting grounds and buildings; a fire-proof artillery shed, for protection of two three-inch breech-loading rifled cannon, furnished by the United States government for the College.

LANDS.

The county of Brazos donated to the College two thousand four hundred and sixteen acres of land lying on each side of the two railroads, five miles from Bryan and ninety-five from Houston.

GROUNDS, FARM AND GARDEN.

The garden, orchard, barn yards, and campus are included in the enclosure to the east of the railroad station. The campus, which consists of some twenty-five acres of lawn, shrubbery, and flowers, surrounds the College buildings. Roses bloom in great profusion and variety on the campus nearly every month in the year.

The orchard, vineyard, nursery, and garden are located north and east

of main College building. About fifty acres are devoted to this work. The object of this work is two-fold: First, to test the numerous varieties and methods adapted to this soil and climate; second, to give object lessons to students, and thus serve to illustrate the lecture room work in teaching.

The farm comprises about 350 acres, not including pasture lands. These pastures contain in the neighborhood of two thousand acres, and furnish grazing for the College herds of registered and other cattle consisting of Holsteins and Jerseys and a number of high grade cows. The supply of milk used at the Mess Hall is derived from this source, and at certain seasons of the year a part of the butter used is made at the College creamery.

LIBRARY AND READING ROOM.

A valuable library and reading room have been provided for the use of the students. The library now comprises standard works of history, biography, agriculture, mechanics, engineering, mathematics, natural science, political economy, mental and moral philosophy, poetry, general literature, and reference.

LIST OF PERIODICALS AND PAPERS.

The following papers have been contributed to the library by the publishers, excepting those marked with an (*), which have been subscribed for:

Agriculture.

Acker's Gartenbau Zeitung, Milwaukee.
American Dairyman, New York.
*American Gardening, New York.
American Sheep Breeder, Chicago.
Bulletin Séances de la Societé de l'Agriculture, Paris.
Bulletin Ministère de l'Agriculture, Paris.
*Country Gentleman.
Farm and Fireside, Springfield, Ohio.
Farm and Home, Springfield, Miss.
Farm, Field and Fireside, Chicago, Ill.
Farming, Toronto, Canada.
Farmer's Call, Quincy, Ill.
Farm Journal, Philadelphia.
Farmer's Review, Chicago, Ill.
Farmer's Voice, Chicago, Ill.
Kansas Farmer, Topeka, Kans.
Massachusetts Plowman, Boston, Mass.
Mirror and Farmer, Manchester, N. H.
Metropolitan and Rural Home, New York.
Our Grange Homes, Boston, Mass.
*Rural New Yorker.
*Southern Cultivator, Atlanta, Ga.

Southern Planter, Richmond, Va.
Texas Farm and Ranch, Dallas, Texas.
Wisconsin Agriculturist, Racine, Wis.

Stock.

American Sheep Breeder, Chicago, Ill.
*Breeder's Gazette, Chicago, Ill.
Texas Stockman and Farmer, San Antonio, Texas.

Lumber.

Southern Industrial and Lumber Review, Houston, Texas.

Dairy.

Hoard's Dairyman.
*Architecture and Building, New York.
Jersey Bulletin, Indianapolis, Ind.

Mechanical.

*American Machinist, New York.
*Dixie, Atlanta, Ga.
*Power, New York.
*Railroad Gazette, New York.

Scientific.

*Botanical Gazette, Chicago, Ill.
Drainage Journal, Indianapolis, Ind.
*Electrical World, New York.
*Engineering News, New York.
*Engineering Magazine, New York.
*Engineering and Mining Journal, New York.
*Nature, London, Eng.
*Physical Review, New York.
*Popular Science Monthly, Boston, Mass.
*Scientific American and Supplement, New York.
*Science, New York.

Military.

*Journal of the Military Service Institute, New York.

Literary.

*Atlantic Monthly.
*Century, New York.
*Cosmopolitan, New York.
*Cumulative Index, Cleveland, Ohio.
*Fortnightly Review, London.
*Forum, New York.
*Frank Leslie's Monthly.
*Harper's Monthly, New York.
*Literary Digest, New York.
*Littell's Living Age, Boston, Mass.
*Nation, New York.
*North American Review, New York.
*Public Libraries, Chicago.

*Public Opinion.
*Review of Reviews.
*Scribner's Magazine, New York.

Religious.

Christian Observer, Louisville, Ky.
Southwestern Presbyterian, New Orleans.
Texas Baptist and Herald, Dallas, Texas.
Western Recorder, Louisville, Ky.

Juvenile.

*St. Nicholas, Boston, Mass.
*Youth's Companion, Boston, Mass.

Illustrated.

*Harper's Weekly, New York.
*Puck, New York.
*Ueber Land und Meer, Berlin, Germany.

Educational.

*Texas School Journal, Austin, Texas.

General News.

Bellville Wochenblatt, Bellville.
Brazos Pilot, Bryan.
Brazos Blade, Bryan.
Bryan Evening Pilot, Bryan.
Daily Bryan Eagle, Bryan.
Daily Examiner, Navasota, Texas.
*Dallas News, Dallas.
Denison Herald, Denison.
Eagle Pass Guide, Eagle Pass.
Floresville Chronicle, Floresville.
Franklin Herald, Mount Vernon.
Freie Presse für Texas, San Antonio.
Gainesville Signal, Gainesville, Texas.
Georgetown Signal, Georgetown.
*Houston Post, Houston.
Industrial Press, Rusk, Texas.
Jacksboro Gazette, Jacksboro.
La Grange Journal, La Grange.
Mason County News, Mason.
Midland Gazette, Midland.
Navasota Weekly Review, Navasota.
New Boston Herald, New Boston, Texas.
*New York World (Weekly), New York City.
Nord Texas Presse, Dallas.
Palestine Semi-Weekly, Palestine.
Pearsall News, Pearsall, Texas.
*Picayune (Weekly), New Orleans.
*Saturday Evening Post, New York.

Seguin Enterprise, Seguin.
Semi-Weekly Times, Palestine.
Standard-Herald, Rusk.
Sunday Gazette, Denison.
Svoboda, La Grange, Texas.
The Truth, Corsicana, Texas.
Traveler's Record, Hartford.
Uvalde News, Uvalde.
Van Alstyne News, Van Alstyne.
Victoria Review, Victoria.
Vorwärts, Austin.

LITERARY SOCIETIES.

There are two literary societies at the College—the Austin and the Calliopean. They meet weekly in their respective halls for practice in debate, literary composition, and declamation. Public debates are held frequently during the session, and speakers are invited to deliver addresses.

RELIGIOUS AND MORAL CULTURE.

There is religious service in the chapel every Sunday for the corps of students and the residents of the campus. A Sunday school for Bible study, attendance at which is optional, affords additional help in the way of ethical training. Every effort is made through lecture and personal example to develop and protect good morals in the young men attending the institution.

HYGIENE.

The buildings of the College stand on a prairie "divide" from the slope of which there is good drainage. There is nothing in the vicinity of the College to produce malarial sickness, and there is very little of it here.

For protection of health, drinking water should always be of the purest and best. The College furnishes carefully collected cistern water, properly filtered through charcoal before it enters seven of the main cisterns.

The barracks are inspected daily and are kept clean throughout; the rooms are well ventilated and comfortable.

Great care is taken to see that the food served in the Mess Hall is abundant, palatable, and wholesome. The practice of eating between meals is undoubtedly very injurious to health. It is, therefore, very desirable that parents should refrain from sending boxes of delicacies to their sons. Exercise derived from drill, work, field and shop practice, as well as the facilities offered for out-door athletic sports, contributes to the health and physical development of the student.

Most of the sickness occurring at the College results from the student's own indiscretion in not taking care of himself; or from the introduction

of some mild epidemic like measles; or from the development of a disease already implanted in his system before coming here.

SEWERAGE SYSTEM.

The College is now provided with an efficient system of sewers to which are connected the various Barracks, the Main Building, the Agricultural and Horticultural Hall, the Steam Plant, the Infirmary, the Mess Hall and several of the residences. The outfall of the system is three-fourths of a mile from the nearest College building and nine-tenths of a mile from the nearest recitation hall or barrack building.

TO PARENTS AND GUARDIANS.

The necessity for uninterrupted attention to their studies on the part of students can not be too strongly urged. It is impossible for a young man to become interested in his work here if he is permitted to leave the College whenever any special amusement is advertised in our neighboring towns and cities. It is, therefore, respectfully asked that those who send their sons or wards here do not, except in the most pressing emergencies, request permission for them to leave their studies.

Whenever the parent or guardian shall leave the application for special permits to the discretion of the son or ward, the College authorities will judge of the propriety of granting such permits.

MILITARY ORGANIZATION AND DISCIPLINE.

For the purpose of maintaining good order and discipline, as well as for the proper execution of the law of Congress requiring military instruction of the students, they are organized into a battalion of four companies and staff. The battalion is under the immediate command of the Commandant. The officers, commissioned and non-commissioned, are students taken for the most part from the First and Second Classes. They are appointed by the President of the College upon the recommendation of the Commandant, and their appointment and rank are made to depend upon the active and soldierly performance of their duties, their sense of duty and responsibility, and their general good conduct and class standing.

All permits for privileges and explanations for delinquencies must be submitted through the Commandant.

GENERAL REGULATIONS.

It is understood that every student upon entering the College pledges himself to an honest effort to observe the regulations and sustain the authorities in the maintenance of discipline.

The strictest attention to study, and the most exact punctuality in

attendance on recitations and other duties, will be made the condition of every student's continuance at the College, and any student who without authority absents himself from recitations or any other duty, deserts his class, or refuses to attend when warned, shall be dismissed, or less severely punished, at the discretion of the Faculty.

Students are forbidden to enter into combinations under any pretext whatever. One who shall begin, excite, cause or join in any boisterous or riotous conduct, or become a party to any agreement to avoid or violate any regulation, to hold no intercourse with a comrade, or to do any act to the prejudice of good order and military discipline, shall be dismissed.

If any student shall be guilty of hazing, or of inciting others thereto, he shall be expelled, and it shall be the duty of the President to place opposite his name in the Catalogue the words, "expelled for hazing."

Students are prohibited, under the penalty of dismissal, from having in their possession ammunition, weapons, or arms not issued for the performance of military duty; nor shall these be retained loaded in quarters under any pretext.

A student who shall drink, or bring, or cause to be brought within the cadets' limits, or have in his room, or otherwise in his possession, any fermented or intoxicating liquor, or fruits or viands preserved in intoxicating liquor, shall be dismissed or otherwise punished, at the discretion of the Faculty.

No student shall have in his possession or play at cards or games of chance, engage in a raffle, or in any manner wager money or other things, on penalty of dismissal.

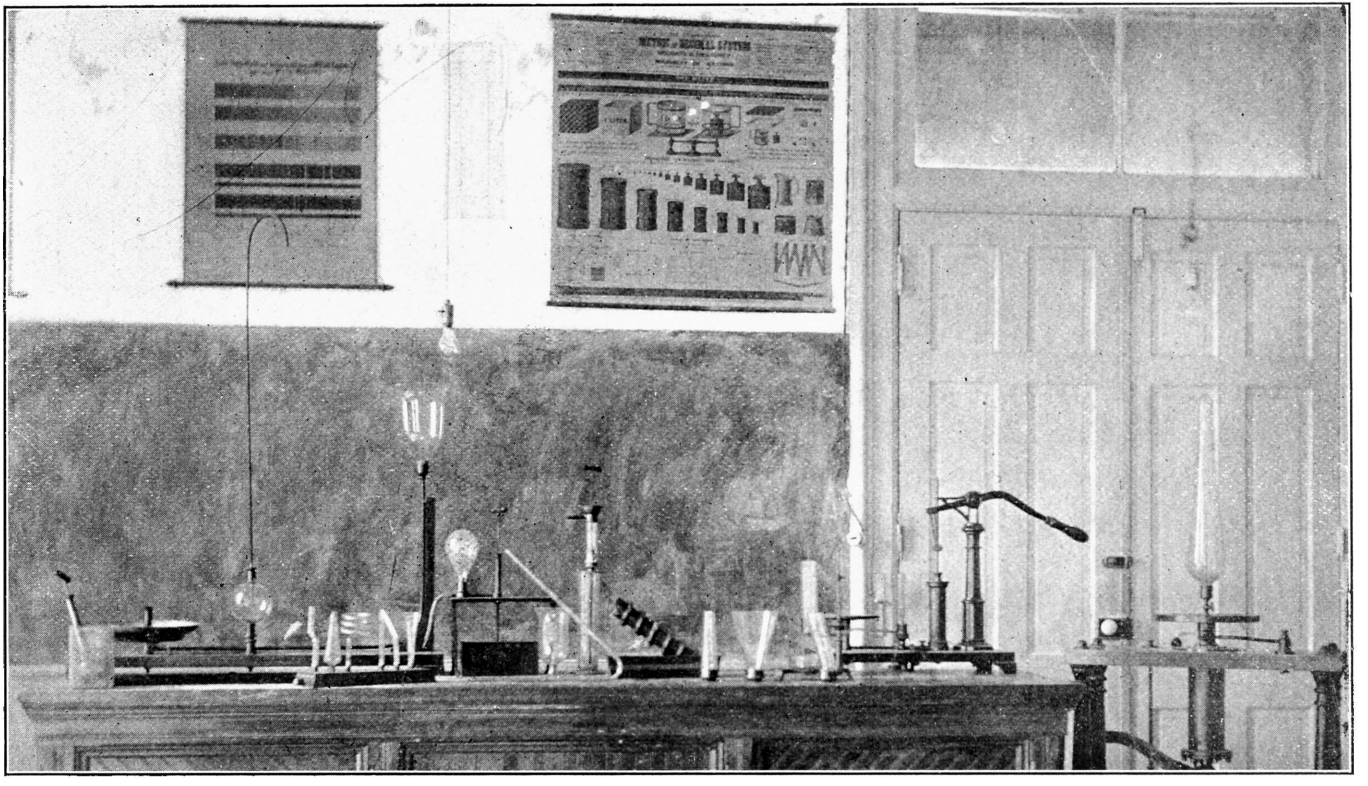
Permission to visit the houses of private parties, beyond the limit of the College campus, or to attend places of public amusement, will not be granted during the term, except from Friday afternoon to Sunday afternoon, at the discretion of the President.

No student is allowed to leave the College during the session without permission of the President of the College, on application through the Commandant.

A student who shall cut, mark, or otherwise injure or deface the buildings, furniture, or appurtenances, the trees, shrubbery, greensward, grounds, fences, stables, or outhouses, or who shall lose, injure, destroy, or improperly dispose of the arms, accoutrements, or other property of the College, shall make good all damage, and be dismissed or otherwise punished according to the nature of the offense.

When the responsibility for the destruction of State property can not be fixed upon any one, the amount of the damage will be assessed against the occupants of a room or division of the entire body of students, as the case may require.

Students receive the admonition and counsel of the President before being subjected to any penalty, except in the case of flagrant offenses.



HYDROSTATICS.

Those who are habitually neglectful of their duties, or who do not regularly attend their classes, will be required to withdraw from the College.

To each recorded delinquency a number of from one to ten, proportional to the degree of the offense, in a moral and military view, is assigned to express demerit.

Any student receiving demerits as follows shall be declared deficient in conduct and subject to dismissal: In the First Class: in the fall term 40, winter term 30, spring term 30, in the year 100; in the Second Class: in the fall term 60, winter term 50, spring term 40, in the year 150; in the Third Class: in the fall term 80, winter term 60, spring term 60 in the year 200; in the Fourth Class: in the fall term 100, winter term 75, spring term 75, in the year 250.

AFFILIATED SCHOOLS.

The Faculty desire to bring the College into closer relations with the schools of the State, by providing that graduates of approved schools may be admitted to the College on diploma or certificate *at the beginning of the session* without examinations. Superintendents who desire to have their schools enrolled among such affiliated schools are invited to examine the requirements for admission, and to the specimen examination questions on pages 23 to 27.

The offer of affiliation is made upon the following terms. The superintendent of a school desiring affiliation should obtain from the President of the College a form of application to be filled out and returned. If the application should be approved by the Faculty, the superintendent will be notified and the name of the school and those of the superintendent and the principal enrolled in the Catalogue. The diploma of an affiliated school will admit the candidate to the Fourth Class, Engineering or General Science Course, or to the Third Class, Agricultural Course. The privilege of affiliation will be withdrawn from any school whose graduates show a lack of thoroughness in their preparation for the work of the College.

Catalogues of the College will be sent regularly to the principals of affiliated schools, and they in turn will be expected to send the President copies of their reports or catalogues.

LIST OF AFFILIATED SCHOOLS.

Albany Public School.....Albany.
Supt. A. Cochran.

Allen Academy ..... Bryan.
Principals J. H. and R. O. Allen.
Anson High School ..... Anson.
Supt. Cecil E. Evans.
Atlanta City School ..... Atlanta.
Supt. G. W. Florence.
Austin Academy ..... Austin.
Principal J. Stanley Ford.
Bastrop Public School ..... Bastrop.
Supt. W. A. Palmer.
Beaumont High School ..... Beaumont.
Supt. F. A. Parker.
Beeville High School ..... Beeville.
Supt. T. G. Arnold.
Bellville High School ..... Bellville.
Supt. C. W. Feuge.
Bonham High School ..... Bonham.
City Supt. Sumner B. Foster.
Bowie High School ..... Bowie.
Supt. Thomas W. Platt.
Brackett High School ..... Brackettville.
Ex-Officio Supt. R. Stratton. Principal H. W. Goodwin.
Brenham Central School ..... Brenham.
Supt. E. W. Tarrant. Principal Miss Mary Rial.
Brownwood High School ..... Brownwood.
Supt. F. D. Shepard. Principal W. S. Fleming.
Bruce Acadamy ..... Athens.
Supt. W. H. Bruce.
Bryan High School ..... Bryan.
Supt. T. S. Minter. Principal S. H. Hickman.
Calvert Public School ..... Calvert.
Supt. D. F. Eagleton.
Cameron High School ..... Cameron.
Supt. A. N. W. Smith. Principal John F. O'Shea.
Central Texas Institute ..... Moody.
Principal, S. J. Yewis.
Clarksville High School ..... Clarksville.
Supt. W. C. James. Principal Miss Ella Watson.
Cleburne Acadamy ..... Cleburne.
Supt. K. A. Berry.
Cleburne High School ..... Cleburne.
Supt. V. M. F. Fulton. Principal R. G. Hall.
Cole's Classical and Military School ..... Dallas.
Superintendent, J. R. Cole.
Columbus High School ..... Columbus.
Principal J. E. Binkley.
Comanche High School ..... Comanche.
Supt. W. F. Rogers. Principal A. W. Evans.
Copperas Cove High School ..... Copperas Cove.
Supt. J. L. Hicks.
Corpus Christi High School ..... Corpus Christi.
Supt. C. W. Crossley. Principal M. Menger.

Corsicana High School.....Corsicana.
Superintendent, H. S. Melear. Principal, J. B. Stevenson.
Coryell City School.....Coryell City.
Supt. A. M. Sams.
Crawford High School.....Crawford.
Supt. J. F. Ellis.
Cuero Public School.....Cuero.
Supt. Thos. M. Colston. Principal L. G. Covey.
Dallas High School.....Dallas.
Supt. J. L. Long.
Del Rio Incorporated School.....Del Rio.
Supt. A. H. Horn.
Denison High School.....Denison.
Supt. J. E. Blair. Principal N. N. Marsh.
Devine High School.....Devine.
Supt. and Principal C. C. Harris.
The Douglas-Schuler School.....Waco.
Principal, S. A. Douglas.
Dublin High School.....Dublin.
Supt. W. J. Clay. Principal J. C. Harper.
Elgin High School.....Elgin.
Supt. R. R. Eason.
Ennis High School.....Ennis.
Supt. H. F. Triplett. Principal S. A. Horton.
Evant High School.....Evant.
Supt. R. L. Bewley.
Flatonia High School.....Flatonia.
Superintendent, J. W. Hoke. Principal, Miss Ida Williamson.
Fort Worth High School.....Fort Worth.
Supt. M. G. Bates.
Gainesville High School.....Gainesville.
Supt. E. F. Comegys. Principal J. P. Glascow.
Gatesville Public School.....Gatesville.
Supt. Dan E. Graves.
Georgetown High School.....Georgetown.
Supt. D. L. Hamilton. Principal W. N. Bird.
Gladewater High School.....Gladewater.
Supt. J. H. Smith.
Glen Rose High School.....Glen Rose.
Principal J. M. Templeton.
Goldthwaite High School.....Goldthwaite.
City Supt. Eugene Oliver.
Gonzales Public School.....Gonzales.
Supt. T. L. Toland.
Graham High School.....Graham.
Supt. J. N. Johnson. Principal H. Fowler.
Granger High School.....Granger.
City Supt. J. H. Vanambargh. Principal R. H. Long.
Greenville High School.....Greenville.
Hamilton High School.....Hamilton.
Principal J. J. McCullom.

Henderson High School.....Henderson.
Supt. T. R. Day.
Hico Graded School.....Hico.
Supt. J. N. Davis.
Hillsboro High School.....Hillsboro.
Supt. T. S. Cox. Principal Miss Addie Robert.
Honey Grove High School.....Honey Grove.
Supt. F. M. Bralley. Principal W. A. Stuckey.
Houston High School.....Houston.
Supt. W. W. Barnett.
Huntsville Public School.....Huntsville.
Principal J. W. Clark.
Hutto High School .....Hutto.
Superintendent, W. H. Ernest.
Jacksboro High School.....Jacksboro.
Supt. J. K. Webster. Principal Lewis Johnson.
Karnes City High School.....Karnes City.
Principal A. S. J. Steele.
Kaufman Public School.....Kaufman.
Supt. C. J. Maxwell.
Kenedy High School.....Kenedy.
Supt. A. N. McCollum.
Kosse High School.....Kosse.
Supt. S. S. Munroe. Principal W. M. Pendergraft.
Kyle High School.....Kyle.
Supt. W. A. Laughlin.
Lampasas High School.....Lampasas.
Supt. J. W. Brooks.
Ledbetter Public School.....Ledbetter.
Supt. R. M. Gannon.
Lewis Academy .....Forney.
Supt. E. C. Lewis.
Liberty Normal and Business College.....Liberty.
Supt. D. L. Hamilton.
Lindale High School.....Lindale.
Supt. O. P. Norman.
Marlin High School.....Marlin.
C. P. Hudson, Superintendent.
Marshall High School.....Marshall.
Supt. W. H. Atteberry. Principal A. L. Plummer.
Madison Academy .....Madisonville.
City Supt. J. J. Jopling. Principal C. C. Hayes.
McGregor High School.....McGregor.
Supt. R. Lee Abbott.
McKinney Public School.....McKinney.
Supt. J. C. Ryan, A. M. Principal S. H. Home.
Navasota High School.....Navasota.
Supt. B. H. Brown. Principal Miss Elizabeth Blackshear.
New Braunfels Academy.....New Braunfels.
Principal J. G. Neuss.
Orange High School.....Orange.
Supt. R. R. Sebring. Principal J. W. Mills.

Paris High School.....Paris.
Supt. J. G. Wooten. Principal E. L. Dohoney, Jr.
Peacock's School for Boys.....San Antonio.
Supt. Wesley Peacock.
Plano High School.....Plano.
Supt. C. P. Hudson. Principal W. E. McKnight.
Port Lavaca High School.....Port Lavaca.
Supt. W. T. Smith. Principal J. W. Smith.
Quanah High School.....Quanah.
Supt. C. W. Howard. Principal W. B. Quighley.
Richland Grammar School .....Richland.
Supt. J. W. Miller.
Rock Island High School.....Rock Island.
Supt. and Principal C. D. Jessup.
Rock Springs High School.....Rock Springs.
Principal D. C. Braylis.
Runge High School.....Runge.
Supt. F. Z. T. Jackson.
San Antonio Academy.....San Antonio.
Supt. Wm. B. Sealey.
San Saba Public School.....San Saba.
Supt. G. H. Hagan.
San Antonio High School.....San Antonio.
Principal W. Z. Champion.
Santa Anna High School.....Santa Anna.
Principal, W. Z. Champion.
Sherman High School.....Sherman.
Supt. P. W. Horn. Principal B. W. Glasgow.
State Institution for the Blind.....Austin.
Supt. H. L. Piner.
Taylor High School.....Taylor.
Supt. W. M. Williams.
Temple High School.....Temple.
Supt. J. F. Kimball.
Terrell High School.....Terrell.
Supt. S. W. N. Marrs.
Texarkana High School.....Texarkana.
Supt. W. Owens. Principal W. S. Staley.
Tivy High School.....Kerrville.
Supt. J. G. Toland. Principal A. C. Johnson.
Troupe High School.....Troupe.
Superintendent, M. M. Dupree. Principal, Thomas Mitchell.
Tyler High School.....Tyler.
Supt. J. L. Henderson. Principal W. T. Adams.
Valley Mills High School.....Valley Mills.
Principal W. J. Hixson.
Waco High School.....Waco.
Supt. J. C. Lattimore.
Waxahachie High School.....Waxahachie.
Supt. W. S. Acker. Principal C. T. Taylor.
Weatherford High School.....Weatherford.
Supt. J. B. Rogers. Principal T. W. Stanley.

West Paris High School.....Paris.
Supt. and Principal J. W. Cunningham.
Wichita Falls High School.....Wichita Falls.
Supt. W. F. Jordan. Principal C. H. Letzevich.
Wortham High School.....Wortham.
Supt. S. W. Pettus.
Yoakum High School.....Yoakum.
Supt. J J. Kilpatrick.

DEGREES AND HONORS.

Conferred at Commencement, June, 1901.

DEGREE OF B. S. (in Agriculture).

W. T. Garbade, J. J. Hooper, S. F. McConnico, R. J. Rhome, T. M. Smith, I. O. Wyse.

DEGREE OF B. S. (in Civil Engineering).

R. M. Brown, E. B. Fehrenkamp, S. J. Fountain, T. L. Fountain, M. L. Kleinsmith, J. H. Simpson, C. A. Thanheiser.

DEGREE OF B. S. (in Mechanical Engineering).

R. E. Coulter, R. Eberspacher, H. E. Elrod, W. M. Rust, Jr., M. F. Thomas, R. W. Yarbrough.

HONOR GRADUATES—SESSION 1900-1901.

Fountain, T.; Thomas, Rust.

HONOR MEN BY CLASSES.

First Class—Fountain, T.; Thomas, Rust.
Second Class—Moore, Carpenter, Foy.
Third Class—Mansfield, Pirie, Deilharz.
Fourth Class—Watson, Echols, Dahme.

DISTINGUISHED STUDENTS BY DEPARTMENTS.

FIRST CLASS.

Agriculture—Rhome, Hooper, Garbade.
Botany—Garbade, Wyse, McConnico.
Chemistry—Thomas, Garbade, Eberspacher.
Civil Engineering—Fountain, T.; Thanheiser, Fehrenkamp.
Drawing—Civil Engineering: Fountain, T.; Thanheiser. Mechanical Engineering: Thomas, Rust.
English—Fountain, T.; Thanheiser, Thomas.
History—Thanheiser, Fountain, T.; Kleinsmith.
Language—Fountain, T.; Kleinsmith, Simpson.
Mathematics—Fountain, T.; Thanheiser, Fehrenkamp.
Mechanical Engineering—Thomas, Rust, Eberspacher.
Military Science—Kleinsmith, Taylor, Elrod.
Veterinary Science—Garbade, Hooper, Smith.

SECOND CLASS.

Agriculture—Moore, Carpenter, Youngblood.
Botany—Moore, Harrington, Carpenter.
Chemistry—Agricultural: Moore, Harrington. Mechanical Engineering and Civil Engineering: Rice, Barham.
Civil Engineering—Batte, Olds, Markham.
Drawing—Civil Engineering: Dean, Olds. Mechanical Engineering: Neff, Gillespie.
English—Carpenter, Robertson, Barham.
History—Moore, Eppright, Carpenter.
Horticulture—McDonald, Lawley.
Mathematics—Moore, F.; Foy, Carpenter.
Mechanical Engineering—Barham, Kloss, Foy.
Military Science—Foy, Rice, Moore, F.
Veterinary Science—Carpenter, Youngblood, Harrington.

THIRD CLASS.

Agriculture—Young, McKee, Heldenfels.
Botany—McKee, Heldenfels, Polk.
Civil Engineering—Mansfield, Mathews, Pirie.
Drawing—Agricultural: Devine, Dealy. Civil Engineering and Mechanical Engineering: Briggs, Risien.
English—Mansfield, Butler, Oliphint.
History—Mansfield, Beilharz, Pirie.
Horticulture—Young, Williamson, McKee.
Language—Mansfield, McGregor, Beilharz.
Mathematics—Mansfield, Risien, Oliphint.
Mechanical Engineering—Beilharz, Wallace. Civil Engineering: Pirie, Mansfield.
Physics—Mansfield, Pirie, Mathews.
Veterinary Science—Williamson, Heldenfels, Young.

FOURTH CLASS.

Agriculture—Watson, Dahme, Storms.
Botany—Watson, Kunitz, Bauer.
Drawing—Echols, Dibrell, Dahme.
English—Echols, Watson, Cook.
History—Bauer, Storms, Dahme.
Mathematics—Watson, Bauer, Echols.
Mechanical Engineering—McKay, Young, Eidelbach.
Physics—Bauer, Echols, Watson.

BATTALION ORGANIZATION FOR 1901-1902.

F. P. AVERY, Captain U. S. A., Commandant.

Staff
- Kerr, I. J., First Lieutenant and Adjutant.
- Carpenter, M. M., First Lieutenant and Quartermaster.
- Barham, G. S., First Lieutenant and Private Secretary.
- Abrahams, M. L., Sergeant-Major.
- Odom, Quartermaster-Sergeant.
- Sanders, P. L., Sergeant and Battalion Clerk.
- Akers, Postmaster.

CAPTAINS.

Co. A.	*Co. B.*	*Co. C.*	*Co. D.*
Foy, V. H.	Markham, E. L.	Rawlins, S. A.	Gleason, H.

FIRST LIEUTENANTS.

Kloss, E.	Acker, L.	Rice, E. R.	Youngblood, B.

SECOND LIEUTENANTS.

Ross, R.	Eppright, F. G.	Harrington.	Ridenhower, R.
Ross, J.	Lawley.	Strieber.	Alexander, R. L.

FIRST SERGEANTS.

Erhard, E. C.	Mansfield, R. H.	McLavy.	Harral, A. G.

COLOR SERGEANT.

Oliphint.

SERGEANTS.

Wallace.	Baum, J. A.	Beilharz, W. E.	Worthing.
McKee.	McGregor, F.	Warden, T. B.	Davis, J. M.
Barham, R. E.	McKnight, O. J.	Stapp.	Williams, I. L.
Kinsloe, R. H.	Meyer, H. J.	Heidelberg.	Range.
			Miles.

CORPORALS.

Bauer.	Horton.	Cruse.	Mallory.
Echols, R. T.	Chinn.	Ligarde.	Pape.
Dahme.	Yocom.	Lockman.	Cook.
Hampton.	Lowther.	Kyle.	Davenport.
Hamner.	Cobbs.	Knolle.	Elam.
Benjamin.	Moser.	Bernay.	Hill.
Reiger.	McFaddin.	Bunnell.	
Wheeler.		Stone.	
Walker.			

Artillery.

Second Lieutenant Garnett, R. M.
Sergeant Dealy, G. W.

Band.

First Lieutenant Harrison, J.
Sergeant Risien, G. W.
Corporals Dahlgren and Olsen.

Signal Corps.

Sergeant McCall.

BATTALION REVIEW.

COMMENCEMENT EXERCISES.

June 9, 10 and 11, 1901.

PROGRAMME.

SUNDAY, JUNE 9.

9 a. m.—Inspection of Cadet Quarters by College Officers and Visitors.
11 a. m.—Commencement Sermon by Rev. C. McPherson, of Fort Worth.
6:30 p. m.—Sacred Concert.
8:30 p. m.—Address before the College Young Men's Christian Association.

MONDAY, JUNE 10.

9 to 11 a. m.—Inspection of Departments, Including Exhibition of Live Stock, Farm Machinery, Dairy Machinery, Cannery, Apparatus and Appliances for Instruction. Display of Products of Students' Work. Students at Work in Shops.
11:30 a. m.—Joint Celebration of Literary Societies.
4 p. m.—Individual Competition Drill for Company Medals.
5:30 p. m.—Dress Parade.
8:30 p. m.—Public Meeting Alumni Association. Alumni Address by Maj. H. P. Jordan, Waco. Oration by Hon. M. H. Gossett, Kaufman.

COMMENCEMENT DAY.

TUESDAY, JUNE 11.

10 a. m.—Prayer.
Reading of Thesis by First Honor Graduate (best three years' grade, all courses).
Valedictory Address—H. E. Elroy, of Columbus (elected by the First Class).
Response to the Valedictory—M. M. Carpenter, of Sour Lake (elected by the Second Class).
Commencement Address by Hon. W. A. Shaw, of Dallas.
Announcement of those Distinguished in the Several Classes and Departments.
Conferring Degrees by the President of the Board of Directors.
Benediction.
4 to 4:30 p. m.—Drill by Foster Guards.
4:45 p. m.—Battalion Drill.
6:30 p. m.—Graduation Dress Parade.

GRADUATING CLASS.

(With subjects of their Theses.)

AGRICULTURAL COURSE.

W. T. Garbade, Witting, "Texas Petroleums."
J. J. Hooper, Houston, "The Economic Production of Pork in Texas."

A. C. Moser, Dallas, "The Comparison of the Cartilages of the Larynx of the Horse and Ox."

S. F. McConnico, Bryan, and I. O. Wyse, Bryan, "The Percentage of Lime in Texas Soils and its Influence on their Fertility."

R. J. Rhome, Fort Worth, and T. M. Smith, Columbia, "Texas Fever."

CIVIL ENGINEERING COURSE.

R. M. Brown, Austin, "Modern Methods of Sewage Purification."

C. S. Clark, Albany, and T. L. Fountain, Bryan, "A Macadamized Toll Road to Connect College with Bryan.'

J. Ehrhardt, Westfield, "Design for a Wooden Highway Bridge Sixty Feet Span."

E. B. Fehrenkamp, Frelsburg, and T. H. Garrett, Jr., Coit, "A Spur Track from the H. & T. C. R. R. to the A. and M. College."

S. J. Fountain, Bryan, "Design for a College Building for Civil Engineering and Drawing."

M. L. Kleinsmith, Luling, and C. A. Thanheiser, Fayetteville, "An Electric Car Line from College to Bryan."

J. H. Simpson, Columbus, "A Plan for the Construction of a Water Power System at Columbus, Texas."

MECHANICAL ENGINEERING COURSE.

P. Dross, Bellville, "Freight and Passenger Elevators."

R. Eberspacher, Angleton, "Liquid Fuel."

R. E. Coulter, Texarkana, and H. E. Elrod, Columbus, "The Westinghouse Air Brake."

W. M. Rust, Jr., Seguin, and R. W. Yarbrough, Greening, La., "Plan for an Iron Foundry for the A. and M. College."

M. F. Thomas, Clay, "Equipment for a Cotton Mill."

ALUMNI.

ALUMNI ASSOCIATION.

(Organized 1886.)

ORGANIZATION FOR 1901-1902.

P. S. Tilson, '88, President.....College Station.
F. Lewis, '94, Vice-President.....Muskogee, I. T.
Chas. Rogan, '79, Vice-President.....Austin.
R. L. Barclay, '98, Vice-President.....Crenshaw.
L. D. Amsler, '89, Vice-President.....Hempstead.
E. W. Kerr, '96, Secretary and Treasurer.....College Station.
W. Wipprecht, '84, Member Executive Committee.....Bryan.

EXECUTIVE COMMITTEE.

P. S. Tilson, '88. W. Wipprecht, '84. E. W. Kerr, '96.

On the following pages are given the names of all graduates of the College, with the courses of study pursued and the degrees obtained; their occupations and residences are also given as far as known. The alumni are requested to aid the President in making the roll as accurate as possible.

From the opening of the College in 1876 to its reorganization in 1880, the studies were elective, and led to appropriate degrees. In 1880 two graduates received the degree of Civil Engineer (C. E.).

From 1881 to 1887, there were two prescribed courses, the Agricultural and the Mechanical, but no degrees were given.

From 1888 to 1895, there were four prescribed courses, leading to the degrees of Bachelor of Scientific Agriculture (B. S. A.); Bachelor of Civil Engineering (B. C. E.); Bachelor of Scientific Horticulture (B. S. H.); Bachelor of Mechanical Engineering (B. M. E.).

Since 1895 the four prescribed courses have remained the same, but the degree in each has been Bachelor of Science (B. S.), the particular course being specified in the diploma.

Names of deceased alumni are marked (*).

ABBBEVIATIONS.

COURSES OF STUDY:—A., Agriculture; M., Mechanical; H., Horticulture; C. E., Civil Engineering.

SUBJECTS:—Ch., Chemistry; E., English; F., French; G., German; Gr., Greek; L. Latin; Math., Mathematics; P., Physics; Philos., Philosophy; S., Spanish.

DEGREES:—B. S. A., Bachelor of Scientific Agriculture.
B. S. H., Bachelor of Scientific Horticulture.
B. M. E., Bachelor of Mechanical Engineering.
B. C. E., Bachelor of Civil Engineering.
B. S., Bachelor of Science.
M. S., Master of Science.
M. E., Mechanical Engineer.
C. E., Civil Engineer.

Name.	Year	Subject or Course.	Degree.	Occupation.	Residence.
Abbott, E. G.	1894	C. E.	B. C. E.	1st Lieutenant U. S. A.	
Abbott, H. T.	1898	H	B. S.	Horticulturist	Weatherford.
Abrahams, J. E.	1900	M. E.	B. S.	Inspector Air Brake Dept. I. & G. N. R. R.	Palestine.
Adams, A. S.	1895	C. E.	B. C. E.	Asst. Eng. H. & T. C. R'y	Fort Worth.
Adams, F. L.	1892	A	B. S. A.	Physician	Stafford.
*Adriance, D.	1886	A	M. S. '90		Bryan.
Ahrenbeck, W. T.	1891	M. E.	B. M. E.	Minister	Cuero.
Alexander, D. E.	1880	E. L. Math.			
Allen, L. E.	1887	M		Bookkeeper	Marlin.
Allen, W. H.	1888	A	B. S. A.	Druggist	Marlin.
Altgelt, E. J.	1892	C. E.	B. C. E.		Alpine.
Amsler, L. D.	1889	M. E.	B. M. E.	C'h'r Farm's Nat. Bnk.	Hempstead.
Amthor, A. W.	1895	C. E.	B. C. E.	Civil Engineer	Waco.
Anderson, W. D.	1890	A	B. S. A.	Mng'r Ice Works	Waxahachie.
Andrews, V.	1884	M		Physician	Valley View.
Armstrong, M. F.	1882	M		Farmer and Merchant.	Chappel Hill.
Astin, E. H.	1899	M. E.	B. S.	Planter	Mumford.
Backus, U. J.	1890	M. E.	B. M. E.	B'kk'r Rio Brav. C. Co.	Eagle Pass.
Bailey, C. O.	1892	C. E.	B. C. E.	Cash'r First Nat. Bank.	Bartlett.
Baker, J. J.	1879	F. E. Philos. S.		Merchant	Homer, La.
Baker, Searcy	1882	M		M'n'g'r Pen't'y Store	Huntsville.
Banks, A. L.	1879	G	B. S. '92 M. S. 94.	Assoc. Prof. Math.	College Station.
Barclay, R. L.	1898	M. E.	B. S.	Merchant	Crenshaw.
Barnes, R. M.	1898	M. E.	B. S.	General Merchant	Abilene.
Barnes, S. E.	1899	A	B. S.	Instructor in Dairying U. of Tenn.	Knoxville, Tenn.
Beesley, W. S.	1892	C. E.	B. C. E.	Salesman	Lancaster.
Beyer, F. C.	1892	M. E.	B. M. E.	Ginner	Marion.
*Biberstein, F. R.	1882	M			
Biering, S. R.	1900	C. E.	B. S.	Clerk G. C. & S. F. R'y.	Galveston.
Bittle, T. C., Jr.	1900	C. E.	B. S.	Assayer and Engineer.	Rio Balsas. Guerro, Mexico.
Bittle, P. B.	1896	A	B. S.	Teacher	Henderson.
Bittle, W. A.	1894	A	B. S. A.	Teacher	Washington, La.
Black, M.	1879	Philos. E.		Minister	Sterling City.
*Blakemore, T. E.	1880	E. Math.			
Bland, L. F.	1899	A	B. S.	Med. Stu. U. of Texas.	Galveston.
Bledsoe, F. F.	1880	E. Gr.		Teacher	Mabank.
Bloor, A. W.	1895	A	B. S. A.		Manor.
Blount, S. L.	1896	A	B. S.	Vet. Sur.	Temple.
Bocock, J. H.	1894	A	B. S. A.	Stock farmer	Crystal, Va.
Boettcher, R. B.	1900	M. E.	B. S.	Stockman and farmer.	Weimar.
Boykin, R. E.	1892	M	B. M. E.	Teacher	Mt. Calm.
*Braun, P.	1888	M	B. M. E.		San Antonio.
*Brittingham, W. F., Jr.	1890	C. E.	B. C. E.		
Bretschneider, W.	1898	C. E.	B. S.	Asst. Engr. Bay Prairie Irr. Co.	Lane City.
Brewer, H. A.	1899	M. E.	B. S.	Planter	Lytton Springs.
Brogdon, S. T.	1898	M. E.	B. S.	Architect'l draftsman.	Beaumont.
Brown, R. M.	1901	C. E.	B. S.	Rodman	Couchatta, La.
Brown, T. H.	1879	S.		Sugar planter	Houston.
Brown, W. H.	1880	C. E.	C. E.	Planter	Navasota.
Bruce, E. L.	1894	C. E.	B. C. E.	Lawyer	Mineola.
Bryan, B. F.	1897	A	B. S.	Student	Boulder, Colo.
Bryan, W. I.	1900	M. E.	B. S.	Inst'r in Carpentry A. & M. College.	College Station.

Name.	Year	Subject or Course.	Degree.	Occupation.	Residence.
Buckman, C. A	1889	C. E.	B. C. E.	Clerk	Denison.
Buford, F. L.	1892	C. E.	B. C. E.	Ass't Eng. G.C.&S.F.Ry	Silsbee.
Buhler, C. M.	1897	M. E.	B. S.	Aud. Office S. P. R'y	New Orleans.
Buhler, C. W.	1892	C. E.	B. C. E.	Chief Car. Dept. S. A. & A. P. Ry.	San Antonio.
Buhler, W. A.	1900	M. E.	B. S.	Draftsm. S.A.&A.P.Ry.	San Antonio.
Bullard, T. O.	1899	M. E.	B. S.		
Burck, L. B	1889	C. E.	B. C. E.	Secy. and Treas. So. Coffee Co.	Galveston.
Burford, J. M.	1882	M		Physician & Surgeon	Independence.
Burghard, C. L.	1886	M		Cash'r Bank of Goliad.	Goliad.
Burgoon, C. E.	1895	M. E.	B. M. E. M. E. '99.	Chem. Eng. T. & N. O. Wood Preserv'g Wks.	Houston.
Burleson, R. W	1895	M. E.	B. M. E.	Deputy district clerk	San Saba.
Burney, J. W.	1896	M. E.	B. S.	Stockman	Kerrville.
*Caldwell, J. C.	1883	M			
Campbell, D.	1879	S.		Stockman	Alpine.
Campbell R. W	1899	M. E.	B. S.	Bookkeeper R. R. Construction Co.	Marshall.
Carson, A. B.	1897	C. E.	B. S.	Eng. Dept. Arkansas & Choctaw Ry.	Durant, I. T.
Carson, J. M.	1886	A		Bookkeeper	Fort Worth.
Carson, J. W.	1886	A		Farm Superintendent.	College Station.
Carson, R. C.	1899	M. E.	B. S.	Tapeman A. & C. R'y Eng. Corps.	Mayhew, I. T.
Carter, J. D	1900	C. E.	B. S.	Instrumentman M o. Pac. R'y.	St. Louis.
Carter, W. T., Jr.	1898	A	B. S.	Fellow A'gr'l Chemistry.	State College, Pa.
Caruthers, F.	1885	A		Cash'r U. S. land office.	Oklahoma, O. T.
Caven, G. P.	1897	A	B. S.	Sten. Freight office T. & P. Ry.	Dallas.
Cavitt, W. H.	1897	M. E.	B. S.	With Cartwright Oil Co.	Beaumont.
Chambers, M. L.	1879	G		Real Estate & Loans	Fort Worth.
Clark, H.	1895	A	B. S. A.	Physician.	Crowell.
Clayton, W. D.	1897	A	M. S.	Foreman Exp. Farm	New Orleans, La.
Clement, T. H., Jr.	1900	C. E.	B. S.	Transitman	Burnet.
Cobb, S. A.	1896	C. E.	B. S.	Civil Engineer	Muskogee, I. T.
Cochran, E. G.	1879	F. Philos.	E.	Druggist and Surgeon.	Royse.
Cohn, S. L.	1897	C. E.	B. S.	Attorney	Ennis.
Cook, E. A.	1892	M. E.	B. M. E.		Cleburne.
Cottingham, I. A.	1886	M		Div. Eng. S. P. Ry.	El Paso.
Cottingham, W. P.	1892	C. E.	B. C. E.	Draftsman K. C. S. Ry.	Kansas City, Mo.
Cotton, H.	1897	C. E.	B. S.	Insurance	Dallas.
Couch, E.	1897	M. E.	B. S.	Draftsman	Dallas.
Coulter, H. T.	1895	H	B. S. H.	Physician	Rockdale.
Coulter, W. J.	1895	M. E.	B. M. E.	Merchant	Bryan.
Coulter, R. E.	1901	M. E.	B. S.	Foreman Fuel Dept. T. & P. Ry.	Texarkana.
Cousins, R. W.	1899	M. E.	B. S.	Electrician, Gen. Electric Co.	Schenectady, N.Y.
Cox, D. W. S.	1892	C. E.	B. C. E.	Clerk C. S. Oil Mill	Temple.
Cravens, J. R.	1882	M		Gen. Ag't Fire In	Dallas.
Crow, W. E.	1898	H	B. S.	Physician	Dallas.
Cunningham, A	1879	L. Gr. G. Math. Ch. P.		R'y Postal Clerk	Denver, Col.
Cushing, E. B.	1880	M	C. E. '99.	Chief Eng. S. P. R. R.	Houston.
Cushing, D.	1891	M. E.	B. M. E.	Pharmacist	Columbus, Miss.
Dashiell, W. R.	1891	C. E.	B. C. E.	Physician	San Antonio.
Davis, J. N.	1885	M		Supt. Pub. Schools	Hico.
Dawson, N. A.	1884	M		Lawyer	Austin.
Dazey, W. L.	1894	C. E.	B. C. E.	Dentist	Hillsboro.
Dietert, R. H.	1888	M. E.	B. M. E.	Car Foreman H. & T. C. Ry.	Houston.
Donalson, C. B., Jr.	1898	M. E.	B. S.	Relief Agent and Operator.	Kyle.
Downs, J. R.	1879	L. G.		Lawyer	Waco.
Downs, P. L.	1879	L. Gr. G.		Cash'r 1st Nat'l Bank	Temple.
Drisdale, W. E.	1889	H	B. S.	Physician	Santa Fe, N. M.
Dudley, F. E.	1885	M		Stockman	Banning, Cal.
*Dugan, G. H.	1381				
Duggan, A. P.	1895	C. E.	B. C. E.	Attorney at Law	Stamford.
Dwyer, W. F.	1899	A	B. S.		San Marcos.
Edwards, J. F.	1883	M		Merchant	Denton.
Eberspacher, G.	1896	M. E.	B. S.	Machinist	Port Corinto, Nic.
Eberspacher, R.	1901	M. E.	B. S.	Assistant Engineer	College Station.
Eldridge, H. M.	1897	C. E.	B. S.	County Surveyor	Montgomery.
Ellis, B. V.	1892	A	B. S. A.	Physician	Paris.
Ellis, Fort O.	1894	C. E.	B. C. E.	Manager Com's'y So. States Lumber Co.	Millview, Fla.
Elrod, H. E.	1901	M. E.	B. S.	Structural Engineer, Mosher Mfg. Co.	Dallas.

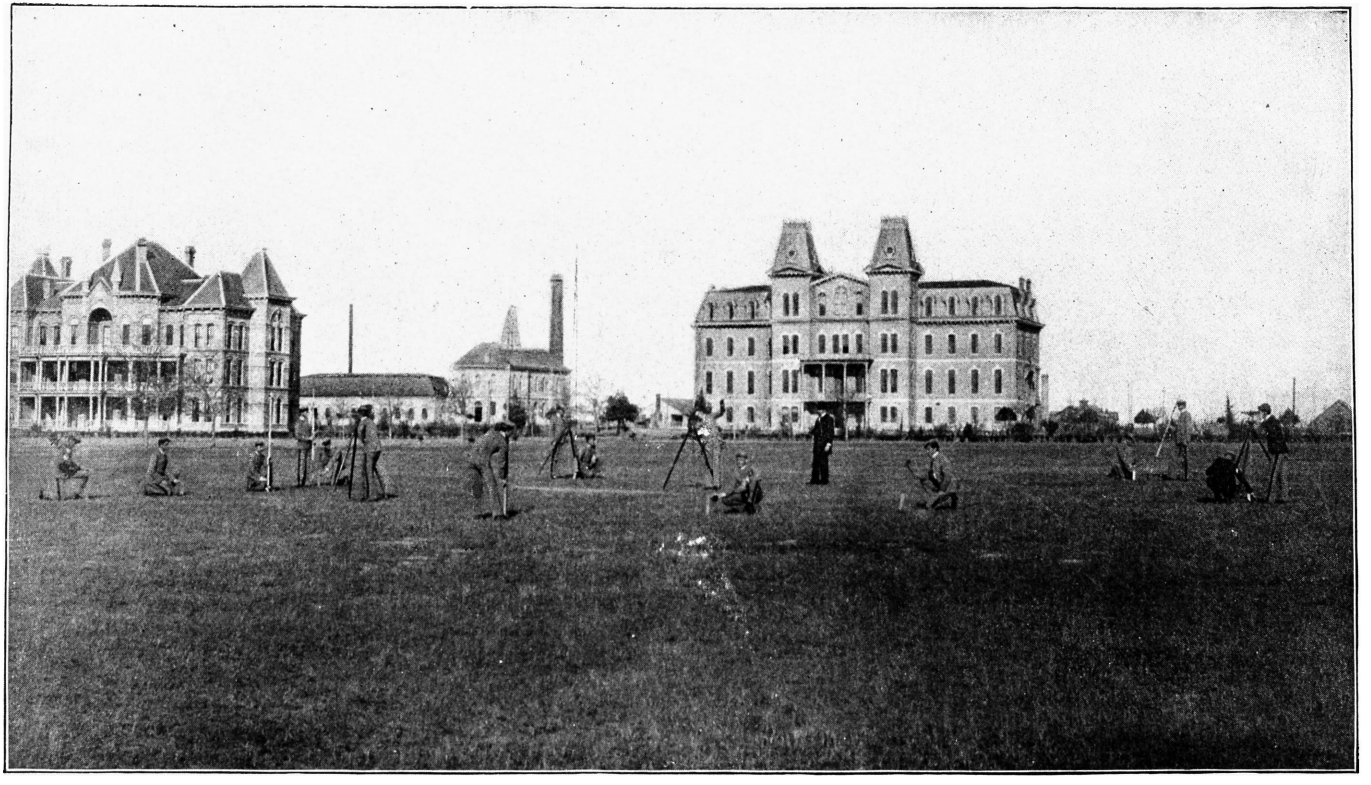
Name.	Year	Subject or Course.	Degree.	Occupation.	Residence.
Evans, C. D.	1899	C. E.	B. S.		
Farmer, A. G.	1895	M. E.	B. M. E.	Stockman	Roosevelt.
Faust, H.	1900	M. E.	B. S.	Student U. of T.	Austin.
Faust, W.	1897	C. E.	B. S.	Assistant Cashier 1st National Bank.	New Braunfels.
Fearhake, J. D.	1889	C. E.	B. C. E.	Attorney	New York.
Fehrenkamp, E. B.	1901	C. E.	B. S.	Civil Engineer	Frelsburg.
Ferguson, A. M.	1894	H	B. S. H. M. S. '96.	Instructor Botany U. of T.	Austin.
Field, H. Y.	1891	A	B. S. A.	Clerk Justice Court	Dallas.
Finney, C. B.	1896	C. E.	B. S.	Civ. Eng. and Mining	C. P. Diaz, Mex.
Fitzgerald, A. H.	1895	A	B. S. A.	Pharmacist	Gonzales.
Fitzgerald, L.	1900	M. E.	B. S.	Asst. in Lab. of Gas works.	Cleveland, O.
Fitzhugh, E. E.	1880	E. L. Math		Fire Insurance	Waco.
Floyd, J. F., Jr.	1892	M. E.	B. M. E.	Merchant	Ada.
Flynt, H. C.	1890	A	B. S. A.	Stockman	Waelder.
Fort, F. W.	1879	L. Gr. G.		Wholesale Grain	Waco.
Fordtran, F. L.	1887	A		Physician	Kerrville.
Fowler, E. G. R.	1894	C. E.	B. C. E.	Lawyer	Palestine.
Fountain, S. J.	1901	C. E.	B. S.	Architect'l Draftsman	Austin.
Fountain, T. L.	1901	C. E.	B. S.	M. of W. Dept., S. P. Ry.	San Antonio.
Foutrel, G. F.	1898	M. E.	B. S.	Machinist	San Antonio.
Freeman, J. H.	1887	M		Insurance Agent	Austin.
Fuller, T. A.	1879	G		Lawyer	San Antonio.
Garbade, W. T.	1901	A	B. S.	Med. Student U. of T.	Galveston.
Garrett, T. H., Jr.	1901	C. E.	B. S.	Eng. Corps, T. & N. O.	Rusk.
Giesecke, F. E.	1886	M	M. E. '92	Prof. Drawing	College Station.
Giesecke, G.	1884	M		Merchant Miller	San Antonio.
Giesecke, W. E.	1892	M. E.	B. M. E.	Cons't Eng. Torreon Met. Co.	Torreon, Mex.
Gilbert, J.	1894	A	B. S. A.	Physician & Surgeon	Bastrop.
Gilmore, H. A.	1896	M. E.	B. S.	Electrician	Lakeside.
Glover, W. F. H.	1898	A	B. S.	Planter	Yemassee, S. C.
Goldberg, I. L.	1896	H	B. S.	Merchant	Jefferson.
*Graves, C. S.	1882	M			
Gray, J. L.	1884	M		Civil Engineer	
Green, R. B.	1884	M		Lawyer and Co. Judge.	San Antonio.
*Greenwood, F. J.	1898	C. E.	B. S.		Stonebam.
Griffiths, T. W., Jr.	1900	M. E.	B. S.	Lumber Dealer	Dallas.
Gruene, E.	1887	M		Teacher	New Braunfels.
Grupe, G.	1892	M. E.	B. M. E.	Supt. Steam Plant	College Station.
Gurley, D. R., Jr.	1892	C. E.	B. C. E.	Farmer	Waco.
Hanschke, R., Jr.	1890	M. E.	B. M. E.	Sec'y Freie Presse fuer Texas Pub. Co.	San Antonio.
*Hare, H. C.	1887	M			Sherman.
Hare, S. A.	1882	M		Lawyer	Sherman.
Harrison, O. C.	1899	H	B. S.	Sci. Aid U. S. Dept. Agr.	Washington, D.C.
Harrison, W. A.	1898	H	B. S.	Trav. Salesman, Reid Coal Co.	Dallas.
Hawkins, J. W.	1893	A	B. S. A.	Lawyer	Halletsville.
Haden, J. H.	1879	S		Farmer	Blooming Grove.
Henderson, H. W.	1891	A	B. S. A.	Cotton Buyer	Ladonia.
Hereford, J. B.	1887	M		Fire Ins., Special Agt. and Adjuster.	Dallas.
Hernstadt, S. J.	1890	C. E.	B. C. E.	Stockman	Groesbeck.
Hildebrandt, A. M.	1896	H	B. S. M. S. '98.	Editor	San Antonio.
Hoffman, F. C.	1888	M. E.	B. M. E.	Jeweler	New Braunfels.
Homann, A. C.	1898	M. E.	B. S.	Bookkeeper	Yukon, O. T.
Holman, J. R.	1895	C. E.	B. C. E.	Ass't Eng. S. P. Ry.	Rusk.
Hooper, J. J.	1901	A	B. S.	Post Grad. Student	College Station.
Hopkins, S. H.	1890	A	B. S. A.	Attorney	Gonzales.
Horn, T. L.	1899	M. E.	B. S.	Track Dep. G. C. & S. F. Ry.	Sanger.
Hough, S. A.	1885	M		Lawyer and Co. Judge.	Rock Springs.
Houston, F. N.	1894	C. E.	B. C. E.	Roadm. H. & T. C. Ry.	Ennis.
Howell, J. W.	1894	A	B. S. A.	Merchant	Bryan.
Howell, R. W.	1896	A	B. S.	Merchant	Bryan.
Hudgins, F. D.	1897	C. E.	B. S.	Res. Eng. A. & C. Ry.	Marshall.
Hutchinson, E. W.	1889	C. E.	B. C. E.	Merchant	Houston.
Hutchinson, O. D.	1893	A	B. S. A.	Farmer and Stockman.	Waldron, I. T.
Hutchinson, W. F.	1897	C. E.	B. S.	Hardware clerk	Denton.
Hutson, A. C.	1900	C. E.	B. S.	Instrumentman G. C. & S. F. Ry.	Honea.
Hutson, H. L.	1896	M. E.	B. S.	Draftsman	New Orleans.
Hutson, W. F.	1895	A	B. S. A.	Engn'g Dept. S. P. Ry.	Houston.
*Jack, D. M.	1879	L. Gr. Philos. E			
Jahn, F. C.	1894	H	B. S. H.	Horticulturist	Gonzales.

69 14

Name.	Year	Subject or Course.	Degree.	Occupation.	Residence.
Japhet, G.	1894	M. E.	B. M. E.	Produce, Fruit & Commission Merchant.	Houston.
Jonas, E. C.	1894	C. E.	B. C. E.	With Div. Engr. G. H. & S. A. Eng'ng Dep.	San Antonio.
Jonas, H. F.	1888	C. E.	B. C. E.	Ch'f Draftsman, M. of W. Dept., S. P. Ry.	Houston.
*Jones, W. T.	1889	C. E.	B. C. E.		
Jordon, H. P.	1895	C. E.	B. C. E.	Att'y & Counselor at Law & Ass't Co. Atty.	Waco.
Josey, N. L.	1888	A	B. S. A.	Merchant	San Antonio.
Kahn, M. S.	1900	H	B. S.	Med. Student Tulane University.	New Orleans, La.
Kell, E.	1894	M. E.	B. M. E.	Mechanical Engineer.	New Orleans, La.
Kennedy, O.	1883	M.		Attorney at Law	Groesbeck.
Kerr, E. W.	1896	M. E.	B. S. M. E. '99.	Ass't Prof. Mch'l Eng.	College Station.
Kerr, J. G.	1898	A	B. S.	Farmer	Vineland.
Kleinsmith, M. L.	1901	C. E.	B. S.	Civ. Engineer	Dallas.
Knolle, A. P.	1888	C. E.		Physician	Ellinger.
Knolle, B. E.	1884	M.		Physician.	Industry.
Knolle, E. R.	1887	M.		Physician	Wesley.
Knolle, O. J.	1897	A	B. S.	Physician	Industry.
Knolle, W. H.	1888	C. E.	B. C. E.	Physician & Surgeon	New Orleans, La.
Kopke, L. J.	1880	C. E.	C. E.	Civ. Engineer and Real Estate Agent.	Beaumont.
Kuehne, J. F.	1889	M. E.	B. M. E.	Mn'f'g and Com. Agt.	Mexico City.
Kyle, A. J.	1897	A	B. S.	Stockman	Portales, N. M.
Kyle, E. J.	1899	H	B. S.	Student	Ithaca, N. Y.
Kyle, H. C.	1896	A	B. S.	Stock Farmer	Nursery.
Kyle, J. A.	1890	A	B. S. A.	Physician & Surgeon	Houston.
*Kyle, T. M.	1893	M. E.	B. M. E.		Nursery.
Law, F. M.	1895	A	B. S. A.	Bank Bookkeeper	Bryan.
Leggett, W. K.	1889	C. E.	B. C. E.	Infantry, U. S. Army	Manila, P. I.
Lewis, F.	1894	C. E.	B. C. E.	U. S. Surveyor	Muskogee, I. T.
Lewis, J.	1900	A	B. S.	Student	Ames, Ia.
Lewis, L. L.	1893	A	B. S. A. M. S. '94.	Prof. of Zoology and Vet. Science.	Stillwater, O. T.
Lewis, M.	1899	M. E.	B. S.	Draftsman	St. Paul, Minn.
Lipscomb, R. S.	1882	M.		Physician	Grapevine.
Littlejohn, R. G.	1891	C. E.	B. C. E.	Fire In. Special Agent.	Ft. Worth.
Love, A. C.	1899	C. E.	B. S.	Ass't Prof. Drawing	College Station.
Luckett, W. H.	1891	A	B. S. A.	Physician & Surgeon	New York.
*Luckett, W. M.	1894	M. E.	B. M. E.		Bastrop.
*Luhrsen, C. W.	1900	C. E.	B. S.		Stratton.
Mabry, R.	1889	C. E.	B. C. E.		
Mackenson, B. C.	1884	M.		Teacher	San Antonio.
Mackenson, L.	1885	M.		Poultry Breeder	Houston.
Martin, E. L.	1899	C. E.	B. S.	Ass't Eng. H., E. & W. T. Ry.	Houston.
Martin, H. B.	1895	M. E.	B. M. E.	Civil Engineer	
Martin, W. C.	1898	H	B. S.	Ass't Prof. Chemistry.	College Station.
Massenberg, W. G.	1894	C. E.	B. C. E.	Div. Engineer G. C. & S. F.	Kountze.
McConnico, S. F.	1901	A	B. S.		Bryan.
Mead, J.	1897	C. E.	B. S.	Ass't Eng. I. & G. N. Ry.	Marlin.
*Merrit, W. B.	1889	A	B. S. A.		McKinney.
Merriwether, W. T.	1891	C. E.	B. C. E.	Civil Engineer	Eagle Lake.
Middlebrook, E. S.	1889	C. E.	B. C. E.	Lawyer	Columbus.
Middlebrook, R. M.	1891	M. E.	B. M. E.	Attorney at Law	Columbus.
Miley, J. H.	1896	C. E.	B. S.	Attorney at Law	Smithville.
Miller, C. S.	1880	E. L.		Lawyer and Land Agt.	Ballinger.
Miller, H. J.	1883	M.		Merchant	Bellville.
Mitchell, A.	1894	C. E.	B. C. E.	Princ. Public School	Cumby.
Mitchell, W. H.	1893	C. E.	B. C. E.	Druggist	Holland.
Monroe, J. S.	1900	C. E.	B. S.	Civ. Eng. Dep't B. & Q. S. Ry.	Rio Grande.
Montgomery, F. L.	1889	A	B. S. A.	Lawyer	Sherman.
Moore, R.	1892	A	B. S. A.	Druggist	Tilden.
Moore, T. E.	1892	A	B. S. A.	Physician	San Antonio.
Moore, W. M.	1895	C. E.	B. C. E.	Cotton Factor	McKinney.
Morrill, C. R.	1891	C. E.	B. C. E.	Div. Engineer S. P. Ry.	San Antonio.
*Mosely, W. E.	1883	M.			Jefferson.
Moursund, A. F.	1895	C. E.	B. C. E.	Roadmaster S. P. Ry.	Algiers, La.
Moursund, E. M.	1897	C. E.	B. S.		Fredericksburg.
Mouser, E. B.	1895	A	B. S. A.	Physician	Reinhardt.
Mullins, E. Y.	1879	L. G.		President S. B. T. S.	Louisville, Ky.
Myers, O. W.	1900	M. E.	B. S.	Farmer	Josephine.
Myers, W. G.	1894	M. E.	B. M. E.	Mining	Parral Chih., Mex.

67 27

Name.	Year	Subject or Course.	Degree.	Occupation.	Residence.
McCormick, Geo. Jr.	1891	M. E.	B. M. E.	Chief Draftsman Motive Dep't S. P. Ry.	Houston.
McColloch, C. C.	1886	M.		Surgeon U. S. Army	Manila, P. I.
McDonald, H. F.	1895	M. E.	B. M. E.	Student Iowa St. Col.	Ames, Iowa.
McGinnis, F. K.	1900	H.	B. S.	Farmer	Terrell.
McMillan, M.	1895	M.	B. M. E.	Physician & Surgeon	Puerto Principe. [Cuba,
MacNair, H. J.	1887	M.		Ass't Eng. Penn. Ry. Co.	Plymouth, Ind.
McNeill, J. C.	1896	C. E.	B. S.	Surveyor	Brazoria.
McQueen, T. B.	1884	M.		Bookkeeper	Marlin.
Neathery, D. E.	1892	A.	B. S. A.	County Treasurer	McKinney.
Ness, H.	1889	H.	B. S.	Professor of Botany	College Station.
Newton, G.	1898	A.	B. S.	Bookkeeper	Rockdale.
Nichols, J. F.	1889	H.	B. S.	Attorney	Greenville.
Nichols, J. R.	1889	A.	B. S. A.	Physician and Surgeon (first assistant).	Terrell.
Nichols, W. L.	1891	C. E.	B. C. E.	Chief Eng. S. L. & P. Co.	Dallas.
O'Bar, J. H.	1893	A.	B. S. A.	Cotton Buyer	Warrenton.
Oglesby, G. B.	1894	C. E.	B. C. E.	Asst. in Cons. Shannon Mfg. Co.	Clifton, Ariz.
Ortiz, J. A.	1892	C. E.	B. C. E.	Stockman	Laredo.
Overshiner, E. M.	1897	C. E.	B. S.	Lawyer	Lubbuck.
Park, C. M.	1896	C. E.	B. S.	Publisher	Dallas.
Parsons, B. C.	1893	H.	B. S. H.	Clerk Ft. Dep't M. I. R'y.	Eagle Pass.
Patrick, A. T.	1883	M.		Lawyer	New York.
Pearson, H. A.	1893	C. E.	B. C. E.	Planter	Troy.
Pennington, R. E.	1884	A.		Lawyer	Brenham.
Perlitz, W. E.	1893	C. E.	B. C. E.	Merchant	Schulenberg.
Pescay, C. H.	1885	M.		Spec. Ins. Agent	New Orleans.
Peters, R. F.	1894	M. E.	B. M. E.	Bookkeeper	Texarkana.
Pfeuffer, F. L.	1885	M.		Merchant	San Antonio.
*Pfeuffer, W. O. R.	1888	A.	B. S. A.		New Braunfels.
Pfeuffer, U. S.	1891	C. E.	B. C. E.	Lumber Merchant	New Braunfels.
Philpott, W. B.	1884	M.	M. S. '95	Prof. of English	College Station.
Pittuck, B. C.	1894	A.	B. S. A.	Ag'c'l'st Tex. Exp. Sta.	College Station.
Polk, W. A., Jr.	1895	C. E.	B. C. E.	Shipping Clerk Wholesale Groc. Co.	Corsicana.
Poulter, R. J.	1899	H.	B. S.	Merchant	Porters Bluff.
Radford, J. S.	1890	H.	B. S. H.	Manufacturer	Houston.
Ragsdale, J. W.	1890	A.	B. S. A.	Lawyer	Hallettsville.
Ratchford, W. P.	1892	M. E.	B. M. E.	Co. Surv. & Land Agt.	Fort Stockton.
Rawlins, H. E.	1898	M. E.	B. S.	Supt., Quarries Supply Co.	Campo Florida, Cuba.
Reichardt, F. A.	1879	G.		Cashier P. & M. Bank	Houston.
Rennert, F.	1888	A.	B. S. A.	Sec'y and Treas. Cotton and Com. Co.	San Antonio.
Rhodes, S. E.	1896	M. E.	B. S.	Ass't Draftsman Eng. Dept. S. L. S. W. Ry.	Tyler.
Rhome, R. J.	1901	A.	B. S.	Law Student	Austin.
Rice, D.	1882	M.		Public Weigher	Houston.
Rike, H. M.	1893	C. E.	B. C. E.	County Surveyor	Haskell.
Roach, G. W.	1884	M.		Teacher	El Paso.
Robson, C. G.	1898	H.	B. S.	Mgr. So'w'st'rn Tel. & Tel. Co.	La Grange.
Roderiquez, D.	1896	C. E.	B. S.	Civ. Eng. and Planter	Cp. Porfirio Diaz, Coah. Mexico.
Rogan, Chas.	1879	G. E. Ch. P.		Lawyer, Com. General Land Office.	Austin.
Rogers, B. F.	1889	C. E.	B. C. E.	Banker	Jefferson.
Rogers, C. P.	1900	H.	B. S.	Law Student	Austin.
Rogers, G. A.	1887	M.		Merchant	Longview.
Rogers, R. A.	1878	L. G. Gr. E. Phll. '79.		Cotton Factor & Commission Merchant.	Galveston.
Rollins, C. W.	1893	C. E.	B. C. E.	Civil Engineer	Beaumont.
Rollins, H. M.	1897	M. E.	B. S.	Inst'r in Machine Shop	College Station.
Rose, W. F.	1894	M. E.	B. M. E.	Draftman Or. R. & Nav. Co.	Portland, O.
Rosenthal, H. H.	1896	C. E.	B. S.	With Cal. Underwear Co.	San Francisco.
Ross, F. R.	1894	A.	B. S. A.	Physician State Lunatic Asylum.	Austin.
Ross, J. G.	1894	C. E.	B. C. E.	County Attorney	Cold Springs.
Rountree, T. D.	1898	C. E.	B. S.	Med. Student, U. of Va.	Charlottesville, Va.
Rowell, T. D.	1885	A.		Att'y at law & Co. judge.	Jefferson.
Rudasill, W. S.	1890	C. E.	B. C. E.	Stockman	Sherman.
Rust, W. M., Jr.	1901	M. E.	B. S.	Assistant Engineer	College Station.
Sanders, W. O.	1896	H.	B. S.	Wholesale Provisions	Bryan.
Sauvignet, E. H.	1892	A.	B. S. A.	Physician	Laredo.
Sawyer, R.	1882	M.		Lumber Merchant	Clarendon.
Scherer, C. L.	1896	C. E.	B. S.	Civil Engineer	Beaumont.
Scherer, W. A.	1898	H.	B. S.	Stockman	Anahuac.
Schmidt, C. L.	1890	M. E.	B. M. E.	Machinist M. N. Ry.	Laredo.
Schmidt, D. T. C.	1894	C. E.	B. C. E.	Ass't Foreman S. P. Ry.	Morgan City, La.
Schumacher, H. C.	1892	C. E.	B. C. E.	Wholesale Merchant	LaGrange.



PRACTICE IN CIVIL ENGINEERING.

Name.	Year	Subject or Course.	Degree.	Occupation.	Residence.
Sewell, M. S.	1894	C. E.	B. C. E.	Bookkeeper	McGregor.
Shires, F. N.	1897	M. E.	B. S.	Merchant	Wetumka, I. T.
Shires, G. M.	1897	M. E.	B. S.	Chief Engineer Houston Post.	Houston.
Shirley, A. L.	1884	A		Farmer and Merchant.	Anna.
*Shirley, M. W.	1889	M. E.	B. M. E.		McKinney.
Shirley, W. M	1889	C. E.	B. C. E.	Real Estate	McKinney.
*Shirley, Z. M.	1888	M. E.	B. M. E		McKinney.
Short, A. K.	1900	A	B. S.	Stock Farmer	Henrietta.
Short, J. L.	1893	A	B. S. A.	Physician & Surgeon	Houston.
Simpson, J. H.	1901	C. E.	B. S.	Rodman H. & T. C. Ry.	Lampasas.
Simpson, O. M.	1900	C. E.	B. S.	Civil Engineer for Nelson & White.	Beaumont.
Simpson, S. H.	1900	C. E.	B. S.	Ins't man S. P. Ry.	Houston.
Sleeper, W. M.	1879	L. Gr. G. M.		Lawyer	Waco.
Sloss, A. M.	1899	A	B. S.	Assayer	El Paso.
Smith, A. U.	1895	M. E.	B. M. E.	Eng. Dept. Consolidated St. Ry. Co.	Dallas.
Smith, E. J.	1888	A	B. S. A.	Attorney at Law	Denison.
Smith, T. L., Jr.	1898	C. E.	B. S.	Ass't Engr., Brazos Canal Co.	Fulshear.
Smith, T. M.	1901	A	B. S.	Bookkeeper	Columbia.
Smither, R.	1894	M. E.	B. M. E.	Grocer	Huntsville.
*Smythe, H. G.	1879	G			Bryan.
Sneed, G. L.	1898	A	B. S.	Ministerial Student	Tehuacana.
Soles, C. B	1899	M. E.	B. S.		Houston.
*Spann, E. W.	1885	M			
Speer, R. H.	1894	C. E.	B. C. E.	Stockman	Quanah.
Sternenberg, E. H.	1897	C. E.	B. S.	Teacher	Buckholt.
Steward, W. W.	1888	M. E.	B. M. E.	Mill and Gin	Steward's Mill.
Swain, M. S.	1888	H	B. S.	Stock and Bond Broker	Austin.
Talbot, A.	1882	M		Planter	Calvert.
Thanheiser, C. A.	1901	C. E.	B. S.	Eng. Corps, S. P. Ry.	El Paso.
Thomas, M. F.	1901	M. E.	B. S.	Mech. Draftsman	Fort Worth.
Thrower, J. D.	1900	A	B. S.	Superintendent ranch.	Bennett, I. T.
Tilson, M. D.	1886	M		Manufacturer and Merchant.	Texarkana.
Tilson, P. S.	1888	A	B. S. A. M. S., '94.	Associate Professor of Chemistry.	College Station.
Todd, A. M.	1894	C. E.	B. C. E.	U. S. Supt. of Const.	Greenville, Miss.
Todd, C. C.	1897	H	B. S.	1st Lieut. U.S.A., r't'r'd	Texarkana.
Tracy, H. H.	1898	C. E.	B. S.	Stock Farming	Tulia.
Trenckman, W. A.	1878	G. F.S., Phil., E., Ch., P., '79.		Newspaper Publisher	Bellville.
*Tuller, W. L.	1883	M			
Ueckert, H. H.	1897	C. E.	B. S.	Draftsman S. P. Ry.	Houston.
VanZandt, K. M., Jr.	1879	G		Com. Agent U. S.	Manzanillo, Mex.
VanZandt, R. L.	1890	C. E.	B. C. E.	Bank Bookkeeper	Fort Worth.
Vinther, F.	1897	M. E.	B. S.	Mach. and Draftsman.	Pine Bluff, Ark.
Von Rosenberg, F. C.	1884	M		Attorney at Law	Austin.
Walden, W. J.	1900	A	B. S.	Fellow in Chemistry	College Station.
Wangemann, A. E.	1890	A	B. S. A.	Wholesale Grocer	Brenham.
Watkins, R. C.	1895	C. E.	B. C. E.	Ass't Civ. Eng. S.P.Ry.	Houston.
Watkins, W. A.	1892	C. E.	B. C. E.	Lawyer	Bryan.
*Watson, D. H.	1882	M			Brenham.
Watson, W. D.	1893	A	B. S. A.	Wood and Coal	Houston.
Weidel, J.	1893	C. E.	B. C. E.		
Welhausen, C. B.	1891	M. E.	B. M. E.	Merchant	Shiner.
Wells, D. D.	1895	A	B. S. A	Physician	Hazen, Ark.
*Wesson, J. M.	1883	M			
West, T. B.	1887	M		Ag't S. P. Ry. Glidden.	Columbus.
Whealan, J. J.	1891	M. E.	B. M. E.	Machinist H.& T.C.Ry.	Houston.
Wheat, N.	1897	C. E.	B. S.	Stu. Mass. Tech	Boston.
Whisenant, W. H.	1899	H	B. S.	Pharmacist	San Antonio.
Whitaker, W.	1885	M		Lumber Manufacturer	Texarkana.
White, G. R.	1895	C. E.	B. C. E.	Stockman	Brady.
Whitener, H. L.	1891	A	B. S. A.	Physician	St. Louis, Mo.
Whitlock, E. H.	1886	M		Ass't Sup't and Expert M. E. Nat'l Carb. Co.	Cleveland, O.
Whittle, C. T.	1899	M. E.	B. S.	Mining	Pueblo, Col.
Winkler, A.	1900	A	B. S.	Farmer	The Grove.
Wight, A. T.	1895	C. E.	B. C. E.	General Merchandise.	Roxton.
Williams, L. D.	1897	C. E.	B. S.	Shipping Clerk I. & G. N. Ry.	Austin.
Wilson, W.	1893	C. E.	B. C. E.	Attorney at Law	Port Lavaca.
Wipprecht, W.	1884	A	B. S. A., '85	Pres. Mexia Comp. Co. and Manager Bryan Press Co.	Bryan.

67 21

Name.	Year	Subject or Course.	Degree.	Occupation.	Residence.
Wisdom, F. L.	1896	C. E.	B. S.	Timekeeper, Shops St. L. S. W. Ry.	Tyler.
Wood, W. M.	1888	C. E.	B. C. E.	Clerk U.S. Treas. Dep't	Tokoma Pk., D.C.
Wright, E.	1892	C. E.	B. C. E.	Lawyer	Paris.
Wright, H. L.	1886	M		Sup't Sewer System	Palestine.
Woodward, W. F.	1886	M		Stockman	Antelope.
Wurzbach, W. A.	1888	C. E.	B. C. E.	Lawyer	San Antonio.
Wyse, Ira O.	1901	A.	B. S.		Dallas.
Yarbrough, R. W.	1901	M. E.	B. S.	Mer. & Planter	Greening, La.

9 4

AGRICULTURAL AND MECHANICAL COLLEGE OF TEXAS.

This College owes its origin to

An Act donating public lands to the several States and Territories which may provide colleges for the benefit of agriculture and the mechanic arts.

Section 1. *Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,* That there be granted to the several States, for the purpose hereinafter mentioned, an amount of public land, to be apportioned to each State, a quantity equal to thirty thousand acres for each Senator and Representative in Congress to which the States are respectively entitled by the apportionment under the census of eighteen hundred and sixty; provided, that no mineral land shall be selected or purchased under the provisions of this act.

Sec. 2. And be it further enacted, That the land aforesaid, after being surveyed, shall be apportioned to the several States in sections or subdivisions of sections not less than one quarter of a section; and whenever there are public lands in a State subject to sale at private entry at one dollar and twenty-five cents per acre, the quantity to which said States shall be entitled shall be selected from such lands within the limits of such State; and the Secretary of the Interior is hereby directed to issue to each of the States in which there is not the quantity of public lands subject to sale at private entry at one dollar and twenty-five cents per acre, to which said State may be entitled under the provisions of this act, land scrip, to the amount in acres for the deficiency of its distributive share; said scrip to be sold by said States and the proceeds applied to the uses and purposes prescribed in this act, and for no other use or purpose whatsoever; provided, that in no case shall any State to which land scrip may thus be issued be allowed to locate the same within the limits of any other State, or of any Territory of the United States, but their assignees may thus locate said land scrip upon any of the unappropriated lands of the United States subject to sale at private entry at one dollar and twenty-five cents or less per acre; and, provided further, that no more than one million acres shall be located by such assignees in any one of the States; and, provided further that no such location shall be made before one year from the passage of this act.

Sec. 3. And be it further enacted, That all the expenses of management, superintendence and taxes from date of selection of said lands previous to their sales, and all expenses incurred in the management and disbursement of the moneys which may be received therefrom, shall be paid by the States to which they may belong, out of the treasuries of said States, so that the entire proceeds of the sale of said lands shall be applied without any diminution whatever to the purposes hereinafter mentioned.

Sec. 4. And be it further enacted, That all moneys derived from the sale of the lands aforesaid, by the States to which the lands are apportioned, and from the sale of land scrip hereinbefore provided for, shall be invested in stocks of the United States, or of the States, or some other safe stocks, yielding not less than 5 per centum upon the par value of said stocks, and that the moneys so invested shall constitute a perpetual fund, the capital of which shall remain forever undiminished (except so far as may be provided in section 5 of this act), and the

interest of which shall be inviolably appropriated by each State which may take and claim the benefit of this act, to the endowment, support and maintenance of at least one college where the leading object shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts, in such manner as the Legislatures of the States may respectively prescribe, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life.

Sec. 5. And be it further enacted, That the grant of land and land scrip hereby authorized shall be made on the following conditions, to which, as well as to the provisions hereinbefore contained, the previous assent of the several States shall be signified by legislative acts:

First. If any portion of the fund invested, as provided by the foregoing section, or any portion of the interest thereon, shall, by any action or contingency, be diminished or lost, it shall be replaced by the State to which it belongs, so that the capital of the fund may remain undiminished, and the annual increase shall be regularly applied without diminution to the purposes mentioned in the fourth section of this act, except that a sum not exceeding 10 per centum upon the amount received by any State under the provisions of this act may be expended for the purchase of lands for sites or experimental farms, wherever authorized by the respective Legislatures of said States.

Second. No portion of said fund, nor the interest thereon, shall be applied directly or indirectly, under any pretense whatever, to the purchase, erection, preservation or repair of any building or buildings.

Third. Any State which may take and claim the benefit of the provisions of this act shall provide, within five years, at least not less than one college, as described in the fourth section of this act, or the grant to such State shall cease, and said State shall be found to pay to the United States the amount received of any lands previously sold, and that the title to purchasers under the State shall be valid.

Fourth. An annual report shall be made regarding the progress of each college, recording any improvements and experiments made, with their cost and results, and such other matters, including State industrial and economical statistics, as may be supposed useful, one copy of which shall be transmitted by mail free by each to all the other colleges which may be endowed under the provisions of this act, and also one copy to the Secretary of the Interior.

Fifth. When lands shall be selected from those which have been raised to double the minimum price, in consequence of railroad grants, they shall be computed to the State at the maximum price, and the number of acres proportionately diminished.

Sixth. No State, while in a condition of rebellion or insurrection against the government of the United States, shall be entitled to the benefits of this act.

Seventh. No State shall be entitled to the benefits of this act unless it shall express its acceptance thereof by its Legislature within two years from the date of its approval by the President.

Sec. 6. And be it further enacted, That land scrip issued under the provisions of this act shall not be subject to location until after the first day of January, one thousand eight hundred and sixty-three.

Sec. 7. And be it further enacted, That land offices shall receive the same fees for locating land scrip issued under the provisions of this act as is now allowed for the location of military bounty land warrants under existing laws; provided, their minimum compensation shall not be thereby increased.

Sec. 8. And be it further enacted, That the governors of the several States to

which scrip shall be issued under this act shall be required to report annually to Congress all sales made of such scrip until the whole shall be disposed of, the amount received for the same, and what appropriation has been made of the proceeds.

Approved July 2, 1862.

And to the following amendment:

An Act to amend the fifth section of an act entitled "An Act donating public lands to the several States and Territories which may provide colleges for the benefit of agriculture and the mechanic arts," approved July 22 eighteen hundred and sixty-two, so as to extend the time within which the provisions of said act shall be accepted and such colleges established.

1. *Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,* That the time in which the several States may comply with the provisions of the Act of July 2, eighteen hundred and sixty-two, entitled "An Act donating public lands to the several States and Territories which may provide colleges for the benefit of agriculture and the mechanic arts," is hereby extended so that the acceptance of the benefits of the said act may be expressed within three years from the passage of this act, and the colleges required by the said act may be provided within five years from the date of filing of such acceptance with the Commissioner of the General Land Office; provided, that when any Territory shall become a State and be admitted into the Union, such new State shall be entitled to the benefits of said Act of July 2, eighteen hundred and sixty-two, by expressing acceptance therein required within three years from the date of its admission into the Union, and providing the college or colleges within five years of such acceptance, as prescribed in this act; provided further, that any State that has heretofore expressed its acceptance of the act herein referred to shall have the period of five years within which to provide at least one college, as described in the fourth section of this act, after the time for providing said college, according to the Act of July 2, eighteen hundred and sixty-two, shall have expired.

Approved July 23, 1865.

By joint resolution, approved November 1, 1871, the Legislature of Texas formally accepted the provisions of the congressional acts, and the State received, from the general government, scrip for 180,000 acres of public land. This was sold for $174,000, which sum was invested in Texas 7 per cent. gold frontier defense bonds. At the time of the opening of the College there was an addition to the fund from accrued interest of $35,000, which was invested in 6 per cent. State bonds. The income from these sources is $14,280.

The Legislature fulfilled its obligations by passing "An Act to provide for the establishment of an Agricultural and Mechanical College of Texas," approved April 17, 1871, and by making liberal successive appropriations (aggregating $187,000) for the buildings and equipments necessary for putting the institution in operation. And the county of Brazos secured its location within its limits by donating to the State the present College farm, a tract of 2416 acres, five miles south of the town of Bryan.

Finally, the Constitution of 1876, Article VII, provided: "Section 3. The Agricultural and Mechanical College of Texas, established by the act

of the Legislature, passed April 17, 1871, located in the county of Brazos, is hereby made and constituted a branch of the University of Texas, for instruction in agriculture, the mechanic arts, and the natural sciences connected therewith."

The College was formally opened for the reception of students October 4, 1876.

The Constitution of Texas provides that taxes may be raised for the maintenance and support of the College.

The following act of the Legislature of Texas is now the law governing the College:

An Act regulating the government of the Agricultural and Mechanical College of Texas, as approved March 9, 1875, and amended March 30, 1881.

I. The Board of Directors of said College shall consist of five members.

II. The Directors provided for in the preceding article shall be appointed by the Governor, to be selected from different portions of the State, and shall hold office for six years or during good behavior, and until their successors are qualified.

III. The Governor shall be authorized to call said Board together after their appointment, and said Board shall at their first meeting elect a President of the Board, who shall thereafter be authorized to call said Board together for the transaction of business whenever he deems it expedient, and a majority of said Board shall constitute a quorum for the transaction of business.

IV. Each of said Directors shall receive their actual expenses incurred in attending the meetings of the Board, to be paid out of the interest of the University fund, on accounts certified by them respectively to be correct, and approved by the Governor.

V. The Secretary of State shall forward a certificate to each Director within ten days after his appointment, notifying him of the fact of such appointment; and should any Director so appointed and notified fail for ten days to give notice to the Governor of his acceptance, his appointment shall be deemed void and his place filled as in case of vacancy.

VI. The Board of Directors shall appoint the President and professors of the College, and such other officers as they may think proper to put the College into successful operation, and shall make such by-laws, rules and regulations for its government as they deem meet and proper for that purpose, and shall regulate the course of study, rates of tuition, manner of performing labor, and the kind of labor to be performed by the students, together with the course of discipline necessary to enforce the faithful discharge of all the duties of all officers, professors and students, and shall have same printed and circulated for the benefit of the people of the State and officers and students of the College.

VII. The Board of Directors shall elect a Secretry of the Board, whose duty it shall be to keep in a well-bound book all the proceedings had by this Board, and he shall be allowed by said Board such compensation as they may allow; provided, that the same does not exceed five hundred dollars per annum.

VIII. The interest on the amount of one hundred and seventy-four thousand dollars in 7 per cent. gold interest-bearing frontier bonds of Texas, now in the State treasury to the credit of the College, being set apart for that purpose, shall be drawn by the Board of Directors on vouchers audited by the Board, or approved by the Governor and attested by the secretary, and on filing such vouchers the Comptroller shall draw his warrant on the State treasury for the

same, from time to time, as they may be needed, to pay the Directors, officers and professors of the College.

The following joint resolution was passed by the Sixteenth Legislature:

Joint resolution authorizing the State Librarian to turn over to the Agricultural and Mechanical College of Texas specimens of minerals and other geological specimens in the geological department of said library in certain cases, and copies of all public documents of the State, published for distribution, and all apparatus belonging to the old geological survey.

Section 1. *Be it resolved by the Legislature of the State of Texas:* That the State Librarian be and he is hereby authorized and required to turn over to the Agricultural and Mechanical College of Texas the duplicate specimens in the hands of the agents of the International Railroad Company of all minerals and other geological specimens in the geological department in said library, and copies of all public documents of the State published for distribution, and apparatus belonging to the old geological survey, for the use and benefit of said College.

Sec. 2. That said Librarian be required to take an inventory of all specimens thus turned over to said College by him, and file the same in his office.

Sec. 3. The near approach of the close of this session of the Legislature, and the pressing need of geological specimens at said College for the better instruction of its pupils, creates an imperative public necessity for the suspension of the constitutional rule requiring this resolution to be read on three several days; therefore, be it further resolved, that the constitutional rule be suspended and this resolution take effect and be in force from and after its passage.

Approved July 9, A. D. 1879.

An Act to apply a portion of the proceeds of the public lands to the more complete endowment and support of the colleges for the benefit of agriculture and the mechanic arts, established under the provisions of an act of Congress, approved July second, eighteen hundred and sixty-two.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That there shall be, and hereby is, annually appropriated out of any money in the treasury not otherwise appropriated, arising from the sale of public lands, to be paid as hereinafter provided, to each State and Territory, for the more complete endowment and maintenance of colleges for the benefit of agriculture and the mechanic arts, now established, or which may be hereafter established, in accordance with an Act of Congress, approved July second, eighteen hundred and sixty-two, the sum of fifteen thousand dollars for the year ending June thirtieth, eighteen hundred and ninety, and an annual increase of the amount of such appropriation thereafter for ten years, by an additional sum of one thousand dollars over the preceding year; and the annual amount to be paid thereafter to each State and Territory shall be twenty-five thousand dollars, to be applied only to instruction in agriculture, the mechanic arts, the English language, and the various branches of mathematics, physical, natural, and economic science, with special reference to their applications in the industries of life, and to the facilities for such instruction; provided, that no money shall be paid out under this act to any State or Territory for the support or maintenance of a college where a distinction of race or color is made in the admission of students, but the establishment and maintenance of such colleges separately for white and colored students shall be held to be a compliance with the provisions of this act, if the funds received in such State

or Territory be equitably divided, as hereinafter set forth; provided, that in any State in which there has been one college established in pursuance of the Act of July second, eighteen hundred and sixty-two, and also in which an educational institution of like character has been established, or may be hereafter established, and is now aided by such State from its own revenue, for the education of colored students in agriculture and the mechanic arts, however named or styled, or whether or not it has received money heretofore under the act to which this is an amendment, the Legislature of such State may propose and report to the Secretary of the Interior a just and equitable division of the fund to be received under this act, between one college for white students, and one institution for colored students, established as aforesaid, which shall be divided into two parts, and paid accordingly; and thereupon such institution for colored students shall be entitled to the benefits of this act, and subject to its provisions, as much as it would have been if it had been included under the Act of eighteen hundred and sixty-two; and the fulfillment of the foregoing provisions shall be taken as a compliance with the provisions in reference to separate colleges for white and colored students

Sec. 2. That the sums hereby appropriated to the States and Territories for the further endowment and support of colleges shall be annually paid on or before the thirty-first day of each year, by the Secretary of the Treasury, upon the warrant of the Secretary of the Interior, out of the treasury of the United States, to the State or Territorial treasurer, or to such officer as shall be designated by the laws of such State or Territory to receive the same, who shall, upon the order of the trustees of the college, or the institution for colored students, immediately pay over said sums to the treasurers of the respective colleges, or other institutions entitled to receive the same, and such treasurers shall be required to report to the Secretary of Agriculture and to the Secretary of the Interior, on or before the first day of September of each year, a detailed statement of the amount so received, and of its disbursement. The grants of money authorized by this act are made subject to the legislative assent of the several States and Territories to the purpose of said grants; provided, that payments of such installments of the appropriation herein made as shall become due to any State before the adjournment of the regular session of the Legislature meeting next after the passage of this act, shall be made upon the assent of the Governor thereof, duly certified to the Secretary of the Treasury.

Sec. 3. That if any portion of the moneys received by the designated officer of the State or Territory for the further and more complete endowment, support and maintenance of colleges, or of institutions for colored students, as provided in this act shall, by any action or contingency, be diminished or lost, or be misplaced, it shall be replaced by the State or Territory to which it belongs, and until so replaced no subsequent appropriation shall be apportioned or paid to such State or Territory; and no portion of said moneys shall be applied, directly or indirectly, under any pretense whatever, to the purchase, erection, preservation or repair of any building or buildings. An annual report by the president of each of said colleges shall be made to the Secretary of Agriculture, as well as to the Secretary of the Interior, regarding the condition and progress of each college, including statistical information in relation to its receipts and expenditures, its library, the number of its students and professors, and also as to any improvements and experiments made under the direction of any experiment stations attached to such colleges, with their costs and results, and such other industrial and economical statistics as may be regarded as useful, one copy of which shall be transmitted by mail, free, to all other colleges further endowed under this act.

Sec. 4. That on or before the first day of July in each year after the passage of this act, the Secretary of the Interior shall ascertain and certify to the Secretary of the Treasury as to each State and Territory, whether it is entitled to receive its share of the annual appropriation for colleges, or for institutions for colored students, under this act, and the amount which thereupon each is entitled, respectively, to receive. If the Secretary of the Interior shall withhold a certificate from any State or Territory of its appropriation, the facts and reasons therefor shall be reported to the President, and the amount involved shall be kept separate in the treasury until the close of the next Congress, in order that the State or Territory may, if it should so desire, appeal to Congress, from the determination of the Secretary of the Interior. If the next Congress shall not direct such sum to be paid, it shall be covered into the treasury; and the Secretary of the Interior is hereby charged with the proper administration of this law.

Sec. 5. That the Secretary of the Interior shall annually report to Congress the disbursements which have been made in all the States and Territories, and also whether the appropriation of any State or Territory has been withheld, and if so, the reasons therefor.

Sec. 6. Congress may at any time amend, suspend or repeal any or all of the provisions of this act.

Approved August 30, 1890.

OFFENSES RELATING TO PUBLIC BUILDINGS.

Chapter 5 (S. B. No. 41). An Act to amend Article 417, Chapter 4, Title 13, of the Penal Code of the State of Texas.

Whereas, For the purpose of preserving the new State capitol it becomes necessary to better define the offenses set out in the aforesaid act; therefore,

Section 1. *Be it enacted by the Legislature of the State of Texas,* That Article 417, Chapter 4, Title 13, of the Penal Code of the State of Texas, which took effect July 24, A. D. 1879, be amended so as to read as follows:

Sec. 2. Article 417. If any person shall wilfully injure or deface any public building or the furniture therein in this State, he shall be fined not less than five nor more than five hundred dollars. The word deface in this act shall be held to apply to writing, carving, or scratching on the walls or plastering or furniture of said building, or staining the same with paint or any article which will produce a coloration of the same.

Sec. 3. Whereas, The preservation of the State capitol building, together with other public buildings, creates an imperative public necessity, and an emergency exists requiring the constitutional rule requiring bills to be read on three several days in each house to be suspended, and it is so suspended, and that this act take effect and be in force from and after its passage, and it is so enacted.

[NOTE.—The foregoing act originated in the Senate, and passed the same by a vote of 27 yeas, no nays; and passed the House by a vote of 76 yeas, 5 nays.]

Approved May 14, 1888.

TEXAS AGRICULTURAL EXPERIMENT STATION.

STATION COUNCIL.

President Agricultural and Mechanical College, *ex-Officio.*

Hon. Jefferson Johnson. Prof. J. H. Connell.

Prof. H. H. Harrington. Prof. M. Francis.

J. A. Baker, Secretary.

STATION STAFF.

J. H. Connell ..... Director.
H. H. Harrington ..... Chemist.
M. Francis ..... Veterinarian.
R. H. Price ..... Horticulturist.
E. A. White ..... Assistant Horticulturist.
N. Fraenkel ..... Assistant Chemist.
B. C. Pittuck ..... Agriculturist.

ORIGIN.

The Agricultural Experiment Station has been established by the Congress of the United States, as shown by the following bill. This will be of great benefit to the Agricultural Course:

Full Text of the Experiment Station Bill as enacted by Congress and approved by the President.

An Act to establish agricultural experiment stations in connection with the colleges established in the several States under the provisions of an act approved July 2, 1862, and of the acts supplementary thereto.

Section 1. *Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,* That in order to aid in acquiring and diffusing among the people of the United States useful and practical information on subjects connected with agriculture, and to promote scientific investigation and experiment respecting the principles and applications of agricultural science, there shall be established, under the direction of the college or collges, or agricultural department of colleges, in each State or Territory, established, or which may be hereafter established, in accordance with the provisions of an act approved July 2, 1862, entitled "An Act donating public lands to the several States and Territories which may provide colleges for the benefit of agriculture and the mechanic arts," or any of the supplements to said act, a department to be known and designated as an "Agricultural Experiment Station"; provided, that in any State or Territory in which two such colleges have been or may be so established, the appropriation hereinafter made to such State or Territory shall be equally divided between such colleges, unless the Legislature of said State or Territory shall otherwise direct.

Sec. 2. That it shall be the object and duty of said experiment stations to conduct original researches to verify experiments on the physiology of plants and animals; the diseases to which they are severally subject, with the remedies for the same; the chemical composition of useful plants at their different

stages of growth; the comparative advantages of rotary cropping as pursued under a varying series of crops; the capacity of new plants or trees for acclimation; the analyses of soils and water; the chemical composition of manures, natural or artificial, with experiments designed to test their comparative effects on crops of different kinds; the adaptation and value of grasses and forage plants; the composition and digestibility of the different kinds of food for domestic animals; the scientific and economic questions involved in the production of butter and cheese; and such other researches or experiments bearing directly on the agricultural industry of the United States as may in each case be deemed advisable, having due regard to the varying conditions and needs of the respective States and Territories.

Sec. 3. That in order to secure, as far as practicable, uniformity of methods and results in the work of said stations, it shall be the duty of the United States Commissioner of Agriculture to furnish forms, as far as practicable, for the tabulations of results of investigation or experiments; to indicate, from time to time, such lines of inquiry as to him shall seem most important, and in general to furnish such advice and assistance as will best promote the purposes of this act. It shall be the duty of each of said stations, annually, on or before the first day of February, to make to the Governor of the State or Territory in which it is located a full and detailed report of its operations, including a statement of receipts and expenditures, a copy of which report shall be sent to each of the said stations, to the said Commissioner of Agriculture, and to the Secretary of the Treasury of the United States.

Sec. 4. The bulletins or reports of progress shall be published at said stations at least once in three months; one copy of each shall be sent to each newspaper in the States or Territories in which they are respectively located, and to such individuals actually engaged in farming as may request the same, and as far as the means of the station will permit. Such bulletins or reports and the annual reports of said stations shall be transmitted in the mails of the United States free of charge of postage, under such regulations as the Postmaster-General may from time to time prescribe.

Sec. 5. That for the purpose of paying the necessary expenses of conducting investigations and experiments and printing and distributing the results as hereinbefore prescribed, the sum of $15,000 is hereby appropriated to each State, to be specially provided for by Congress in the appropriations from year to year, and to each Territory entitled under the provisions of Section 2 of this act, out of any money in the treasury proceeding from the sale of public lands, to be paid in equal quarterly payments on the first day of January, April, July and October, of each year, to the treasurer or other officer duly appointed by the governing boards of said colleges to receive the same, the first payment to be made on the first day of October, 1887; provided, however, that out of the first annual appropriation so received by any station an amount not exceeding one-fifth may be expended in the erection, enlargement or repair of a building or buildings necessary for carrying on the work of such station; and thereafter an amount not exceeding five (5) per centum of such annual appropriations may be so expended.

Sec. 6. That whenever it shall appear to the Secretary of the Treasury, from the annual statement of receipts and expenditures of any of said stations, that a portion of the preceding annual appropriations remains unexpended, such amount shall be deducted from the next succeeding annual appropriation to such station, in order that the amount of money appropriated to any station shall not exceed the amount actually and necessarily required for its maintenance and support.

Sec. 7. That nothing in this act shall be construed to impair or modify the legal relation existing between any of the said colleges and the governments of the States and Territories in which they are respectively located.

Sec. 8. That in States having colleges entitled under this section to the benefits of this act, and having also Agricultural Experiment Stations established by law separate from said colleges, such States shall be authorized to apply such benefits to experiments at stations so established by such States; and in case any State shall have established, under the provisions of said Act of July 2, aforesaid, an agricultural department or experimental station in connection with any university, college or institution not distinctively an agricultural college or school, and such State shall have established, or shall hereafter establish, a separate agricultural school, which shall have connected therewith an experimental farm or station, the Legislature of such State may apply, in whole or in part, the appropriation by this act made to such separate agricultural college or school; and no Legislature shall, by contract, express or implied, disable itself from so doing.

Sec. 9. That the grants of moneys authorized by this act are made subject to the legislative assent of the several States and Territories to the purpose of said grants; provided, that payments of such installments of the appropriation herein made as shall become due to any State before the adjournment of the regular session of its Legislature meeting next after the passage of this act shall be made upon the assent of the Governor thereof, duly certified, to the Secretary of the Treasury.

Sec. 10. Nothing in this act shall be held or construed as binding the United States to continue any payments from the treasury to any or all of the States or institutions mentioned in this act, but Congress may, at any time, amend, suspend or repeal any or all of the provisions of this act.

In accordance with the act of Congress, the Board of Directors of the Agricultural and Mechanical College of Texas, at a meeting held January 25, 1888, established the Experiment Station as a department of the College. Provision was made for assigning to the Station department such part of the College farm, buildings and other equipment of the College as would be found necessary to prosecute the work, in addition to the outfit supplied from the funds of the Station.

The Director of the Station will have general supervision of all correspondence, and publication of bulletins and reports.

The professors of agriculture, chemistry, horticulture, and veterinary science, will have charge of Station work in their several departments.

LOCATION AND SUPPORT.

The Main Station, located in 1888 on the grounds of the Agricultural and Mechanical College, is supported entirely by appropriations from the Federal government.

A permanent State station, largely devoted to horticulture and fruit raising, and irrigation, was established in 1895, at Beeville, Bee county, for the purpose of testing new fruits and vegetables, as to their adaptability and plant food requirements in that portion of the State. Another station was established in 1902, at Troupe, Smith county. These sub-

stations are supported by State appropriations made biennially for this purpose.

OBJECTS OF THE STATION.

The objects of the Experiment Station and of the substations are clearly set forth in section two (2) of the act of Congress to which they owe their establishment, a copy of which law is found on pages 106 to 108 of this catalogue.

The Governing Board of the Station desire to make this work of as much value to the agricultural and horticultural interests of the State as may be possible. The work will be conducted at all times with special reference to giving information that may be of some practical use to the farmer. To enable them to carry out this policy, all associations having the advancement of agriculture in view—the Grange, Alliance, associations of stock breeders, or fruit growers, or other organizations—will be invited from time to time to appoint delegates to meet with the Board of Directors and officers of the Station, and consult and advise with them in regard to the work of the Station. Suggestions will be gladly received at all times from anyone who is interested in advancing the agricultural interests of the State.

INDEX.