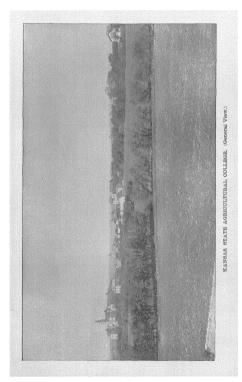
Kansas 🔷

State Agricultural College.

Catalogue, 1891-'92.

KANSAS STATE UNIVERSITY LIBRARY

SPECIAL COLLECTIONS





TWENTY-NINTH ANNUAL CATALOGUE

OF THE

OFFICERS, STUDENTS AND GRADUATES

OF THE

STATE AGRICULTURAL COLLEGE

OF KANSAS.

1891-'92.

MANHATTAN, KANSAS.

TOPEKA.

PRESS OF THE HAMILTON PRINTING COMPANY:
EDWIN H. Snow, State Printer.
1892.

TERMS AND VACATIONS.

FALL TERM, 1892.

Wednesday, Sept. 14.—Examination for admission, at 9 a.m. Thursday, Sept. 15.—College year begins.

FRIDAY, Oct. 28.—Examination.

FRIDAY, DEC. 9.—Annual Exhibition of the Alpha Beta Society.

THURSDAY AND FRIDAY, DEC. 22, 23.—Examination at close of Fall term.

DECEMBER 24 TO JANUARY 9.—Winter vacation.

WINTER TERM, 1893.

Monday, Jan. 9.—Examination for admission, at 9 a.m.

Tuesday, Jan. 10.—Winter term begins.

SATURDAY, FEB. 4.—Annual Exhibition of the Hamilton Society.

FRIDAY, FEB. 17.—Examination.

SATURDAY, MAR. 18.—Annual Exhibition of the Webster Society.

THURSDAY AND FRIDAY, MAR. 30, 31.—Examination, close of Winter term.

SPRING TERM, 1893.

MONDAY, APRIL 3.—Spring Term begins.

FRIDAY, APRIL 28.—Annual Exhibition of the Ionian Society.

FRIDAY, MAY 5.—Examination.

Monday and Tuesday, June 12, 13.—Examination at close of year.

June 11 to 14.—Exercises of Commencement week.

Wednesday, June 14, at 10 a.m.—Commencement.

June 15 to September 13.—Summer vacation.

FALL TERM, 1893.

Wednesday, Sept. 13.—Examination for admission, at 9 a.m.

THURSDAY, SEPT. 14.—College year begins.

BOARD OF REGENTS.

Hon. A. P. FORSYTH, (1894,)* President, Liberty, Montgomery Co.

Hon. R. W. FINLEY, (1893,) Vice President, Goodland, Sherman Co.

Hon. T. P. MOORE, (1893,) Loan Commissioner, Holton, Jackson Co.

Hon. JOSHUA WHEELER, (1894,) Treasurer,
Nortonville, Jefferson Co.

Hon. F. M. CHAFFEE, (1895,) Wyckoff, Lyon Co.

Hon. R. P. KELLEY, (1895,) Eureka, Greenwood Co.

PRESIDENT GEO. T. FAIRCHILD, (ex officio,) Secretary,
Manhattan, Riley Co.

I. D. Graham, Assistant Secretary,
Manhattan, Riley Co.

^{*}Term expires.

BOARD OF INSTRUCTION.

FACULTY.

GEORGE T. FAIRCHILD, A.M., PRESIDENT,

Professor of Logic and Political Economy.

GEORGE H. FAILYER, M. Sc., Professor of Chemistry and Mineralogy.

EDWIN A. POPENOE, A.M.,

Professor of Horticulture and Entomology, Superintendent of Orchards and Gardens.

DAVID ERNEST LANTZ, M. Sc., Professor of Mathematics, Librarian.

JOHN D. WALTERS, M. Sc., Professor of Industrial Art and Designing.

IRA D. GRAHAM, B. Sc., Secretary, Instructor in Book-keeping.

OSCAR EUGENE OLIN,
Professor of English Language and Literature.

Mrs. NELLIE SAWYER KEDZIE, M. Sc., Professor of Household Economy and Hygiene.

Mrs. ELIDA E. WINCHIP,
Superintendent of Sewing.

OZNI P. HOOD, B. Sc.,

Professor of Mechanics and Engineering, Superintendent of Workshops.

ALEXANDER B. BROWN, A. M., Professor of Music.

JOHN S. C. THOMPSON.

Superintendent of Printing.

FRANCIS H. WHITE, A.M.,

Professor of History and Constitutional Law.

CHARLES C. GEORGESON, M. Sc.,

Professor of Agriculture, Superintendent of Farm.

EDWIN B. BOLTON, CAPTAIN 23D U. S. INFANTRY.

Professor of Military Science and Tactics.

ERNEST REUBEN NICHOLS, A.M.,

Professor of Physics.

NELSON S. MAYO, D. V.S., M. Sc.,

Professor of Physiology and Veterinary Science.

JULIUS T. WILLARD, M. Sc.,

Assistant Professor of Chemistry.

JAMES W. RAIN,

Instructor in English.

ALBERT S. HITCHCOCK, M. Sc.,

Professor of Botany.

OTHER OFFICERS.

CLAUDE M. BREESE, M. Sc., Assistant in Chemistry.
JENNIE C. TUNNELL, B. Sc., Assistant Librarian.
JULIA R. PEARCE, B. Sc., Clerk in Executive Offices.
E. ADA LITTLE, B. Sc., Assistant in Sewing.
WILLIAM BAXTER, Foreman of Greenhouse.
WILLIAM L. HOUSE, Foreman of Carpenter Shop.
E. HARROLD, Foreman of Iron Shop.
CHARLES A. GUNDAKER, Engineer.
ANDREW C. MCCREARY, Janitor.

STUDENT ASSISTANTS.

MINNIE REED, B. Sc., Geography and English. JUDD N. BRIDGMAN, B. Sc., Mathematics. LOTTIE SHORT, B. Sc., Household Economy. GEORGE L. CLOTHIER, Horticulture. HENRY C. COBB, Mineralogy. ALBERT DICKENS, Horticulture. J N HARNER, Agriculture. LOYALL S. HARNER, Agriculture. CHARLES P. HARTLEY, Horticulture. ROBERT A. McILVANE, Agriculture. ELIAS W. REED, Mineralogy. ARTHUR D. RICE, Agriculture and English. JOHN D. RIDDELL, Surveying. FRED C. SEARS, Horticulture. WILLIAM E. SMITH, Horticulture. WALTER P. TUCKER, Printing. ROBERT L. WALLIS, Agriculture. GEORGE W. WILDIN, Wood-work and Surveying.

EXPERIMENT STATION.

COUNCIL.

PRESIDENT FAIRCHILD, Chairman, ex officio.

PROFESSOR FAILYER, Chemistry.

PROFESSOR POPENOE, Horticulture and Entomology.

PROFESSOR GEORGESON, Agriculture.

PROFESSOR MAYO, Veterinary Science.

PROFESSOR HITCHCOCK, Botany.

I. D. GRAHAM, Secretary.

ASSISTANTS AND FOREMEN.

- J. T. WILLARD, M. Sc., Chemistry.
- S. C. MASON, B. Sc., Horticulture, Foreman of Gardens.
- F. A. MARLATT, B. Sc., Entomology.
- WM. SHELTON, Foreman of Farm.
- F. C. BURTIS, B. Sc., Agriculture.
- M. A. CARLTON, B. Sc., Botany.

STUDENTS.

POST-GRADUATES.

RESIDENT.

William S. Arbuthnot, '91Veterinary Science. Cr 'a, Republic county.
Judd N. Bridgman, '91
Rachel Callie Conwell, '91
Helen Pearl Dow, '91
Delpha May Hoop, '91

NON-RESIDENT.

FOURTH YEAR.

Names.					Post Office and County.
Edwin Ransom	Burti	s.			Manhattan, Riley.
Grace Maria Cla	rk,				Junction City, Geary.
George L. Cloth	ier,		•		Vera, Wabaunsee.
Lilian Clyde Cri	ner,				Moundridge, McPherson.
Harry Darnell,					Ward, Wilson.
William H. Edel	blute.	,			Keats, Riley.
Elizabeth Edwar	rds,				Abergele, Wales.
John Frost,					Blue Rapids, Marshall.
Effie Gilstrap,					Geuda Springs, Sumner.

*				•
Names.				Post Office and County.
Ava Hamill, .		•		Olathe, Johnson.
J N Harner, .				Green, Clay.
Loyall S. Harner,				Leonardville, Riley.
Charles Pinckney Hart	ley,			Manhattan, Riley.
John William Abrahan	ı Hartl	eу,		Manhattan, Riley.
Robert Clayton Hunter	r, .			Manhattan, Riley.
Fred Swift Little,				Manhattan, Riley.
James Laird McDowell	l, .			Manhattan, Riley.
Robert A. McIlvaine,				Maryville, Tennessee.
Kate Oldham, .				Keats, Riley.
Daniel Henry Otis,				Topeka, Shawnee.
Ivan Bryan Parker,				Hill City, Graham.
Warner S. Pope,				Cawker City, Mitchell.
Berton Homer Pugh,			•	Topeka, Shawnee.
Elias W. Reed, .				St. Clere, Pottawatomie.
Robert Stirling Reed,				Cedar Point, Chase.
Arthur Daniel Rice,				Washington, Washington.
Fred C. Sears, .				Tescott, Ottawa.
Birdie E. Secrest,				Randolph, Riley.
May Secrest, .				Randolph, Riley.
Ruth Tipton Stokes,				Garnett, Anderson.
Walter Percival Tucker	r, .			Douglass, Butler.
Mary Alice Vail, .				Manhattan, Riley.
Robert Lynn Wallis,				Williamsburg, Franklin.
Ora Rebecca Wells,				Irving, Marshall.
Daniel F. Wickman,				Topeka, Shawnee.
George Washington W	ildin,			Melvern, Osage.
Charles Ernest Yeoman				La Crosse, Rush.
				•

THIRD YEAR.

Edmund Clarence Abbott, .		Garden City, Finney.
Edward Jones Abell,		Leonardville, Riley.
Milan O. Bacheller,		Nekoma, Rush.
Joe William Brooks,		Manhattan, Riley.
Henry Cowain Cobb,		Muskogee, Indian Territory.
Martha Amelia Cottrell, .	• •	Wabaunsee, Wabaunsee.
Edwin McMaster Stanton Curti	s, .	Council Grove, Morris.
Corinne Louise Daly, .		Smith Center, Smith.
Laura Greeley Day,		Manhattan, Riley.
Ione Dewey,		Manhattan, Riley.
Albert Dickens,		Alden, Rice.
Charles Lawrence Gall, .		Burlingame, Osage.
Mary Maud Gardiner, .		Bradford, Waubaunsee.
Ivy Frances Harner,		Leonardville, Riley.

Names.				Deat Office and County
D 0.77				Post Office and County. Green, Clay.
TATE OF THE OWNER O	•	•	•	Haviland, Kiowa.
Mark v. Hester, Margaretha Elise Horn,	•	•	•	**
	•	•	•	Westerbergen, Germany.
Mac F. Hulett,	•	•	•	Edgerton, Johnson.
Onie Hulett,	•	•	•	Edgerton, Johnson.
Fred Hulse,	•	•	•	Keats, Riley.
Charles R. Hutchings,	•	•	•	Pomona, Franklin.
Charles Edward Jennings,	•	•	•	Weskan, Wallace.
Samuel B. Johnson,	•	•	•	Melvern, Osage.
Charles Augustus Kimball,	•	•	•	Manhattan, Riley.
Maude Knickerbocker,	•	•	•	Long Pine, Nebraska.
Robert McIntosh Laundy,		•	•	Wreford, Geary.
Mary Eliza Lyman, .	•	•	•	Manhattan, Riley.
Thomas Eddy Lyon, .		•		Riley, Riley.
William Otis Lyon, .	•			Manhattan, Riley.
McLeod Wilson McCrea,		•		Dunavant, Jefferson.
Rose Edith McDowell,		•		Manhattan, Riley.
William Henry Moore,				Manhattan, Riley.
William Douglas Morrison,			•	Arispie, Pottawatomie.
Eusebia DeLong Mudge,		•		Eskridge, Wabaunsee.
Nora Newell,				Manhattan, Riley.
August Fred Niemoller,				Stitt, Dickinson.
Susie Amanda Noyes,				Wabaunsee, Wabaunsee.
Leon Olmstead,				Big Timber, Montana.
Henry Leamer Pellet,				Prairie Centre, Johnson.
Carl Frederic Pfuetze,				Manhattan, Riley.
Frederic Ellsworth Rader,				Manhattan, Riley.
John DeWitt Riddell,				Conway, McPherson.
John Albert Rokes, .				Onaga, Pottawatomie.
Agnes Romick,				Manhattan, Riley.
Minnie Louisa Romick,				Manhattan, Riley.
Charles Baxter Selby,				Manhattan, Riley.
Fred Raymond Smith,			Ĭ.	Manhattan, Riley.
George Wildman Smith,		:	•	Manhattan, Riley.
William Elmer Smith,	:	:	•	Manhattan, Riley.
TTT 1 0 01	•	•	•	Dallas, Missouri.
Jessie Marie Stearns,	•	•	•	Mound City, Linn.
~ . ~	•	•	•	Manhattan, Riley.
John Stingley, John Edwin Taylor, .	•	•	•	Berryton, Shawnee.
John Eugene Thackrey,	•	•	•	Manhattan, Riley.
• • • • • • • • • • • • • • • • • • • •	•	•	•	•
Joseph B. Thoburn, .	•	•	•	Peabody, Marion.
Charles Henry Thompson,		•	•	Bakersfield, California.
George K. Thompson,	•	•	•	Irving, Marshall.
Phœbe Cary Turner, .	•	•	•	Rock Creek, Jefferson.
Stephen Irenæus Wilken,	•	•	•	Bow Creek, Rooks.
William James Yeoman,	•	•	•	La Crosse, Rush.
John A. Zimmerman,	•	•	•	Olathe, Johnson.

SECOND YEAR.

Names.			Post Office and County.
Alice Abbott,			Garden City, Finney.
Raymond Barrington Abbott,			Garden City, Finney.
Carl D. Adams,			Osawkie, Jefferson.
Edith Etta Allman,			Manhattan, Riley.
Frank Weber Ames,			Riley, Riley.
William Thomas Anderson,			Parsons, Labette.
Orville Claude Axtell,			Plevna, Reno.
Alfonso K. Barnes,			Dover, Shawnee.
Eben M. Blachly,	•		Leonardville, Riley.
George Gordon Boardman,			Centralia, Nemaha.
Arthur Wiltshire Brewer, .			Manhattan, Riley.
Mary Brooks,			Manhattan, Riley.
Hyman E. Brown,			Topeka, Shawnee.
William Brown,			Leavenworth, Leavenworth.
William Brown, Clara F. Castle,			Manhattan, Riley.
George Luther Christensen,			Mariadahl, Pottawatomie.
John Cornelius Christensen.			Clarkson, Riley.
Earl Allen Clark,		. •	Greenleaf, Washington.
Robert Abram Clark, .		•	Burlington, Coffey.
Lorena Estella Clemons, .			Alida, Geary.
Almond Coen,			Half Way, Cloud.
Florence Ruth Corbett, .			Manhattan, Riley.
Sarah Esther Cottrell, .			Wabaunsee, Wabaunsee.
Ernest Brown Coulson, .			Anthony, Harper.
Alverta May Cress,			Manhattan, Riley.
Fannie Jane Cress,			Steubenville, Ohio.
Elsie Emeline Crump, .			Manhattan, Riley.
David Thomas Davies, .			Manhattan, Riley.
Daisy Day,			Onaga, Pottawatomie.
George Henry Dial,			Cleburne, Riley.
Lillie C. Dial,		•	Cleburne, Riley.
Lillie C. Dial,			Edgerton, Johnson.
Harriet Elizabeth Dodson,			Wakefield, Clay.
George Doll,			Larned, Pawnee.
George Doll, Ernest A. Donaven,			Agra, Phillips.
John Dougherty,			Manhattan, Riley.
Frank J. Downs, Victor Emrick,			Lyndon, Osage.
Victor Emrick,			Lone Tree, Missouri.
Jephthah W. Evans,			Manhattan, Riley.
Bertha Frances Fairchild, .	٠.		Oberlin, Ohio.
Sprague Farman,			Manhattan, Riley.
Edward David Fay,			Downs, Osborne.
Josephine Finley,			Manhattan, Riley.
Josephine Finley, Mary Finley,			Manhattan, Riley.
U U /			

Names.				Post Office and County.
				La Crosse, Rush.
		•	:	Howard, Elk.
				Meriden, Jefferson.
				Manhattan, Riley.
·				Louisville, Pottawatomie.
Florence Eleanor Fryhofer,		:		Randolph, Riley.
George William Fryhofer,				Randolph, Riley.
Waldo Parkhurst Gahan,				Manhattan, Riley.
Isaac Clayton Gall, .			•	Burlington, Osage.
Ernest A. Gardiner, .		:	:	Bradford, Wabaunsee.
John Garrett,				Centropolis, Franklin.
		:	:	Willard, Shawnee.
Harvey G. Gilkerson, .		:	:	Willard, Shawnee.
Edward William Marble Gir			:	Waldron, Missouri.
Garrett Walter Ginter,	1001,			Valley Falls, Jefferson.
Charles Shepard Green,	•		:	Manhattan, Riley.
^	:	:	:	Leonardville, Riley.
		:	:	Olesburg, Pottawatomie.
Hortensia Harman	•		•	Valley Falls, Jefferson.
Hortensia Harman, . John Bright Harman,	•		:	Valley Falls, Jefferson.
Marie Haulenbeck	•		:	Manhattan, Riley.
Marie Haulenbeck, . Philip Hay,	•		•	Junction City, Geary.
Blanche Etta Hayes, .	•	:	:	Manhattan, Riley.
Lorena Marguerite Helder,			•	Manhattan, Riley.
Everett Lewis Higinbotham				Myers Valley, Pottawatomie.
1.74	•			Gaylord, Smith.
Mrs. Clara Effie Holroyd,			•	Manhattan, Riley.
Clarence V. Holsinger,				Rosedale, Wyandotte.
				Manhattan, Riley.
Albert Stephen Houghton,	•			Manhattan, Riley.
Jessie Stingley Hunter,			:	Manhattan, Riley.
			:	Princeton, Franklin.
Frank William Irvin,				Manhattan, Riley.
Andrew Jackson		•	:	Lincoln, Lincoln.
Abram Johnson, John James Johnson, jr.,	•		:	Melvern, Osage.
John James Johnson ir	•	•	•	Success, Russell.
Fred Rainh Jolly	٠.	•	•	Atwood, Rawlins.
Fred Ralph Jolly,			•	Ada, Lincoln.
William Irvin Joss,			:	Fairview, Brown.
Peter Guin Keele	•		•	Manhattan, Riley.
Peter Guin Keele, Stella Victoria Kimball,	•	•	•	Manhattan, Riley.
James Spreat Temm	•	•	•	Lansing, Leavenworth.
James Sproat Lamm, Alfred Lawson,	•	•	•	Edmond, Norton.
Eugene Mershell		•	•	Manhattan, Riley.
Eugene Marshall,	•	•	•	Topeka, Shawnee.
Charles Dwin McCarles	•	•	•	Wilburn, Ford.
Charles Dwin McCauley, .	•		•	WHOUTH, FORG.

Names. Laura Sarah McKeen,				Post Office and County. Russell, Russell.
Ward Cadwell Mead, .	•	•	•	•
	•	•	•	Maple City, Geary. Manhattan, Riley.
Elizabeth Ida Meyers,	•	•	•	, ,
	•	•	•	Holton, Jackson.
Elizabeth Morrison, .	•	•	•	Arispie, Pottawatomie.
George Thorp Morrison,		•	•	Arispie, Pottawatomie,
	•	•	•	Mound City, Linn.
Josie M. Myers,	•	•	•	Ogden, Riley.
Carlos Thomas Newby,		•	•	Tonganoxie, Leavenworth.
Oscar Albert Otten, . Pearl Hiram Pagett, .	•		•	Brenner, Doniphan.
Pearl Hiram Pagett, .	• .	•	•	Beloit, Mitchell.
Ida Rebecca Pape, .	•	•	•	Topeka, Shawnee.
Charles Randolph Pearson,				Collyer, Trego.
James Henry Persinger,				Canton, McPherson.
James Henry Persinger, Edward Leon Platt, . Horace Greeley Pope,	•			Manhattan, Riley.
Horace Greeley Pope,	•			Cawker City, Mitchell.
				Manhattan, Riley.
William Walter Robison,				Yates Center, Woodson.
Victor Irvin Sandt, .				Alden, Rice.
				Emporia, Lyon.
•				Randolph, Riley.
Jennie May Selby, .				Manhattan, Riley.
				Manhattan, Riley.
				Elmdale, Chase.
				Cora, Smith.
Charles Chrisfield Smith,			•	Manhattan, Riley.
Thomas H. Smyth,			•	Beloit, Mitchell.
	:	•	•	Poast Town, Ohio.
· · ·		•	•	Dallas, Missouri.
Ida May Staver, Maggie Jane Steuart,	•	•	•	Winchester, Jefferson.
mange to out to broad to,	•	•	•	,
,	•	•	•	Winchester, Jefferson.
Fairy Josephine Strong,			•	Manhattan, Riley.
Cora Adella Stump,	•	•	•	Corning, Nemaha.
	•	•	•	Corning, Nemaha.
Franklin Albert Thackrey,		•	•	Manhattan, Riley.
Delbert Timbers, .	•	•	٠	Beloit, Mitchell.
John Malcolm Todd, .	•	•	•	Marmaton, Bourbon.
Samuel R. Vincent, .		•		Argonia, Sumner.
		•	•	Manhattan, Riley.
Edgar Isaac Washington,	•		•	Manhattan, Riley.
				Manhattan, Riley.
Hannah Amelia Wetzig,				Winkler's Mills, Riley.
				Manhattan, Riley.
George Carpenter Wheeler,				Burlington, Coffey.
Jessamine Whitford, .				Manhattan, Riley.
Jessie C. Whitney, .				Manhattan, Riley.
***				•

Names.

Mary Elizabeth Willard, . . . Wamego, Pottawatomie.

John Melancthon Williams, . . Edgerton, Johnson.

Hattie Ethel Yenawine, . . . Manhattan, Riley.

FIRST YEAR.

Charles Eckley Abell, . Leonardville, Riley. Emma Elizabeth Adams, Manhattan, Riley. David Ewing Ainsworth, Ocheltree, Johnson. Flora Evelina Allingham, . Manhattan, Rilev. Deane Collier Arnold, Louisville, Pottawatomie. William Thomas Attwood, . Fact, Clay. Garden Plain, Sedgwick. William Henry Austin, Walker Humphrey Baker, . Manhattan, Riley. Miriam Ballard, Ballard's Falls, Washington. Manhattan, Riley. Andrew Monrow Barnard, . Asa William Barnard, Manhattan, Riley. Clyde William Barnes, Burlingame, Osage. Robert John Barnett, Denison, Jackson. Pearl Bartlett, . . Poe, Ottawa. George Llewellyn Baughman, Topeka, Shawnee. Henry Baughn, . . . Netawaka, Jackson. Ada Mae Baxter, Myers Valley, Pottawatomie. Agnes Baxter, . Myers Valley, Pottawatomie. Franklin Fairbanks Baxter, Manhattan, Riley. James Cameron Bayless, . Melvern, Osage. Carrie Amelia Beatty, Leavenworth, Leavenworth. Herbert John Bender, Topeka, Shawnee. Rubert Bender, . . Topeka, Shawnee. Arthur Denman Benson, Colfax, Illinois. Carl Julius Berglund, Lindsborg, McPherson. Ernest W. Bidwell, . Agra, Phillips. William A. Biegert, Junction City, Geary. Marie Blachly, . Leonardville, Riley. William Keller Blachly, Leonardville, Riley. Myers Valley, Pottawatomie. Augusta Blockolsky, . Jessie Lucy Boardman, Centralia, Nemaha. Alie Robert Bradshaw, Hoyt, Jackson. Criss Corbet Braum, . Denison, Jackson. John Henderson Braum. Denison, Jackson. Fred Broadbent, Erie, Neosho. Rosa Selena Broadbent, Corning, Nemaha. Homer Ulysses Brookhart, Nelson, Nebraska. Albert Leo Brooks, . Salina, Saline. Bert Mills Brown, Fall River, Greenwood.

Names.				Post Office and County.
Charles Curtis Brown,				Stuyvesant, Osborne.
William Edward Bryan,				Centralia, Nemaha.
				Oskaloosa, Jefferson.
Elvina Buckman, .				Topeka, Shawnee.
Walter Emmet Butler,				Pueblo, Colorado.
				Scandia, Republic.
James Marion Calhoun,				New Murdock, Kingman.
Plummer Carnahan, .				Centralia, Nemaha.
Samuel Mordecai Carnahan	ι,			Stockdale, Pottawatomie.
Samuel Stearson Cassidy,				Beattie, Marshall.
William Annesley Cavenaug	gh,			Ft. Supply, Indian Territory.
Marshall Chandler, .			√	Argentine, Wyandotte.
				Burlingame, Osage.
Tom Charles,				Republic, Republic.
Tudor John Charles, .				Republic, Republic.
Tudor John Charles, . Ernest Gardner Clark, William Arthur Coa		:		Garden Plain, Sedgwick.
William Arthur Coe, .				Coloma, Woodson.
Chase Cole,				Winchester, Jefferson.
Harry Leonard Coleman,		•		Menoken, Shawnee.
Fred Collett,				Elk, Chase.
Thomas Henry Coman,				Scammonville, Cherokee.
Laura Viola Condray,			•	Manhattan, Riley.
Burton Wesley Conrad,	•			Capioma, Nemaha.
Creed Conwell,				Manhattan, Riley.
				Sibley, Douglas.
Julia Craig, Gilbert Crawford, .			•	Fairport, Russell.
Gilbert Crawford, .		•		Paola, Miami.
Sid Henry Creager, .	•	•		Jamestown, Republic.
George Walter Crouch,		•	•	Maple Hill, Wabaunsee.
Seth Curtis,		•		Oregon, Missouri.
Alexis Craine Cutler, .	•		•	Wabaunsee, Wabaunsee.
Fred Hurlbut Danvers,				North Topeka, Shawnee.
	•		•	Vincent, Osborne.
		•		Yates Center, Woodson.
Flora Day,	•			Onaga, Pottawatomie.
George Adam Dean, .	•	•		Topeka, Shawnee.
Charles Sumner Dearborn,		•		Silver Lake, Shawnee.
Miles Cullen Doran, .	•		•	Edgerton, Johnson.
Fred George Dow, .		•	•	Manhattan, Riley.
Carrie Isabell Drake, .	•			Manhattan, Riley.
Olive May Drake, .				Manhattan, Riley.
		•		Burlington, Coffey.
Marshall Columbus Edwar		•	•	Vinton, Cowley.
Edwin Amos Eggleston,			•	Kingman, Kingman.
Charles Silas Evans, .	•	•	•	Denison, Jackson.
Clyde Farman,	•			Manhattan, Riley.

**				
Names.				Post Office and County.
Robert Kilby Farrar,	•	٠	•	Axtell, Marshall.
Herbert Newton Farris,	•	•	•	Longton, Elk.
esse Martain Fengel,	•	•	•	Woodbine, Dickinson.
rank Johnson Fields,	•		•	Harveyville, Wabaunsee.
farquis C. Findley, .	•	•	•	Morland, Graham.
	•	•	•	Morland, Graham.
Valter Scott Forsythe,	•	•	•	Carbondale, Osage.
Rosa Ida Francis, .	•	•	•	St. Clere, Pottawatomie.
Irnest Harrison Freeman,		•	•	North Topeka, Shawnee.
oanna Freeman, .	•	•	•	Manhattan, Riley.
red Frevert,	•	•	•	Piqua, Woodson.
Ioward Shearer Fritz,	•	•	•	Newton, Harvey.
arthur Lorenzo Frowe,	•		•	Louisville, Pottawatomie.
arthur Lorenzo Frowe, Elmer George Gibson, Morris Hooper Ginter.		•	•	Willard, Shawnee.
,	•	•	•	Valley Falls, Jefferson.
	•	•	•	Lansing, Leavenworth.
Villiam L. Graves, .		•	•	Inman, McPherson.
la Emery Grecian, .		•	•	Alton, Osborne.
Bert Waldron Green, .				Manhattan, Riley.
harles D. Griffee, .	•			Alden, Rice.
Sertha Annie Gundaker,				Manhattan, Riley.
red Harvey Haid, .	•			Myers Valley, Pottawatomie.
oseph Haldeman, .		. •		Jasper, McPherson.
Senjamin De Witt Haller,				Burlingame, Osage.
llen Aurora Halstead,	-			Leonardville, Riley.
loyd Hamill,				Olathe, Johnson.
Iaria Glen Hanlin, .		٠.		Osborne, Missouri.
amuel McCreedy Hanlon,				Orie, Sumner.
Villiam Lesley Hanlon,				Orie, Sumner.
ertrude Hardy, .	•			Manhattan, Riley.
fertrude Hardy,				Manhattan, Riley.
				Manhattan, Riley.
Iyrtle Mary Harner, .				Leonardville, Riley.
amuel Stook Harner,				Leonardville, Riley.
rlow Harper,				Melvern, Osage.
				Manhattan, Riley.
				Manhattan, Riley.
Cohraim J. Hartzler.				Goodland, Sherman.
-				Manhattan, Riley.
				Dwight, Morris.
•				Dwight, Morris.
				Manhattan, Riley.
		•		Manhattan, Riley.
	•	•	•	La Junta, Colorado.
			•	Dawson, Nebraska.
•			•	Manhattan, Riley.
ioranam muuson mepier,	•	•	•	mammanan, miley.
	Elizabeth Lynn Hartley, Ephraim J. Hartzler, Fertrude Evangeline Haule Llonzo Charles Havens, Fertrude Julia Havens, Lawrence Wilber Hayes, Villiam Alfred Hayward, Vinfred Francis Hecox, Tonas August Heim,	Elizabeth Lynn Hartley, . Ephraim J. Hartzler, . Fertrude Evangeline Haulenberlonzo Charles Havens, . Fertrude Julia Havens, . Lawrence Wilber Hayes, . William Alfred Hayward, . Winfred Francis Hecox, .	Elizabeth Lynn Hartley, Ephraim J. Hartzler, Fertrude Evangeline Haulenbeck, Llonzo Charles Havens, Fertrude Julia Havens, Lawrence Wilber Hayes, Villiam Alfred Hayward, Vinfred Francis Hecox, Jonas August Heim,	Elizabeth Lynn Hartley,

	Names.					Post Office and County.
	Clarence Hepler, .				•	Manhattan, Riley.
	Forrest Hill,				•	Emporia, Lyon.
	Samuel Vincent Henry E	-			•	Eskridge, Wabaunsee.
	Eugene Fayette Holden,			•	•	Overbrook, Osage.
	Curtis Edson Holderman	•	•	•	•	Chetopa, Labette.
	Louis Pettigrew Holland			•	•	Garden Plain, Sedgwick.
	George Ralph Hopkins,			•	•	Garnett, Anderson.
	Alice Horton,			•	•	Manhattan, Riley.
	Sara Hayden Hosmer,		•	•	•	Eskridge, Wabaunsee.
	Alda Howell,			•	•	Manhattan, Riley.
	Olga D. Huber,			•	•	Meriden, Jefferson.
	Charles Gibson Huey,		•	•	•	Downs, Osborne.
	Guy Dudley Hulett, .		•	•	•	Edgerton, Johnson.
	Cyrus Eugene Humphrey	у,	•	•	•	Leeds, Chautauqua.
	Dell E. Humphrey, .			•	•	Manhattan, Riley.
	John L. Hunter,		•	•	•	Manhattan, Riley.
	Clarence Wilmot Jenkins				•	Albuquerque, New Mexico.
	William John Jennings,				•	Manhattan, Riley.
	Willie Eber Jobes, .			•		Tecumseh, Nebraska.
	Carrie Grace Johnson,					Myers Valley, Pottawatomie.
	Christian Andrick Johns	on,				Success, Russell.
	Christian Andrick Johns Jesse R. Johnson, John Williamson Johnso	٠.				Myers Valley, Pottawatomie.
						Myers Valley, Pottawatomie
	Susan Effie Johnson, .					Success, Russell.
	Marian Elizabeth Jones,					Manhattan, Riley.
	Tom Lormar Jones, .					Manhattan, Riley.
	Olive Jane Kearns, .					Manhattan, Riley.
	Lewis Keeler,					Ravanna, Garfield.
,						Ogden, Riley.
	Rosella Kelly, Maud Estella Kennett,					Silver Lake, Shawnee.
	Charles Nash Kenyon,					Cawker City, Mitchell.
	Richard Beaver Kerr,					Salina, Saline.
	John Ben Kimball, .					Manhattan, Riley.
	John Milton Kimball.		_			Manhattan, Riley.
	Fred Linton Kinsey, .					Crow, Phillips.
	Mark Kirkpatrick.					Fredonia, Wilson.
	Mark Kirkpatrick, . Charles Rolland Kistler,					Waterville, Marshall.
	Ambrose W. Krotzer,		•			Manhattan, Riley.
	John Ester Kumle, .			•	•	Sharp's Creek, McPherson.
	William Frederick Lache				:	Ames, Cloud.
				,	•	Olivet, Osage.
	Charles Alfred Lafferty, Daniel Seward LaShelle,		•	•	•	Chepstow, Washington.
				•	•	
	Kate Law, Perry Law,				•	Brownell, Ness.
	Torry Daw,				•	Brownell, Ness.
	Frank Thomas Lawry,				•	Overbrook, Osage.
	Alta Westfall Lee, .		•	• .	•.	Russell, Russell.

Calvin Harvey Leonard, Cortes Dawson Lesley, Culver, Ottawa. John William Lewis, Moline, Elk. Leo Clayton Lewis, Harveyville, Wabaunsee. Myron Arthur Limbooker, Manhattan, Riley. Scott Long, Manhattan, Riley. Scott Long, Manhattan, Riley. Schma Daisy Deborah Lund, Randolph, Riley. Charles W. Lyman, Manhattan, Riley. Mary Louise Maas, Alma, Wabaunsee. Inez Louise Mack, Red Creek, New York. George Dodds Martin. Eskridge, Wabaunsee. Janna Mary Martin, Eskridge, Wabaunsee. Janna Mary Martin, Eskridge, Wabaunsee. Cora Luella Matthews, Irving, Marshall. Irwin L. McCarty; Conway, McPherson. William Bogart McCord, Manhattan, Riley. Martha M. McCullough, Delavan, Morris. Samuel Alexander MoDowell, Manhattan, Riley. Charles Irving McGregor, Olivet, Osage. George Vernon McKeever, Valley Falls, Jefferson. William Dio McPhee, Anthony, Harper. Ward Cadwell Mead, Maple City, Cowley. Winfred Medaris, Manhattan, Riley. James Edward Mercer, Topeka, Shawnee. Harvey Robert Miller, Wabaunsee, Wabaunsee. John Mitchell, Morth Topeka, Shawnee. Mary Ettie Mitchell, Burlingame, Osage. Oliver L. Mitchell, Burlingame, Osage. William Henry Mitchell, Burlingame, Osage. Milliam Frederick Moerer, Piqua, Woodson. Minnie Minerva Moffett, Manhattan, Riley. Janiel Estol Moore, Manhattan, Riley. Almira Ettie Moody, Rexford, Thomas. Enoch K. Moody, Stuart, Smith. Daniel Estol Moore, Manhattan, Riley. Charles Milton Morgan, Keats, Riley. Frank Herbert Morgan, Keats, Riley. Frank Herbert Morgan, Keats, Riley. Debbie Lenora Mosher, Haddam, Washington. George Merrick Munger. Clarence Lea Myers, Holton, Jackson. Alta Vista, Wabaunsee. Laura Maude Neblock, Harveyville, Wabaunsee.	Names.			Post Office and County.
Cortes Dawson Lesley, John William Lewis, Leo Clayton Lewis, Moline, Elk. Leo Clayton Lewis, Myron Arthur Limbocker, Scott Long, Manhattan, Riley. Selma Daisy Deborah Lund, Charles W. Lyman, Mary Louise Maas, Inez Louise Maas, Inez Louise Mack, George Dodds Martin. Janna Mary Martin, Cora Luella Matthews, Cra Luella Matthews, Crora Luella Matthews, Irving, Marshall. Cecil Eugene Matthews, William Bogart McCord, Martha M. McCullough, Nannie Catharine McCullough, Nannie Catharine McCullough, Delavan, Morris. Samuel Alexander MoDowell. Charles Irving McGregor, George Vernon McKeever, William Dio McPhee, Ward Cadwell Mead, Winfred Medaris, James Edward Mercer, Harvey Robert Miller, John Mitchell, Mary Ettie Mitchell, William Henry Mitchell, Minnie Minerva Moffett, Minnie Minerva Moffett, Minnie Stuart, Riley. Manhattan, Riley. Manhattan, Riley. Manhattan, Riley. Manhattan, Riley. Olivet, Osage. Valley Falls, Jefferson. William Dio McPhee, Manhattan, Riley.				
John William Lewis,	• ,			•
Leo Claytoh Lewis, Marhattan, Riley. Scott Long,				·
Myron Arthur Limbocker, Scott Long, Selma Daisy Deborah Lund, Charles W. Lyman, Manhattan, Riley. Cora Luella Matthews, Irving, Marshall. Cecil Eugene Matthews, Irving, Marshall. Irwin L. McCarty; Conway, McPherson. William Bogart McCord, Manhattan, Riley. Manhattan, Riley. Martha M. McCullough, Nannie Catharine McCullough, Delavan, Morris. Samuel Alexander McDowell. Manhattan, Riley. Olivet, Osage. George Vernon McKeever, William Dio McPhee, Ward Cadwell Mead, Maple City, Cowley. Winfred Medaris, James Edward Mercer, Harvey Robert Miller, John Mitchell, Manhattan, Riley. Maple City, Cowley. Winfred Medaris, James Edward Mercer, Harvey Robert Miller, Maple City, Cowley. Mary Ettie Mitchell, Burlingame, Osage. Oliver L. Mitchell, Burlingame, Osage. Oliver L. Mitchell, Burlingame, Osage. William Henry Mitchell, Burlingame, Osage. William Henry Mitchell, Melvern, Osage. Julius Frederick Moerer, Piqua, Woodson. Minnie Minerva Moffett, Manhattan, Riley. Alida Ellen Moody, Rexford, Thomas. Almira Ettie Moody, Rexford, Thomas. Almira Ettie Moody, Rexford, Thomas. Almira Ettie Moody, Rexford, Thomas. Renoch K. Moody, Stuart, Smith. Daniel Estol Moore, Manhattan, Riley. Keats, Riley. Frank Herbert Morgan, Keats, Riley. Frank Herbert Morgan, Keats, Riley. Haddam, Washington. George Merrick Munger, Leura Maude Neblock, Harveyville, Wabaunsee.				·
Scott Long, Selma Daisy Deborah Lund, Charles W. Lyman, Manhattan, Riley. Mary Louise Maas, Inez Louise Mack, George Dodds Martin. George Dodds Martin. Fiskridge, Wabaunsee. Janna Mary Martin, Cora Luella Matthews, Cora Luella Matthews, Irving, Marshall. Irwin L. McCarty, William Bogart McCord, Manhattan, Riley. Martha M. McCullough, Nannie Catharine McCullough, Samuel Alexander McDowell. Charles Irving McGregor, William Dio McPhee, Ward Cadwell Mead, Winfred Medaris, James Edward Mercer, Harvey Robert Miller, John Mitchell, Stewart Mitchell, Stewart Mitchell, Stewart Mitchell, Stewart Mitchell, Merica Moody, Delayan, Morris Manhattan, Riley. Olivet, Osage. Olivet, Osage. Olivet, Osage. Olivet, Osage. Olivet, Osage. Ward Cadwell Mead, Maple City, Cowley. Winfred Medaris, James Edward Mercer, Harvey Robert Miller, Wabaunsee, Wabaunsee. Mary Ettie Mitchell, Burlingame, Osage. Oliver L. Mitchell, Burlingame, Osage. Julius Frederick Moerer, Piqua, Woodson. Minnie Minerva Moffett, Manhattan, Riley. Almira Ettie Moody, Rexford, Thomas. Frank Herbert Morgan, Keats, Riley. Charles Milton Morgan, Keats, Riley. Frank Herbert Morgan, Keats, Riley. Frank Herbert Morgan, Keats, Riley. Haddam, Washington. George Merrick Munger, Clarence Lea Myers, Maude Anna Naylor, Alta Vista, Wabaunsee. Laura Maude Neblook, Harveyville, Wabaunsee.	•			• .
Selma Daisy Deborah Lund, Charles W. Lyman, Manhattan, Riley. Mary Louise Maas, Alma, Wabaunsee. Inez Louise Mack, George Dodds Martin. Eskridge, Wabaunsee. Janna Mary Martin, Sekridge, Wabaunsee. Janna Mary Martin, Sekridge, Wabaunsee. Charles Matter, Manhattan, Riley. Cora Luella Matthews, Irving, Marshall. Cecil Eugene Matthews, Irving, Marshall. Irwin L. McCarty; Conway, McPherson. William Bogart McCord, Manhattan, Riley. Martha M. McCullough, Delavan, Morris. Samuel Alexander McDowell. Charles Irving McGregor, George Vernon McKeever, William Dio McPhee, Mard Cadwell Mead, William Dio McPhee, Marhattan, Riley. Marhattan, Riley. James Edward Mercer, Harvey Robert Miller, John Mitchell, Mary Ettie Mitchell, Stewart Mitchell, Melvern, Osage. Minnie Minerva Moffett, Manhattan, Riley. Melvern, Osage. Melve				, •
Charles W. Lyman, Manhattan, Riley. Mary Louise Maas, Alma, Wabaunsee. Inez Louise Mack, Red Creek, New York. George Dodds Martin. Eskridge, Wabaunsee. Janna Mary Martin, Eskridge, Wabaunsee. Charles Matter, Manhattan, Riley. Cora Luella Matthews, Irving, Marshall. Cecil Eugene Matthews, Irving, Marshall. Irwin L. McCarty; Conway, McPherson. William Bogart McCord, Manhattan, Riley. Martha M. McCullough, Delavan, Morris. Nannie Catharine McCullough, Delavan, Morris. Samuel Alexander McDowell. Manhattan, Riley. Charles Irving McGregor, Olivet, Osage. George Vernon McKeever, Valley Falls, Jefferson. William Dio McPhee, Anthony, Harper. Ward Cadwell Mead. Maple City, Cowley. Winfred Medaris, Manhattan, Riley. James Edward Mercer, Topeka, Shawnee. Harvey Robert Miller, Wabaunsee, Wabaunsee. John Mitchell, North Topeka, Shawnee. Mary Ettie Mitchell, Burlingame, Osage. Oliver L. Mitchell, Burlingame, Osage. William Henry Mitchell, Melvern, Osage. Julius Frederick Moerer, Piqua, Woodson. Minnie Minerva Moffett, Manhattan, Riley. Alida Ellen Moody, Rexford, Thomas. Almira Ettie Moody, Stuart, Smith. Daniel Estol Moore, Manhattan, Riley. Charles Milton Morgan, Keats, Riley. Frank Herbert Morgan, Keats, Riley. Frank Herbert Morgan, Keats, Riley. Charles Milton Morgan, Keats, Riley. Charles Manda Anna Naylor, Alta Vista, Wabaunsee. Laura Maude Neblock, Harveyville, Wabaunsee.	_			· · · · · · · · · · · · · · · · · · ·
Mary Louise Mack, Red Creek, New York. George Dodds Martin. Eskridge, Wabaunsee. Janna Mary Martin, Eskridge, Wabaunsee. Charles Matter, Manhattan, Riley. Cora Luella Matthews, Irving, Marshall. Cecil Eugene Matthews, Irving, Marshall. Irwin L. McCarty, Conway, McPherson. William Bogart McCord, Manhattan, Riley. Martha M. McCullough, Delavan, Morris. Nannie Catharine McCullough, Delavan, Morris. Samuel Alexander McDowell. Manhattan, Riley. Charles Irving McGregor, Olivet, Osage. George Vernon McKeever, Valley Falls, Jefferson. William Dio McPhee, Anthony, Harper. Ward Cadwell Mead. Maple City, Cowley. Winfred Medaris, Manhattan, Riley. James Edward Mercer, Topeka, Shawnee. Harvey Robert Miller, Wabaunsee, Wabaunsee. John Mitchell, North Topeka, Shawnee. Mary Ettie Mitchell, Groveland, McPherson. Stewart Mitchell, Burlingame, Osage. Uilius Frederick Moerer, Piqua, Woodson. Minnie Minerva Moffett, Manhattan, Riley. Alida Ellen Moody, Rexford, Thomas. Almira Ettie Moody, Stuart, Smith. Daniel Estol Moore, Manhattan, Riley. Charles Milton Morgan, Keats, Riley. Frank Herbert Morgan, Keats, Riley. Frank Herbert Morgan, Keats, Riley. Charles Milton Morgan, Keats, Riley. Frank Herbert Monger, Hardem, Wabaunsee. Laura Maude Neblock, Harveyville, Wabaunsee.				
Inez Louise Mack, George Dodds Martin. George Dodds Martin. Janna Mary Martin, Charles Matter, Charles Matter, Cora Luella Matthews, Cori Luella Matthews, Cori Eugene Matthews, Irving, Marshall. Irwin L. McCarty, Conway, McPherson. William Bogart McCord, Manhattan, Riley. Martha M. McCullough, Martha M. McCullough, Delavan, Morris. Samuel Alexander McDowell, Manhattan, Riley. Olivet, Osage. George Vernon McKeever, William Dio McPhee, Ward Cadwell Mead, Winfred Medaris, James Edward Mercer, Harvey Robert Miller, John Mitchell, Mary Ettie Mitchell, Mary Ettie Mitchell, Stewart Mitchell, Stewart Mitchell, William Henry Mitchell, Melvern, Osage. Oliver L. Mitchell, Melvern, Osage. Milliam Frederick Moerer, Piqua, Woodson. Minnie Minerva Moffett, Almira Ettie Moody, Rexford, Thomas. Enoch K. Moody, Stuart, Smith. Daniel Estol Moore, Charles Milton Morgan, Frank Herbert Morgan, Frank Herbert Munger, George Merrick Munger, Claurenee Lea Myers, Maude Anna Naylor, Alta Vista, Wabaunsee. Laura Maude Neblock, Harveyville, Wabaunsee. Laura Maude Neblock, Laura Maude Neblock, Harveyville, Wabaunsee.	Mary Louise Maas			
George Dodds Martin. Janna Mary Martin, Charles Matter, Cora Luella Matthews, Ceil Eugene Matthews, Irving, Marshall. Juring, Marshall. Jur	Inez Louise Mack			•
Janna Mary Martin, Eskridge, Wabaunsee. Charles Matter, Manhattan, Riley. Cora Luella Matthews, Irving, Marshall. Iving, Marshall. Iving, Marshall. Inving, Marshall. Iving, Marshall				•
Charles Matter,	9			9 1
Cecil Eugene Matthews,				9 -
Cecil Eugene Matthews,	Cora Luella Matthews.			
Irwin L. McCarty;				_
William Bogart McCord, Manhattan, Riley. Martha M. McCullough, Delavan, Morris. Nannie Catharine McCullough, Delavan, Morris. Samuel Alexander McDowell, Manhattan, Riley. Charles Irving McGregor, Olivet, Osage. George Vernon McKeever, Valley Falls, Jefferson. William Dio McPhee, Anthony, Harper. Ward Cadwell Mead, Maple City, Cowley. Winfred Medaris, Manhattan, Riley. James Edward Mercer, Topeka, Shawnee. Harvey Robert Miller, Wabaunsee, Wabaunsee. John Mitchell, North Topeka, Shawnee. Mary Ettie Mitchell, Burlingame, Osage. Oliver L. Mitchell, Groveland, McPherson. Stewart Mitchell, Burlingame, Osage. William Henry Mitchell, Melvern, Osage. Julius Frederick Moerer, Piqua, Woodson. Minnie Minerva Moffett, Manhattan, Riley. Aldia Ellen Moody, Rexford, Thomas. Almira Ettie Moody, Rexford, Thomas. Enoch K. Moody, Stuart, Smith. Daniel Estol Moore, Manhattan, Riley. Charles Milton Morgan, Keats, Riley. Frank Herbert Morgan, Keats, Riley. Debbie Lenora Mosher, Haddam, Washington. George Merrick Munger, Eureka, Greenwood. Clarence Lea Myers, Holton, Jackson. Maude Anna Naylor, Alta Vista, Wabaunsee. Laura Maude Neblock, Harveyville, Wabaunsee.				
Martha M. McCullough,				•
Nannie Catharine McCullough, . Delavan, Morris. Samuel Alexander McDowell, . Manhattan, Riley. Charles Irving McGregor, . Olivet, Osage. George Vernon McKeever, . Valley Falls, Jefferson. William Dio McPhee, . Anthony, Harper. Ward Cadwell Mead Maple City, Cowley. Winfred Medaris, . Manhattan, Riley. James Edward Mercer, . Topeka, Shawnee. Harvey Robert Miller, . Wabaunsee, Wabaunsee. John Mitchell, . North Topeka, Shawnee. Mary Ettie Mitchell, . Burlingame, Osage. Oliver L. Mitchell, . Groveland, McPherson. Stewart Mitchell, . Burlingame, Osage. William Henry Mitchell, . Melvern, Osage. Julius Frederick Moerer, . Piqua, Woodson. Minnie Minerva Moffett, . Manhattan, Riley. Aldia Ellen Moody, . Rexford, Thomas. Almira Ettie Moody, . Rexford, Thomas. Enoch K. Moody, . Stuart, Smith. Daniel Estol Moore, . Manhattan, Riley. Charles Milton Morgan, . Keats, Riley. Frank Herbert Morgan, . Keats, Riley. Debbie Lenora Mosher, . Haddam, Washington. George Merrick Munger, . Eureka, Greenwood. Clarence Lea Myers, . Holton, Jackson. Maude Anna Naylor, . Alta Vista, Wabaunsee. Laura Maude Neblock, . Harveyville, Wabaunsee.				, •
Samuel Alexander McDowell, Charles Irving McGregor, George Vernon McKeever, William Dio McPhee, Ward Cadwell Mead, Winfred Medaris, James Edward Mercer, Harvey Robert Miller, John Mitchell, Wiltchell, William Henry Mitchell, Julius Frederick Moerer, Julius Frederick Moerer, Minnie Minerva Moffett, Alida Ellen Moody, Alida Ellen Moody, Alida Elstol Moore, Charles Milton Morgan, Frank Herbert Morgan, George Merrick Munger, Clarence Lea Myers, Manhattan, Riley. Valley Falls, Jefferson. Valley Falls, Jefferson. Manhattan, Riley. Man				,
Charles Irving McGregor, George Vernon McKeever, William Dio McPhee, Ward Cadwell Mead, Waple City, Cowley. Winfred Medaris, James Edward Mercer, Harvey Robert Miller, John Mitchell, William Hitchell, Stewart Mitchell, William Henry Mitchell, Melvern, Osage. William Henry Moderer, Minnie Minerva Moffett, Alida Ellen Moody, Enoch K. Moody, Daniel Estol Moore, Charles Milton Morgan, Frank Herbert Morgan, Clarence Lea Myers, Manhatvan, Riley, Manhatvan, Riley, Wabaunsee, Vabaunsee, Valley Falls, Jefferson. Wapaunsee, Valley Falls, Jefferson. Waphattan, Riley. Wabaunsee, Wabaunsee, Valley Falls, Jefferson. Waphattan, Riley. Wabaunsee, Walley Falls, Jefferson. Waphattan, Riley. Wabaunsee, Laura Maude Neblock, Walley Falls, Jefferson. Waphattan, Riley. Wabaunsee, Laura Maude Neblock, Walley Falls, Jefferson. Waphattan, Riley. Walley Falls, Jefferson. Waphattan, Riley. Walley Falls, Jefferson. Waphattan, Riley. Walley Falls, Jefferson. Walley Falls, Jefferson. Walley Falls, Jefferson. Waphattan, Riley. Wabaunsee, Laura Maude Neblock, Harveyville, Wabaunsee.		_		•
George Vernon McKeever, William Dio McPhee, Ward Cadwell Mead, Winfred Medaris, James Edward Mercer, Harvey Robert Miller, John Mitchell, Moltchell, Stewart Mitchell, William Henry Mitchell, Julius Frederick Moerer, Minnie Minerva Moffett, Alida Ellen Moody, Almira Ettie Moody, Charles Milton Morgan, Frank Herbert Morgan, Clarence Lea Myers, Manhattan, Riley, Manhattan, Riley, Anthony, Harper. Maple City, Cowley. Manhattan, Riley. Mahattan, Riley. Moodand, McPherson. Burlingame, Osage. William Henry Mitchell, Melvern, Osage. Piqua, Woodson. Manhattan, Riley. Manhattan, Riley. Mexford, Thomas. Stuart, Smith. Daniel Estol Moore, Manhattan, Riley. Keats, Riley. Frank Herbert Morgan, Keats, Riley. Clarence Lea Myers, Manhaton, Jackson. Maude Anna Naylor, Alta Vista, Wabaunsee. Laura Maude Neblock, Harveyville, Wabaunsee.				• , •
William Dio McPhee, Ward Cadwell Mead, Waple City, Cowley. Winfred Medaris, James Edward Mercer, Harvey Robert Miller, John Mitchell, Wabaunsee, Wabaunsee. Mary Ettie Mitchell, Oliver L. Mitchell, Stewart Mitchell, William Henry Mitchell, Melvern, Osage. William Henry Mitchell, Melvern, Osage. William Frederick Moerer, Minnie Minerva Moffett, Alida Ellen Moody, Rexford, Thomas. Almira Ettie Moody, Stenoch K. Moody, Daniel Estol Moore, Charles Milton Morgan, Frank Herbert Morgan, Ceorge Merrick Munger, Clarence Lea Myers, Manda Vabaunsee. Manda Vabaunsee. Laura Maude Neblock, Manhatvan, Riley. Malda Vashington. Manda Vista, Wabaunsee. Manda Vashington. Manda Vista, Wabaunsee.				
Ward Cadwell Mead,	7771111 701 34 701			
Winfred Medaris, James Edward Mercer, Harvey Robert Miller, John Mitchell, Wabaunsee, Wabaunsee. Mary Ettie Mitchell, Oliver L. Mitchell, Stewart Mitchell, William Henry Mitchell, Melvern, Osage. William Henry Mitchell, Melvern, Osage. William Frederick Moerer, Minnie Minerva Moffett, Alida Ellen Moody, Rexford, Thomas. Almira Ettie Moody, Stenoch K. Moody, Daniel Estol Moore, Manhattan, Riley. Charles Milton Morgan, Frank Herbert Morgan, Ceorge Merrick Munger, George Merrick Munger, Clarence Lea Myers, Manhat Vista, Wabaunsee. Laura Maude Neblock, Harveyville, Wabaunsee.	Ward Cadwell Mead.	e .		-
James Edward Mercer, Harvey Robert Miller, John Mitchell, John Mitchell, Mary Ettie Mitchell, Mitchell, Burlingame, Osage. Oliver L. Mitchell, Stewart Mitchell, Burlingame, Osage. William Henry Mitchell, Julius Frederick Moerer, Minnie Minerva Moffett, Alida Ellen Moody, Rexford, Thomas. Almira Ettie Moody, Burlingame, Osage. William Henry Mitchell, Melvern, Osage. Piqua, Woodson. Manhattan, Riley. Alida Ellen Moody, Rexford, Thomas. Almira Ettie Moody, Stuart, Smith. Daniel Estol Moore, Charles Milton Morgan, Frank Herbert Morgan, Charles Milton Morgan, George Merrick Munger, George Merrick Munger, Clarence Lea Myers, Manda Vista, Wabaunsee. Laura Maude Neblock, Harveyville, Wabaunsee.	Winfred Medaris			
Harvey Robert Miller, Wabaunsee, Wabaunsee. John Mitchell, North Topeka, Shawnee. Mary Ettie Mitchell, Burlingame, Osage. Oliver L. Mitchell, Groveland, McPherson. Stewart Mitchell, Burlingame, Osage. William Henry Mitchell, Melvern, Osage. Julius Frederick Moerer, Piqua, Woodson. Minnie Minerva Moffett, Manhattan, Riley. Alida Ellen Moody, Rexford, Thomas. Almira Ettie Moody, Rexford, Thomas. Enoch K. Moody, Stuart, Smith. Daniel Estol Moore, Manhattan, Riley. Charles Milton Morgan, Keats, Riley. Frank Herbert Morgan, Keats, Riley. Debbie Lenora Mosher, Haddam, Washington. George Merrick Munger, Eureka, Greenwood. Clarence Lea Myers, Holton, Jackson. Maude Anna Naylor, Alta Vista, Wabaunsee. Laura Maude Neblock, Harveyville, Wabaunsee.				
John Mitchell, North Topeka, Shawnee. Mary Ettie Mitchell,				•
Mary Ettie Mitchell,				
Oliver L. Mitchell,				*
Stewart Mitchell,	Oliver L. Mitchell			
William Henry Mitchell, Julius Frederick Moerer, Minnie Minerva Moffett, Alida Ellen Moody, Almira Ettie Moody, Enoch K. Moody, Daniel Estol Moore, Charles Milton Morgan, Frank Herbert Morgan, Debbie Lenora Mosher, George Merrick Munger, Clarence Lea Myers, Mandat Mercon Melvern, Osage. Piqua, Woodson. Malevan, Riley. Manhattan, Riley. Manhattan, Riley. Keats, Riley. Keats, Riley. Haddam, Washington. George Merrick Munger, Clarence Lea Myers, Manda Anna Naylor, Alta Vista, Wabaunsee. Laura Maude Neblock, Harveyville, Wabaunsee.	Stewart Mitchell			•
Julius Frederick Moerer, Piqua, Woodson. Minnie Minerva Moffett, Manhattan, Riley. Alida Ellen Moody, Rexford, Thomas. Almira Ettie Moody, Stuart, Smith. Daniel Estol Moore, Manhattan, Riley. Charles Milton Morgan, Keats, Riley. Frank Herbert Morgan, Keats, Riley. Debbie Lenora Mosher, Haddam, Washington. George Merrick Munger, Eureka, Greenwood. Clarence Lea Myers, Holton, Jackson. Maude Anna Naylor, Alta Vista, Wabaunsee. Laura Maude Neblock, Harveyville, Wabaunsee.				
Minnie Minerva Moffett, Manhattan, Riley. Alida Ellen Moody, Rexford, Thomas. Almira Ettie Moody, Stuart, Smith. Daniel Estol Moore, Manhattan, Riley. Charles Milton Morgan, Keats, Riley. Frank Herbert Morgan, Keats, Riley. Debbie Lenora Mosher, Haddam, Washington. George Merrick Munger, Eureka, Greenwood. Clarence Lea Myers, Holton, Jackson. Maude Anna Naylor, Alta Vista, Wabaunsee. Laura Maude Neblock, Harveyville, Wabaunsee.	•			, ,
Alida Ellen Moody,	•			•
Almira Ettie Moody,	· ·			• •
Enoch K. Moody, Stuart, Smith. Daniel Estol Moore,				•
Daniel Estol Moore,	TO 1 77 3.4 1			•
Charles Milton Morgan, Keats, Riley. Frank Herbert Morgan, Keats, Riley. Debbie Lenora Mosher, Haddam, Washington. George Merrick Munger, Eureka, Greenwood. Clarence Lea Myers, Holton, Jackson. Maude Anna Naylor, Alta Vista, Wabaunsee. Laura Maude Neblock, Harveyville, Wabaunsee.	Daniel Estol Moore.			
Debbie Lenora Mosher,	Charles Milton Morgan.			
Debbie Lenora Mosher, Haddam, Washington. George Merrick Munger, Eureka, Greenwood. Clarence Lea Myers, Holton, Jackson. Maude Anna Naylor, Alta Vista, Wabaunsee. Laura Maude Neblock, Harveyville, Wabaunsee.	Frank Herbert Morgan.			
George Merrick Munger, Eureka, Greenwood. Clarence Lea Myers, Holton, Jackson. Maude Anna Naylor, Alta Vista, Wabaunsee. Laura Maude Neblock, Harveyville, Wabaunsee.			_	
Clarence Lea Myers, Holton, Jackson. Maude Anna Naylor, Alta Vista, Wabaunsee. Laura Maude Neblock, Harveyville, Wabaunsee.				
Maude Anna Naylor, Alta Vista, Wabaunsee. Laura Maude Neblock, Harveyville, Wabaunsee.				•
Laura Maude Neblock, Harveyville, Wabaunsee.	Maude Anna Navlor			
· · · · · · · · · · · · · · · · · · ·	Laura Maude Neblock			
	Stephen Needham, .	•		Lane, Franklin.

Names. Hans Peter Nielson, .				Post Office and County. Denmark, Lincoln.
Cora Noel,		:	•	Valencia, Shawnee.
Cacil William Noel	•		•	Valencia, Shawnee.
Cecil William Noel, . Ellen Elizabeth Norton,	•		•	Manhattan, Riley.
John Bitting Smith Norton				Manhattan, Riley.
Mary Augusta Norton,		•	•	Manhattan, Riley.
Elmer Nutting,				Ames, Cloud.
William Dalrymple Oakfor		•	•	Fredonia, Wilson.
Lillian Oldham,			•	Keats, Riley.
William Hackworth Painte		:	:	Meade, Meade.
Elva Luthera Palmer,		:	-	Clifton, Clay.
Inez Luella Palmer, .			•	Clifton, Clay.
		•	•	
Mabel Palmer,	•	٠	•	Burlingame, Osage.
Nellie M. Palmer, .		•	•	Burlingame, Osage.
	•	•	•	Silver Lake, Shawnee.
John Vernon Patten,		•	•	Silver Lake, Shawnee.
Clarence Herbert Paul, Campbell Kenedy Peck,	•	•	• .	Waterville, Marshall.
Campbell Kenedy Peck,	•		•	Junction City, Geary.
Russell John Peck, .		•	•	Big Valley, Texas.
Clara Jane Pender, .	•	•	•	Pueblo, Colorado.
Hans Christian Peterson,			•	Greenleaf, Washington.
Jay Phelps,	•	•	•	McDonald, Rawlins.
Alexander Calvin Pike,		٠	•	Westmoreland, Pottawatomie.
Emma Dell Pike, .		•	•	Westmoreland, Pottawatomie.
Lotty Pishney,	•	•	•	Cleburne, Riley.
George Allan Plasket,	•	•	•	Claffin, Barton.
Mamie E. Polson, .	•	•	•	Winkler's Mills, Riley.
John Poole,			•	Briggs, Geary.
Charles Stephens Pope,			•	Cawker City, Mitchell.
				Netawaka, Jackson.
Edgar Arthur Powell,				Osage City, Osage.
John Purcell,				Manhattan, Riley.
Lisle Willits Pursel, .				Manhattan, Riley.
Florence Amelia Quantic,			•	Keats, Riley.
Alice Julia Quintard, .				Silver Lake, Shawnee.
Maude Myrtle Quintard,				Silver Lake, Shawnee.
Ralph Waldo Rader, .				Manhattan, Riley.
Clara Belle Ramsey, .				St. Mary's, Pottawatomie.
				Manhattan, Riley.
				Delphos, Ottawa.
Jesse Howard Rhoades,	•			Gardner, Johnson.
William Joseph Rhoades,				Gardner, Johnson.
James Atkinson Rich,				Ellis, Trego.
Ambrose Elliot Ridenour,				Formoso, Jewell.
William Samuel Robb,				Scottsville, Mitchell.
Alonzo Wellington Roe,	•		:	Dorrance, Russell.
months of the state of the stat	•	•	•	20210100, 10000011.

Names.				Post Office and County.
Pearl Albro Rogers, .				Burlingame, Osage.
Jennie Myrtle Romick,				Manhattan, Riley.
Fred Rowland,				Eskridge, Wabaunsee.
Beulah Melvin Royce,				Carleton, Dickinson.
Benjamin Franklin Simeo:	n Roy	yer,		Sterling, Rice.
Edward Sandell,				Manhattan, Riley.
Frederick William Schaebe	er,			Oak Hill, Clay.
Eugene E. Schmitz, .				Alma, Wabaunsee.
Ulysses Allison Screechfiel	d,			Minneapolis, Ottawa.
Ernest Schubert, .				Centralia, Nemaha.
Augusta Alvine Wilhelmine	e Sch	uner	ıan,	Burzen, Germany.
Rosa Alice Sealock, .				Twelvemile, Smith.
James Marshall Shearer,				Frankfort, Marshall.
Alice Myrtle Shofe, .				Manhattan, Riley.
Gertrude Werden Shofe,				Manhattan, Riley.
Charles Ellsworth Shoup,				Russell, Russell.
Charles Wesley Shull,				Manhattan, Riley.
Emma Almira Shull, .				Manhattan, Riley.
Corodan Allen Sigman,				Manhattan, Riley.
George William Simms,	•			New Helena, Nebraska.
Fred Smiley,	•			Tecumseh, Nebraska.
Etta Smith,				Manhattan, Riley.
Frederick John Smith,				Iwacura, Clay.
George William Smith,				Mankato, Jewell.
Kitty Myrtle Smith, .				Manhattan, Riley.
William Alfred Smith,				Bonfield, Illinois.
Carl Snyder,				Oskaloosa, Jefferson.
Bertha Julia Spohr, .				Manhattan, Riley.
Edith Stafford,				Leonardville, Riley.
Bertha Anora Steele, .				Minneapolis, Ottawa.
Mary Letha Steele, .				Junction City, Geary.
Joseph Stephens, .				Willard, Shawnee.
Nellie Gertrude Stewart,				Olsburg, Pottawatomie.
Anna Louise Stingley,				Manhattan, Riley.
Sadie Stingley,				Manhattan, Riley.
Charles Harrison Stokely,				Burlingame, Osage.
Miriam Esther Swingle,				Manhattan, Riley.
Eli Joseph Thompson,				Haviland, Kiowa.
Elmer Thomas Thompson,				Smith Center, Smith.
Louis James Thompson,				Garden Plain, Sedgwick.
Nelle B. Thompson, .				Wamego, Pottawatomie.
William Mathew Towers,				Manhattan, Riley.
Charles Clifford Towner,				Fall River, Greenwood.
				Manhattan, Riley.
Elven Creveling Trembly,				Council Grove, Morris.
Frank George Trzaskowsk				Junction City, Geary.

Names.			Post Office and County.
Corinne Tucker,			Clinton, Douglas.
Ada Van Gaasbeck,			Alta Vista, Wabaunsee.
Hattie Van Gaasbeck, .			North Cedar, Jefferson.
Theodore Luther Velen, .			Cleburne, Riley.
Olive Voiles,			Manhattan, Riley.
Hilda Germania Walters, .			Manhattan, Riley.
Albert Murry Warner, .			Topeka, Shawnee.
George Walter Washington,			Manhattan, Riley.
Ross Clark Wells,			Kansas City, Missouri.
Claude Ray West,			Columbus, Cherokee.
Ernest Louis Wetzig, .			Winkler's Mills, Riley.
Ernest P. Whaley,			Millard, Barton.
Louise Clara Wiest,			Manhattan, Riley.
Christopher Wilson,			Glasco, Cloud.
Olive Mabel Wilson,			Austin, Illinois.
May Lizzie Winters,			St. Mary's, Pottawatomie.
Edgar R. Wood,			Rossville, Shawnee.
William Hollingsworth Wood,			Byron, Nebraska.
William Alexander Wright,			Denison, Jackson.
Ora Gertrude Yenawine, .			Manhattan, Riley.
Charles D. Young,	•		Yates Center, Woodson.
Grace Ellen Ziegler,	•	•	Manhattan, Riley.

SUMMARY.

	Gentle- men.	Ladies.	Total.
Post-graduate		7	10
Fourth year	$\begin{array}{c} 27 \\ 43 \end{array}$	10 19	37 62
Second yearFirst year	$\begin{array}{c} 93 \\ 236 \end{array}$	46 100	139 336
Totals	402	182	584

From 77 counties of Kansas, 552.

From 14 other States, 32.

Applicants not enrolled, 29.

OBJECTS AND METHODS.

THE ENDOWMENT AND RESOURCES.

An act of Congress, approved July 2, 1862, gave to each State public lands to the amount of 30,000 acres for each of the Senators and Representatives in Congress according to the census of 1860, for 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 order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life."

Under this act the State of Kansas received 82,313.53 acres of land, and, in 1863, established the State Agricultural College, by endowing with these lands Bluemont College, which had been erected two miles from Manhattan, under the auspices of the M. E. Church, but was presented to the State for the purpose named in the act of Congress.

In 1873 the College was reorganized upon a thoroughly industrial basis, with prominence given to practical agriculture and related sciences; and in 1875 the furniture and apparatus of the College were moved to the farm of 215 acres, one mile from the city of Manhattan. On this fine location the State has erected buildings valued at \$135,000, of which a description is given elsewhere. The farm and grounds, furniture, stock, and other illustrative apparatus, are valued at \$150,000. The present value of buildings, grounds, apparatus, etc., is almost exactly equal to the sum of all appropriations by the State. All the lands have been sold, giving a fund of \$502,927.35, which is by law invested in bonds, the interest alone being used for the current expenses of the College.

The annual income from the endowment fund—about \$32,000—is supplemented by an appropriation under an act of Congress approved August 30, 1890, of \$15,000 for 1890, \$16,000 for 1891, \$17,000 for 1892, and a sum increasing each year by \$1,000 until the annual amount shall be \$25,000. This fund is "to be applied only to instruction in agriculture, the mechanic arts, and the English language, and the various branches of mathematical, physical, natural and economic science, with special reference to their application in the industries of life, and to the facilities for such instruction." "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."





STUDENTS AT WORK IN THE GARDENS.

All expense of instruction is thus provided for, and the State is left to erect the necessary buildings and meet expenses in management of the funds.

Under an act of Congress approved March 7, 1887, the College receives, by general appropriation in Congress, \$15,000 each year for the maintenance of an Experiment Station, "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." The property of the Station, including a building erected especially for its use, amounts to more than \$10,500.

OBJECTS

This College now accomplishes the objects of its endowment in several ways:

First, it gives a substantial education to men and women. Such general information and discipline of mind and character as help to make intelligent and useful citizens are offered in all its departments, while the students are kept in sympathy with the callings of the people.

Second, it teaches the sciences applied to the various industries of farm, shop, and home. Chemistry, botany, entomology, zoölogy, and mechanics are made prominent means of education to quick observation and accurate judgment. Careful study of the minerals, plants and animals themselves illustrates and fixes the daily lessons. At the same time lessons in agriculture, horticulture, engineering and household economy show the application of science; and all are enforced by actual experiment.

Third, it trains in the elements of the arts themselves, and imparts such skill as to make the hands ready instruments of thoughtful brains. The drill of the shops, gardens, farm and household departments is made a part of a general education to usefulness, and insures a means of living to all who make good use of it. At the same time it preserves habits of industry and manual exertion, and cultivates a taste for rural and domestic pursuits.

Fourth, it strives to increase our experimental knowledge of agriculture and horticulture. The provision for extensive and accurate researches, made by establishing the Experiment Station as a distinct department of the College, offers assurance of more definite results than can be obtained by ordinary methods. The Professors of Agriculture, Horticulture, Chemistry, Botany, and Veterinary Science, together with the President of the College, form the Experiment Station Council, by authority of which experiments are undertaken and carried on in the several departments, under the special supervision of the professors. These touch "the physiology of plants and animals; the diseases to which they are severally subject, with remedies for the same; the chemical composition of useful plants at their different stages of growth; the

comparative advantages of rotative cropping as pursued under a varying series of crops; the capacity of new plants or trees for acclimation; the analysis of soils and waters; 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."

The bulletins of the Station, issued at least as often as once in three months, are sent, according to law, free of postage, to all newspapers in the State, and "to such individuals actually engaged in farming as may request the same, and as far as the means of the Station will permit." Correspondence with reference to bulletins and experiments is welcomed, and may be addressed to the several members of the Council.

Fifth, it seeks to extend the influence of knowledge in practical affairs beyond the College itself. For this purpose it publishes the weekly Industrialist. Its officers also share in the debates and consultations of farmers and horticulturists throughout the State. Each winter a series of at least ten farmers' institutes is held in as many different counties of the State. In these the Faculty share with the people in lectures, essays and discussions upon topics of most interest to farmers. These institutes, held for the past eleven years, have brought the College into direct sympathy with the people and their work, so as to make possible a general dissemination of the truths presented; and permanent organizations for the same purpose in many counties are increasing. Correspondence upon such questions is invited by all members of the Faculty, and applications for institutes are desired from all parts of the State.

COURSE OF STUDY.

The necessity for so adjusting various branches of a course of study that there shall be as little waste as possible in acquiring both information and discipline, is felt by every teacher. Such a course is not designed to be absolutely inflexible, but to guide the judgment into some definite line of progress from which no mere whim shall turn a student aside.

Each student is expected to take three studies, besides one hour's daily practice in an industrial art; and variations from this rule can be made only with the consent of the Faculty.

Parallel courses are offered to both sexes, with such differences as their necessities seem to call for. The following gives the general scope of the two, but fuller explanations are found under "Outline of Instruction:"



FIRST YEAR.

Fall Term.....Algebra.

English Analysis.

Geometrical Drawing.

Industrial.

Winter Term . . Algebra.

English Composition.

Book-keeping.

Free-hand Drawing three times a week.

Industrial.

Spring Term...Algebra.

English Structure.

Botany.

Industrial (Carpentry or Sewing).

SECOND YEAR.

Fall Term.....Geometry.

Elementary Chemistry.

Horticulture.

Industrial.

Winter Term..Geometry completed, Projection Drawing.

Agriculture or Household Economy.

Organic Chemistry and Mineralogy.

Twelve Lectures in Military Science.

Industrial (Cooking).

Spring Term... Anatomy and Physiology.

Entomology.

Analytical Chemistry.

Twenty Lectures in Military Science.

Industrial (Farm and Garden or Dairy).

THIRD YEAR.

Fall Term.....Trigonometry and Surveying.

Agricultural Chemistry.

General History.

Industrial (Farm and Garden).

Winter Term . . Mechanics.

Constitutional History and Civil Government.

Rhetoric.

Industrial.

Spring Term...Civil Engineering or Hygiene.

Physics.

English Literature.

Perspective Drawing two hours a week; Drafting two

hours.

Industrial.

FOURTH YEAR.

Fall Term.....Agriculture or Literature.

Physics and Meteorology.

Psychology.

Industrial.

 ${\it Winter\ Term}$.. Logic, Deductive and Inductive.

Zoölogy.

Structural Botany.

Veterinary Science or Floriculture.

Industrial.

Spring Term...Geology.

Political Economy.

An elective in Agriculture, Horticulture, Mechanics,

or related sciences.

Industrial.

	CLASS HOURS, 1892-'93.											
HRS.				FIRST YEAR.				SECOND YEAR.			THIRD YEAR.	FOURTH YEAR.
·	I.	Algebra.	English.	Algebra.	Industrial.	Drawing.	Horticulture.	Chemistry.	Geometry.	Industrial.	General History. Trig. and Surveying.	Agriculture. Literature.
TERM (14 weeks)	и.	English.	Algebra.	Industrial.	Drawing.	English.	Chemistry.	Horticulture.	Industrial.	Geometry.	Industrial. General History.	Psychology.
	ш.	Drawing.	Industrial.		English.	Algebra.	Geometry.	Industrial.	Entomology.	Chemistry.	Trig. and Surveying. Physiology.	Physics Industrial.
ALL TE	ıv.	Industrial.	Drawing.	English.	Algebra.	Drill and Rhetoricals.	Industrial.	Geometry.	Chemistry.	Entomology.	Physiology. Industrial.	Industrial. Physics.
F.	v.	Drill and Rhetoricals.	Drill and Rhetoricals.	Drawing.	Drill and Rhetoricals.	Industrial.	Ch	emical Practice, I	orill, and Rhetoric	als.	Surveying Practice. Drill.	Drill and Rhetoricals.
WINTER TERM (12 weeks).	I,	Drawing.	Book- keeping,	Industrial.	English Composition,	Algebra.	Agriculture.	Geometry. Drawing.	Household	Economy.	Agricultural Chemistry.	Zoology.
	11.	Book- keeping.	Industrial.	English Composition.	Algebra.	Drawing.	Or, Chemistry. Blow-pipe.	Agriculture.	Blow-pipe, Or, Chemistry.	Drawing. Geometry.	Industrial. Mechanics.	Botany. Industrial.
	III.	Industrial.	English Stracture.	Algebra.	Drawing.	Book- keeping.	Industrial.	Or Chemistry. Blow-pipe.	Industrial.	Blow-pipe. Or, Chemistry.	Mechanics. Rhetoric.	Logic.
	IV.	English.	Algebra.	Drawing and Drill.	Book- keeping.	English Structure.	Drawing. Geometry.	Industrial. Mineralogy,	Geometry, Drawing.	Mineralogy. Industrial.	Rhetoric. Industrial.	Floriculture. Veterinary.
IM	v.	Algebra.	Drawing and Drill.	Book- keeping.	Industrial.	Industrial.	Milit'ry Science. Mineralogy.	Milit'ry Science, Industrial.	Minoralogy. Milit'ry Science.	Industrial, Milit'ry Science.	Drill and Rhetoricals.	Industrial. Botany.
	1.	Drawing.	Algebra.	Botany.	Industrial.	English Structure.	Entomology.	Physiology.			English Literature.	Political Economy.
weeks).	11.	Arithmetic.	Botany,	Industrial.	English Structure.	Algebra.	Physiology.	Entomology.	Analytical	Chemistry.	Engineering. Hygiene.	U.S. Constitution.
TERM (11	111.	U.S. History, Book-keep'g,	Industrial,	English Composition.	Algebra.	Botany.	Analytical	Ob fact	Horticulture.	Physiology.	Physics. Industrial.	Geology.
SPRING TE	IV.	English.	Eng'ish Composition.	Algebra.	Botany.	Industrial.	Analytical	onemistry.	Physiology.	Horticulture.	Industrial. Physics.	Industrial.
SPF	v.	Geography.		Drill and I	thetoricals.		Militar	y Science, Drill, F	thetoricals, and Da	airying.	Drawing. Rhetoricals.	Rhetoricals.

Industrial Training.—Closely adjusted to the course of study is Industrial Training in several of the arts, to which each student is required to devote at least one hour a day. Among the lines of training each student may select, with the approval of the Faculty, except in terms when special industrials are required. Young men may have farming, gardening and fruit-growing, wood-work and iron-work, or printing. Young women may take cooking, sewing, printing, floriculture, or music.

All young men must have their industrials for one term in the carpenter shop before completing the first year; and during the spring term of the second year and the fall term of the third year, upon the farm, garden, and orchards. Young women take their industrial for one term of the first year in sewing, and for the winter and spring terms of the second year in the kitchen laboratory and dairy.

The Daily Routine requires chapel at 8:30 a.m., and classes from 8:50 a.m. to 1 p.m., as shown under "Class Hours." Class rhetorical exercises are held weekly. Military drill is twice a week. On every Friday afternoon, at 1:30, all attend the public lecture or rhetorical exercises in chapel.

Special Courses.—Persons of suitable age or advancement who desire to pursue such branches of study as are most directly related to agriculture or other industries may select such studies under the advice of the Faculty. Assaying may be provided for by special arrangement, when students are qualified to pursue it.

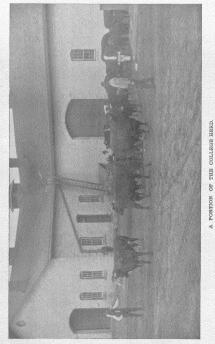
Post-Graduate Courses.—Arrangements can be made for advanced study in the several departments at any time, and outlines of courses will be furnished on application. Special opportunities for investigation and research will be afforded at all times to resident graduates in agriculture and agricultural chemistry, physics and chemistry, horticulture and botany, zoölogy and entomology, mathematics, engineering, and drafting. Every facility for advancement in the several arts taught at the College will be given such students, though they are not required to pursue industrial training while in these courses.

Degrees.—The degree of BACHELOR OF SCIENCE is conferred upon students who complete the full course of four years and sustain all the examinations.

The degree of Master of Science is conferred in course upon gradates who comply with the following conditions:

1. Each candidate shall furnish evidence satisfactory to the Faculty of proficiency in at least one of each of the groups of arts and science here named:

Agriculture. Botany.
Horticulture. Chemistry.
Engineering. Zoölogy.
Architecture and Designing. Entomology.
Domestic Economy. Physics.



- 2. Each candidate must present for consideration by the Faculty a satisfactory thesis, involving original researches in line with one or the other of the courses pursued as above, and shall deposit a perfect copy in the College library.
- 3. Application to the Faculty for sanction of the lines of study and research selected should be made as early as the first day of November, and the subject of the thesis must be settled upon as soon as the first day of January preceding the Commencement at which the degree is expected.
- 4. Candidates must be from graduates of three or more years' standing, unless a post-graduate course of one year or more has been pursued at this College, in which case the second degree may be conferred two years after graduation.

Outlines of direction for study and research in various arts and sciences, with special adaptation to the wants and opportunities of individual applicants, will be furnished, at request, to all graduates; and professors in charge will gladly aid by correspondence in any researches undertaken.

The degree of MASTER OF SCIENCE may be conferred upon the graduates of other colleges of like grade with our own, provided the applicant shall first satisfy the Faculty of his proficiency in the industrial studies distinctive of this institution, on the following conditions:

- 1. The applicant for the Master's degree must be a graduate of at least three years' standing, and a resident of Kansas.
- 2. His post-graduate study shall have been in line with that required of graduates of this College, as published in our Catalogue.
- 3. He must make application for the degree on or before the first day of January preceding the granting of the same. The application must be accompanied with a statement of his course of study, the work upon which the claim for the degree is based, and the subject selected for his thesis.
- 4. By April 1 an abstract of the thesis must be submitted to the Faculty.
- 5. Before May 15 the applicant shall present himself for examination. The examination shall be thorough and extensive, and shall be conducted by a special committee of the Faculty.

OUTLINE OF INSTRUCTION.

Agriculture.—Second Year.—History of Agriculture, showing the successive steps by which the art has attained its present position. History and characteristics of breeds: Their adaptation to the varying conditions of soil, climate, and situation; study of the forms of animals, as shown by the different breeds belonging to the College; the relation of stock-raising to general farming. Cultivation of hoed crops; management of corn and roots with reference to stock-feeding, and the growth of the finer grains. The growth of the tame grasses, in Kansas: The best sorts for the State, and their management, as

shown by experience upon the College farm and elsewhere. Implements of simple tillage: Mechanical principles involved in their construction. Application of labor. Draught: Different adjustments as affecting draught. Plows for soil and subsoil. Drainage: Soils that need drainage; how to lay out a system of drains.

Fourth Year.—General principles governing the development of domestic animals: The laws of hereditary disease—of normal, abnormal and acquired characters; atavism; correlation in the development of parts; in-and-in breeding and cross-breeding; influences affecting fecundity. The selection and arrangement of the farm with reference to the system to be pursued. Rotation of crops: General advantages of a rotation; the best rotation for the distribution of labor, production of manure, and extermination of weeds. Planning farm buildings—barns, piggeries, and stables. Manure: How best housed and applied; composting; commercial fertilizers. Agricultural experiments; field and feeding experiments. Stock-feeding and meat production: Stallfeeding; soiling.

Horticulture.—It is the aim to teach this art from a botanical basis. The student applies his knowledge of the prime facts in botanical physiology to the various operations of the nursery, orchard, and farm. Instruction is given by a series of lectures upon the following topics, among others: The scope of Horticulture. General principles of propagation-by buds, by seeds. Production of improved varieties-by careful selection of seeds, by interfertilization of known kinds. Perpetuation of valuable sorts of fruits by bud propagation - budding, grafting, layering, etc. The important points in nursery manipulation. The orchard: Conditions of site, soil, exposure, elevation; special treatment of different kinds of fruit trees; pruning; gathering and storing fruits. Small-fruit culture: List of varieties suitable for Kansas planting. Vegetable garden: Selection and preservation of seeds; planting and transplanting; the management and use of hot-bed and cold-frame. Forest plantations. Wind-breaks. Hedges. Trees and shrubs for ornamental planting.

In the winter term of the fourth year the young women study "Floriculture," the subject including general green-house management; the treatment of plants in window gardening, the growing of flowering plants in the open air, the destruction of plant pests, etc.; practice in the plant-houses alternating with lectures on these topics.

Entomology.—This science is studied with special reference to its economic relations with agriculture and horticulture. A brief course in the principles of classification is followed by a more extended study of the life-history of beneficial and injurious insects, and means for encouragement of the one and for control of the other.

The instruction is presented in the form of lectures. Illustrations are furnished from the individual collections of the students, and from the entomological collections belonging to the College. Charts and



CHEMICAL LABORATORY, ANALYTICAL BOOM.

drawings from nature are used to illustrate points of value in classification. The pocket lens used in botany is required in this study.

Botany.—During the College course two terms are given to the study of Botany.

ELEMENTARY BOTANY.—In the spring term of the first year the organs of plants are first studied, after which the minute anatomy is briefly considered. This is followed by a study of vegetable physiology.

The classification of plants, vegetable products and their uses, are other important topics of the course. During a part of the term a number of flowers are analyzed, and a few plants collected and prepared for the herbarium. Each student is required to provide himself with a pocket lens, under the direction of the professor in charge. Text-book, Gray's Lessons and Manual of Botany.

ADVANCED BOTANY.—In the winter term of the fourth year, the minute structure of plants, as well as vegetable physiology, is studied more fully. This includes an examination of the vegetable cell, its parts, modifications, and of tissue as presented in its various forms. This is made the basis for more detailed work on special subjects, among which may be mentioned germination, development of tissues, protoplasm, starch, parasitic fungi—especially the moulds, smuts, rusts, etc., and other cryptogamic plants. Each student has the use of a compound microscope, with the necessary tools and reagents. While this course is intended primarily to furnish a foundation for applied botany in horticulture and agriculture, it also affords, especially when taken a second term as an elective study, the advantages of systematic observation and original investigation. A good herbarium and a large greenhouse are drawn upon for material for study.

Chemistry.—Inorganic Chemistry, which occupies the fall term of the second year, includes a consideration of chemi al action, with nomenclature and formulas, and a careful study of the history, manufacture, physical, chemical and physiological properties, tests and uses of the various elements and their compounds. While teaching the facts as such, it is the aim to give prominence to those which show relations and illustrate principles. Especial attention is given to those substances having extended application in the arts. In addition to the usual lecture-room experiments, the student repeats, as far as practicable, all this experimental work at his private work-table. Text-book, Remsen's Introduction to the Study of Chemistry.

ORGANIC CHEMISTRY comprises a six-weeks course of lectures upon the preparation and properties of those organic substances most useful to man.

In Chemical Analysis, each student has his stand in the qualitative laboratory, completely furnished with apparatus and chemicals for his own use. His work includes the analysis of more or less complex mixtures of chemicals, minerals, ores, soils, mineral waters, well-waters, etc. The time given to this work is two hours daily for 11 weeks.

AGRICULTURAL CHEMISTRY.—This includes a thorough consideration of the application of chemical principles to the economy of the farm; the origin and formation of soils; the classification and composition of soils; the analysis of soils, and their adaptation to purposes of production; the composition and use of manures; composting; chemistry of farm operations—such as plowing, fallowing, draining; chemistry of plant-growth; the composition of grain and fodder plants, and their use and value as food; feeding; the chemistry of milk, butter, and cheese.

Mineralogy.—For six weeks in the second year, two hours a day are given to mineralogy. This includes the study of the properties, forms and uses of the principal minerals of the United States. Blowpipe analysis forms an important part of the course, each student being required to identify and name a large series of minerals. The pocket lens required in botany classes is used in this study. Text-book, Dana's Manual of Mineralogy and Petrography.

Geology.—This includes a general consideration of the earth's features, the constitution of rocks, and the arrangement of rock masses; the causes or origin of events in geological history; the order of succession in the strata of the earth's crust, and of the organisms that existed, and of the changes that were going on during the formation of each stratum. Prominence is given to facts having an economic bearing. The formation of soils and deposits of valuable minerals, especially in Kansas, are considered, and an excellent collection of geological specimens furnishes illustrations. LeConte's Compend of Geology is used as a text-book.

Anatomy and Physiology.—Human Anatomy is made the basis of a thorough study in physiology and hygiene. This includes such subjects as: Digestion and food; poisons and antidotes; circulation of the blood; respiration and ventilation; secretion and excretion; the nervous system; and the special senses. The course embraces, to some extent, comparative anatomy and physiology, affording preparation for the study of stock-breeding, zoölogy, and veterinary science. Martin's Human Body is used as a text-book. In connection with this study, dissecting is required.

Zoology.—In this study, Orton's Zoology has been adopted as the text-book. The intention of the course is to familiarize the student with the characters of some type in each class, and then, by comparative study, with the chief modifications of the type chosen. Especial attention is given to comparative anatomy and physiology. A good collection of animals, birds, reptiles, fishes, both mounted and alcoholic, a collection of invertebrates in alcohol, and a fine collection of conchological specimens, are among the means of illustration. Dissection and work with the microscope accompany the study.

Veterinary Science.—The 12-weeks course of lectures is adapted to wants of farmers and stockmen, and includes such topics as the fol-



KITCHEN LABORATORY.

lowing: Diseases of bone and their treatment; diseases of the circulatory, respiratory and digestive systems, their causes, treatment, and prevention; surgical operations, wounds, and abscesses; difficult parturition; shoeing and lameness; veterinary dentistry; horse judging and examination for soundness; the principal medicines used in treating sick animals, and how to give them.

Lectures are illustrated by use of animals, skeletons, charts, and diseased specimens. Whenever practicable, operations are performed before the class, and students are requested to assist.

Special Hygiene.—To young women of the third year a course of daily lectures is given upon the laws of life and health. The course extends over a period of 10 weeks, and covers questions pertaining to personal health, and the health of the household—such as food, air, exercise, clothing, temperature of rooms, and care of sick-room.

Household Economy.—A series of lectures to young women of the second year continues through a term of 12 weeks. These cover the subjects of marketing, the chemistry of cooking, order, neatness and beauty in housekeeping, and comfort of a family. The class spends one hour each day in the kitchen laboratory, and cooking is done by each student.

Physics and Meteorology.—Two terms' work gives an opportunity for experimental study of the laws of sound, heat, light, electricity, and magnetism; the constitution of the atmosphere; the measurement of temperature and humidity; atmospheric pressure. Text-book, Atkinson's Ganot's Physics. This course also includes a careful study of instruments and methods employed in taking meteorological observations.

Book-keeping and Commercial Law.—Beginning with a simple cash account, Book-keeping is developed through all the principles of single- and double-entry. Considerable time is given to those forms best adapted to farm and business life. Each student provides a full set of blanks, and keeps a regular set of books, in which accuracy of calculation and posting, and neatness of execution, are just as essential as correct understanding of the principles. Text-book, Mayhew's Standard Book-keeping. In connection with the term's work in Book-keeping, a practical course in Commercial Law is given, including contracts, farm rights, negotiable paper, sales, real estate, partnership, bailment, common carriers, and business forms.

Algebra.—One year is given to the study of Algebra. In the first term, arithmetical processes are briefly reviewed and generalized by the use of negative numbers. The student is made familiar with algebraic notation, the primary processes, factoring, fractions, and the simple equation. In the second term, the equation in its various forms and applications, and the theory of exponents, are made the subjects for study. The third term is given to ratio, proportion, series, logarithms,

and such other topics as are essential to success in every course in mathematics. Text-book, Wentworth's Higher Algebra.

Geometry.—In geometrical drawing of the first year, the student has already become familiar with geometrical forms, and the construction of figures representing them. Plane geometry is studied during the fall term of the second year. Half the winter term is then given to solid and spherical geometry. Throughout the course original demonstrations, and the solution of practical problems involving the theorems demonstrated, are required of the class.

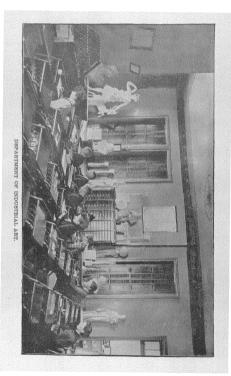
Trigonometry and Surveying.—All the essential principles of plane Trigonometry are carefully developed and thoroughly mastered. A short treatment of spherical trigonometry follows. Surveying includes: Theory, adjustment and use of instruments, platting, determination of areas, dividing land, U. S. Government surveys, triangulation, leveling, topographical surveying, and railroad surveying. Field practice with compass, transit, plane table and Y-level is required. A topographical map, the data for which are gathered during the fall term, is drawn by each student during the winter term. Text-book, Wentworth's Trigonometry and Surveying.

Mechanics and Engineering.—A careful consideration of the laws of motion and force, as exhibited in machines and various phenomena of nature, occupies a single term. Another term is given to lectures in elementary, mechanical and civil engineering, and to the study of proper materials for buildings, their construction and durability; forms of roofs and bridges; care and use of machinery; and roads and road-making. Drafting is an essential feature of the work. Haswell's Engineer's Hand-book is used in connection with lectures in Engineering.

Drawing.—This study is required in four terms, of which two are in the first, one in the second, and one in the third year.

First Term.—Daily lessons for 14 weeks. Definition and mensuration of geometrical magnitudes, construction of perpendiculars, parallels, angles, and polygons, the circle and its secant lines, the ellipse, the ovoid, the oval, the parabola, the hyperbola, and various geometrical ornaments; use of drawing board, T-square, and water-colors; conventional representation of building materials. The College furnishes drawing board, T-square, triangle, and water-colors, but each student is required to have a drawing pen and a pair of compasses with attachments.

Second Term.—Free-hand Drawing three hours a week for 12 weeks. The first half of the term is devoted to the study of principles of, and practice in, surface designing, after which drawing from the object is taken up. The models used are geometrical solids, and objects of utility and beauty whose forms bear close relationship to geometrical types. The students are led to recognize the facts, relations and principles involved in the apparent form of the object, to note the distri-



bution of light, shade, shadow, and the reflection on the same, and deduce the general principles which the observation and comparison of these appearances are found to establish. Walters's Free-hand Drawing Books 1 and 2 are used as text-books. Lectures on color, principles of design and history of ornamentation are occasionally given.

Third Term.—Mechanical Drawing, six weeks. Orthographic and oblique projection of the straight line and the circle; intersection of geometrical solids; construction and development of helices; principles of isometrical projection; principles of shades and shadows. Books 3 and 4 of Morse's Mechanical Drawing are used as text-books.

Fourth Term.—Mechanical Drawing four times a week for 10 weeks. Half of this time is given to architectural and machine drafting, and half to the study of linear perspective, comprising principles of parallel, angular and oblique perspective; the perspectives of vertical and horizontal cylinders, cylindric perspective, and perspective corrections; intersections of curved and plain surfaces in perspective; shadows in perspective; shaded perspectives. Books 5 and 6 of Morse's Mechanical Drawing are used as text-books.

During the winter term of the third year, each student is required to draw, color, ink and letter a map delineating the surveys made during the fall term.

Students who show special aptitude are encouraged to take Drawing as a fourth study during any part of the course, and given every opportunity to fit themselves for the drafting office or for special art schools. The instruction includes an extended course in free-hand drawing, shading, coloring, architectural and mechanical drawing, supplemented by a course of reading on art topics.

The graphic work of the different classes and special students is retained by the department for exhibition during Commencement, after which it is returned.

English Language and Literature.—Grammar is passed upon entrance, but the fall term of the first year is given to study of the origin and growth of the language, the analysis of sentence-making, and the discussion of idioms, difficult constructions, and parallel expressions, together with such contraction, transposition and transformation of sentences as will aid in securing variety in expression. The course will be essentially one of higher analysis. The winter term is given to the study and practice of composition. The spring term is given to English structure. Under this is included a careful study of words and their elements—roots, prefixes, and suffixes. The most fruitful primitives from the Saxon, Latin and Greek are learned, and also the laws governing the formation of derivatives. Lectures are given on the history and changes of words, and daily exercises are intended to teach careful discrimination in their use.

Third Year.—One term is given to the study of higher rhetoric, embracing the principles of clear explanation and convincing argument, as well as the outlines of sound criticism. This is followed by a term

spent in the history of the English Language and Literature, with abundant illustrations from the best authors.

Students are led in this way to appreciate the power of our mother tongue, and at the same time to gain some acquaintance with the best thought of the world. Students are encouraged and directed in the use of the College library, and are under constant oversight in the expression of their thoughts in writing. Each class meets once a week for instruction and practice in elocution and composition. Original declamations, delivered before the students and Faculty, make a part of the drill in the higher classes.

In the course for young women, the first term of the fourth year gives training in the elements of criticism and good taste by a study of famous works in English and American literature.

Text-Books.—Swinton's Word Analysis, Welch's Composition, Genung's Rhetoric, Kellogg's English Literature.

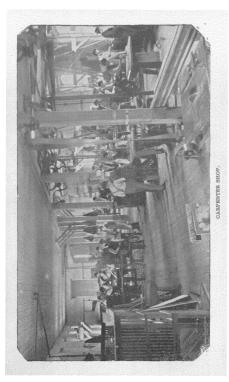
History and Constitutional Law.—General History is studied during the fall term of the third year. The text-book, Sheldon's Studies in General History, is supplemented by lectures on the progress of civilization, and the philosophy of history. Considerable attention is given to the various forms of government. The chief object of the course is to teach the student how to study History, and he is constantly urged, therefore, to form his own conclusions from the facts presented.

The winter term of the third year is given to constitutional history and civil government. Every effort is made to avoid partisanship, and the students are encouraged to express their opinions freely. Johnson's The United States and Fiske's Civil Government are used as textbooks, but considerable additional matter is given in lectures and much individual work required.

Political Economy.—The study of Political Economy, in a full term of the fourth year, gives a fair presentation of subjects connected with production, distribution and consumption of wealth. While the instruction is given by lectures, each student is expected to provide himself with some standard text-book for daily reference. Pains is taken to compare conflicting views, and point out sources of information on all sides of vexed questions, without bias or prejudice. Each student is required to present at some time during the term an original paper upon some topic assigned by the instructor.

Logic and Philosophy.—The art of reasoning correctly is aided by a study of systematic Logic, both deductive and inductive. Special prominence is given to methods for exact observation and experiment, and correct principles of classification. The previous researches and experience of the students are made to illustrate these principles. Textbook, Jevons-Hill, Elements of Logic.

A short course in psychology gives the general principles of intellectual and moral philosophy. Perception, understanding, memory, imagination, thought, feeling and volition are topics of explanation



and analysis. Theories of right and wrong and correct principles of action are made the means of a clear understanding of the nature of government in various forms, with special attention to individual rights and duties.

Industrial Arts.—The training in these departments is designed to be systematic and complete in each, so that the student following a single line diligently through the four-years course gains the essentials of a trade and a reasonable degree of skill. Those who wish only a general acquaintance with the arts can take shorter courses in several of them; but all are to select with a definite purpose. In the established course, young men are required to take the regular term in the carpenter shop, and on the farm and gardens, whatever the industrial chosen; young women are required to give one term to sewing, one to practice in the kitchen laboratory, and one in the dairy.

AGRICULTURE AND HORTICULTURE are required of young men as industrials during one term of the second year and one term of the third year. In these, practice is made to illustrate and emphasize the teaching, and cover essentially the same ground.

COKING.—During the winter term, the young women who have lectures on household economy are required to cook one hour each day. They are taught various methods of making the substantial articles of food, as well as allowed to spend some time on the dainty dishes. During the term, they have practice in waiting on the table and in serving guests, thus putting the lectures into immediate practice.

During the fall term, any students who have passed the study of household economy may take cooking as an industrial, in which canning fruits, making preserves, jellies, pickles, mince-meat, desserts, cake and fancy breads form the principal part of the work.

DATEVING.—During the spring term, daily instruction and practice in domestic dairying are given the young women of the second year by the instructor in household economy. Here the regular daily work is supplemented by a short course of lectures intended to explain the best practice in the arts of butter- and cheese-making, and to give the reasons therefor. The following topics cover, in the main, the instruction given the class: Influences affecting the quality and quantity of milk; butter-making; creameries; "deep" and "shallow" setting systems; packing and preserving butter; the household and factory systems of cheese-making.

CARPENTEY.—Wood-work is required of all young men during one term of the first year. In the first term's work a definite graded series of tasks is given in joining, work to dimensions, and simple problems in construction and turning, with the proper use and care of common bench tools, through which each student is advanced according to ability. Practice is given later in general wood-work, carpentry, cabinet-making, turning, and pattern-making; and the advanced students may have work suited to their chosen line, with special problems of construction, and special training in the use and care of fine tools, including

saw filing. All work during industrial hours is laid out by the Superintendent, and belongs to the shop, except that fourth-year students are allowed to work from drawings of their own upon articles for their own use or profit. All students may be allowed the use of the shop outside of the practice hours for work of their own, under direction of the Superintendent.

A general course in iron-work includes graded work in blacksmithing, the management of the forge and hammer, drawing out, welding, forming, etc.; graded work in founding, covering, bench and floor moulding in iron and brass; also graded work in machine-shop practice, including bench and machine tool work, filing, chipping, laying out work, boring, turning and planing the metals.

SEWING.—One term of Sewing is required before the completion of the first year of study. During this term the work is carefully laid out by the Superintendent in a series of lessons, graded to the capabilities of each student. To more advanced students all ordinary forms of Sewing with needle and machine are taught, and any student may furnish material, and work for her own advantage under direction of the Superintendent. Cutting and fitting by a straight-line system are taught, and the systems are furnished at wholesale rates. Fancy needle-work and knitting may be taken at certain stages of the course.

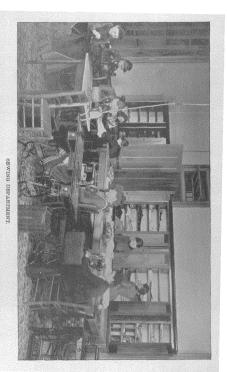
Printing.—Two courses are pursued in this art. In one the student is taught the use of the implements or tools used in typography; composition and imposition; correcting proof; technical terms; presses and their workings; and the general duties of a first-class workman. The other course of lessons embraces instruction in spelling, capitalization, syllabication, punctuation, proof-reading, and such other work as will make the student accurate and expert. Wilson's Punctuation is the text-book; but much of the instruction is oral—such as grows out of the every-day experience of the office.

Admirable drill is furnished by the *Industrialist* to all, but especially to those who take the full course. The printing which the departments of the College require gives to the advanced student a fair knowledge of the principles and practice of job-work.

Instrumental Music.—Provision is made for giving instruction upon the piano, organ, orchestral and band instruments. A full course upon the organ or piano extends over four years, including harmony and composition; but the students may take lessons for a single term if they choose. The College furnishes the pianos and organs for daily practice, but the instruction is paid for at the usual rate, as given under "Expenses." Music may be the industrial for young women, unless some other is required in the course. Young men may take Music in addition to their course, if able to keep up standing in classes.

Opportunity is given for students who are sufficiently advanced to join in the weekly rehearsals of the College orchestra on Wednesday, and the cadet band on Friday.

Vocal Music.—All students are furnished instruction in Vocal Mu-



sic free of charge, under the direction of the Faculty. Classes meet on Mondays and Wednesdays for advanced pupils, and for beginners on Tuesdays and Thursdays, at 1:30 p.m. The advanced class shares in the music of public exercises during the Commencement week. This study is taken up at the choice of the student, but regular attendance is required as at other classes until excuse is granted.

Arrangements for special voice culture may be made with the professor in charge, on reasonable terms.

Text-books.—Scansion and Song, Brown's Prismatic Charts, Hatton, Concone, Marchesi, with selections from the opera and oratorio.

Military Training.—The course of instruction is both practical and theoretical. The practical occupies two hours each week; the theoretical an average of one.

Theoretical: A course of 32 lectures is given to the second-year class. These are designed to show how an army is organized, equipped, and supplied; to explain some of the minor operations of war; to show the organization of the militia under the militia law of this State. Instruction is afforded, to such as desire it, in other military subjects.

Practical: Drills are held twice each week. Students who wish to learn have an opportunity to do so; they are not, however, allowed to enter for a period less than one term, and, in order to attain any reasonable degree of proficiency, new recruits should attend at least a whole year.

The practical course in infantry embraces small-arm target practice, and, as far as possible, all the movements prescribed by the "Drill Regulations of the United States Army" that are applicable to a battalion. Instruction in artillery includes, as far as practicable, such portions of the United States drill regulations as pertain to the formation of detachments, manual of the piece, mechanical maneuvers, and firing blank cartridges.

The College battalion is divided into companies, which are officered by students' appointed each term by the professor in charge, with the approval of the President.

Arms and accourrements are furnished by the United States Government, the students being required to keep such as they use in proper condition. Uniforms for use in drill are furnished by the College.

GENERAL EQUIPMENT.

GROUNDS AND BUILDINGS.

The College grounds and buildings, occupying an elevation at the western limits of the city of Manhattan, and facing towards the city, are beautiful in location. The grounds include an irregular plat in the midst of a fine farm, with orchard, vineyard and sample gardens attached, the whole being surrounded by durable stone walls. The grounds are tastefully laid out and extensively planted, according to the design of a professional landscape gardener, while well-graveled drives and good walks lead to the various buildings. All of these are of the famed Manhattan limestone, of simple but neat styles of architecture, and admirably suited to their use. All recitation rooms are excellently lighted and ventilated, and all are heated by steam or hot water. A complete system of sewerage has been provided. The buildings stand as indicated in the plat accompanying the following description:

College, 152x250 feet in extreme dimensions, arranged in three distinct structures, with connecting corridors. This building contains, in its two stories and basement, offices, reception-room, cloak-rooms, studies, chapel, library, reading-room, kitchen laboratory and dairy, sewing-room, society-rooms, and 12 class-rooms.

Chemical laboratory, one story, 26x90 and 46x75 feet of floor space, in form of a cross. It contains eight rooms, occupied by the Department of Chemistry and Mineralogy.

Mechanics' Hall, 39x103 feet, two stories, and 40x80 feet, one story, occupied by wood and iron shops, printing office, music rooms, iron foundry, lumber rooms, etc., in addition.

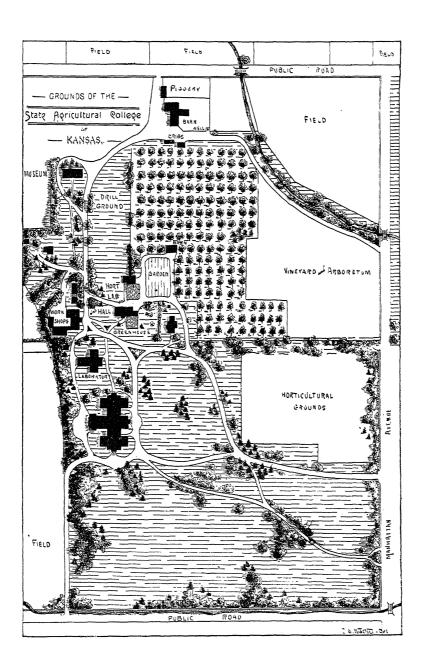
Horticultural Hall, 32x80 feet, one story and cellar, having cabinet room, class-room, and storage with greenhouse attached.

Horticultural and entomological laboratory, with propagating houses attached.

Two stone dwellings, occupied by the President and the Professor of Agriculture.

Museum Building, 46x96 feet, and two stories. This building, which has served many purposes, is now fitted for an armory, drill-room and veterinary laboratory below, and for class-room and laboratory for Department of Botany and Museum of Natural History above.

The farm barn is a double but connected stone structure, 50x75 feet and 48x96 feet, with an addition of sheds and experimental pens 40x50



feet. A basement, having stables for 75 head of cattle, silos, engineroom, and granaries, underlies the entire structure.

The horticultural barn is a stone building, containing store-room, granary, and stables for several horses.

The blacksmith shop, lumber house, implement house, piggery and various out-buildings are of wood.

LIBRARY.

The College Library consists of over 12,000 bound volumes and about 4,000 pamphlets, and is valued at \$21,000. It has been selected mainly with a view to supplementing the class-room instruction in the various departments. All the books are indexed in a card catalogue, so that the resources of the Library upon any subject may be readily learned. All students have free access to the book shelves, and may draw the books for home use, under simple and most liberal regulations.

The College subscribes for the leading literary, scientific and agricultural journals; while the principal daily and weekly papers of Kansas and many from other States are received in exchange for the College publications. All these are kept on file for the use of students and Faculty.

The College has been designated as the depository of United States public documents for the Fifth Congressional District of Kansas. About 1,000 volumes have already been received on this account.

The Library is open daily except on legal holidays. During the College terms, the Library hours are from 8 A.M. to 4 P.M., and during vacation from 9 A.M. to 12 M. The Librarian or the assistant is in constant attendance, at these hours, to assist those who use the books.

An approximate estimate of the number of books, including public reports and bound periodicals, by classes, is as follows:

Classes.	Vols.	Classes.	Vols.
Agriculture	1,350	History	550
Horticulture	500	Biography	450
Mechanics and engineering	425	Geography and travels	300
Mathematics and astronomy	250	Dictionaries and cyclopedias	175
Physics and meteorology	325	Philology	100
Chemistry and mineralogy	300	Education	300
Geology	400	Law	80
Botany	400	Administrative reports	540
Zoölogy	300	Public documents on deposit	920
Entomology	125	Fiction, including juveniles	240
Physiology and sanitary science	250	Essays and literary criticism	300
General science, proceedings, etc	500	Poetry	100
Military science	150	Logic and philosophy	200
Domestic science	75	Religion and morals	
Political science	325	Fine arts	
Bound magazines	1,250	Miscellaneous	

MEANS OF ILLUSTRATION.

AGRICULTURE.—One hundred and eighty-five acres of land used for farm purposes, with hundreds of plats under experiment in grain,

grasses, and forage crops; and illustrating various methods of culture and rotation.

A barn 50x75 feet, expressly arranged for experimental uses; and connected with it a general-purpose barn, 48x96 feet, for grain, hay, horses, and cattle. Both buildings are of stone, and are provided with steam power, and equipped with improved machinery for shelling, grinding, threshing, cutting for the silo, and steaming.

Two piggeries—one of 10 pens, for experimental uses, and one of 6 pens, with separate yards, for general purposes.

An implement house, 22x50 feet, of two stories, and corn cribs.

Short-horn, Aberdeen-Angus, Hereford, Holstein-Friesian and Jersey cattle; Berkshire and Poland-China swine; and Shropshire sheep.

Farm implements of improved patterns.

Collections of grains, grasses, and forage plants.

Buildings, stock and equipments are valued at \$26,000.

HORTICULTURE AND ENTOMOLOGY.—Orchards containing 100 varieties of apples, 30 of peaches, 30 of pears, 20 of plums, 30 of cherries, and 5 of apricots.

Small-fruit garden, with 200 varieties of small fruit, including black-berries, raspberries, gooseberries, currants, and strawberries; and vine-yard, with 160 varieties of grapes.

Forest plantation of 12 acres, containing 20 varieties of from 1 to 20 years' growth.

Ornamental grounds, set with a variety of evergreens and deciduous trees. Sample rows, containing about 150 varieties of ornamental and useful shrubs and trees, labeled.

Vegetable garden, with hot-beds and cold-frames, and experimental beds. Practice rows for students' budding, grafting, cultivating, and pruning.

Two well-planned and furnished greenhouses of three rooms each, stocked with a collection of native and exotic plants.

Museum, containing a collection of woods from American forests, and a large series of specimens in economic and general entomology.

Value of property, exclusive of orchards and grounds, \$13,000.

CHEMISTRY AND MINERALOGY.—Eight rooms, fitted with tables and apparatus for a class of 80 students in qualitative analysis, 16 in quantitative analysis, including necessary facilities for assaying, with a mineralogical collection and general illustrative apparatus. Value, exclusive of building, \$8,000.

Geology, Zoölogy, and Veterinary Science.—A general museum, well fitted with cases containing valuable collections of mounted Kansas mammals and birds, with mounted skeletons of wild and domestic animals. The largest collection of Kansas fishes and mollusks in the State. Kansas reptiles and batrachians, salt-water fishes and invertebrates, in alcohol. Collections of mound-builders' and Indian relics. Kansas fossils and rocks, typical of the geological ages found in the State.

In Veterinary Science: A laboratory fitted with apparatus and reagents, for the study of disease. A collection of charts, models, and anatomical preparations, illustrating healthy and diseased structure. Value, including general museum, \$4,500.

BOTANY.—A general herbarium, consisting of a large collection of plants of the United States and other countries; a Kansas herbarium, containing specimens illustrating the distribution and variation of plants throughout the State; also 28 compound microscopes, four dissecting microscopes, tools, reagents, etc. Valued at \$3,000.

Drawing.—Models, plaster-casts, patterns, charts, easels, and implements. Valued at \$1,400.

Physics.—Complete physical apparatus for general instruction in physics, and meteorological instruments, including a self-recording anemometer. Among the apparatus for special work may be mentioned, Coulomb's torsion balance, Kohlrausch differential galvanometer with reading telescope, Deprez-Carpentier ammeter, Ayrton and Perry's voltmeter, Thompson's potential and current galvanometers, Carhart-Clark standard cell, standard legal ohm, Wheatstone's meter bridge, Edelmann dynamo. The value of the whole is \$4,500.

MATHEMATICS AND SURVEYING.—Transits, plane-table, compasses, levels, chains, models, etc. Valued at \$1,250.

MECHANICS AND ENGINEERING.—Carpenter shop, with separate benches and tools for 45 students in each class, besides lathes, mortising machine, circular saws, band saws, planer, friezer, boring machine, grinder, and general chest of tools for fine work. Power furnished by a 10-horse-power Atlas engine.

Shops for iron-work contain blacksmith forges to accommodate at least 16; brass foundry of 12 benches and large furnace for brass; iron foundry with two-ton cupola; machine shop equipped for 30 students, including, besides hand tools, lathes, drills, planer, etc.

Inventory of material and apparatus in both shops, \$8,300.

KITCHEN LABORATORY, with ranges, cooking utensils, dining-room furnishings, dairy furniture. Valued at \$600.

PRINTING.—Office with 30 pairs of cases, large fonts of 6-point, 8-point, 10-point and 11-point Roman type; a good assortment of job type and brass rule; a Babcock cylinder press, with steam power, a new Liberty quarter-medium job press, a Gordon eighth-medium job press; a mitering machine, a rule-curving machine, and a paper cutter. Value of equipment, \$4,300.

SEWING ROOMS, with eight machines, models, patterns, and cases; worth \$600.

Music Rooms, with five pianos, four organs, other instruments, and nine charts; valued at \$2,000.

ARMORY, containing 150 stands of arms (breech-loading cadet rifles, caliber .45), with accourrements; two three-inch rifled guns; also swords, uniforms, etc. Value, exclusive of arms, \$1,000.



PRINTING DEPARTMENT,

GENERAL INFORMATION.

EXAMINATIONS.

Examinations for admission are held at the beginning of each term, as laid down in the calendar of the College year. Applicants, to enter at any time during the term, shall have special examinations. These examinations are chiefly written, and a standard of 70 per cent. is required to pass any study.

Examinations in the course are held as arranged by the Faculty. The results of these examinations are marked on a scale of 100, and combined with the average of the preceding daily exercise upon the same scale into a grade for report to the Secretary. But any student not present at three-fourths, at least, of the class exercises, receives, at such time as the teacher may name, a more extensive examination than the general one; and this examination alone decides the grade.

Averages of grades in the register are made by giving the final term grade a value of two-thirds and previous grades a value of one-third. After each term examination during the first year of attendance, a report of advancement is made to parents; and any student, upon leaving College at the close of a term, may receive a certificate of standing.

The final grade and the term average must be at least 70 for passing any study; and any student who fails to pass in two studies of the course may drop back a year or withdraw from College.

After completing the studies of the first year, students are allowed special examinations only upon recommendation of the professor in charge, and by permission of the Faculty. Permission for examination in studies not pursued with a class must be obtained at least two months before the examination is held. All such examinations are held under the immediate supervision of the professor in charge, and are thorough and exhaustive.

Students deficient in entrance studies must make good such deficiencies before entering upon the work of the second year.

TERMS OF ADMISSION.

Applicants for admission at the beginning of the College year must be at least fourteen years of age, and able to pass a satisfactory examination in reading, spelling, writing, arithmetic, geography, English grammar, and United States history. Those applying later in the year must show sufficient advancement to enter the classes already in progress. Every effort should be made to begin with the first day of a term, in order to advance with the classes from the first. The following diplomas and certificates will be received in lieu of entrance examinations:

- 1st. Diplomas received on the completion of a county course of study which has been approved by the Faculty, when properly signed by the county superintendent.
- 2d. Certificates of passing the grammar grade in any city school with a course of study approved by the Faculty, when properly signed by the city superintendent.
- 3d. Kansas teachers' certificates issued by the county board of examiners, showing that the above-named studies have been passed with a grade of at least 70 per cent.

The Faculty have approved the courses of study adopted by the following counties and cities; others may be submitted for approval at any time:

ume:						
	COUNTIES.					
Allen,	Douglas,	Linn,	Reno,			
Anderson,	Elk,	Marshall,	Rice,			
Barber,	Ellis,	Marion,	Riley,			
Brown,	Geary,	McPherson,	Rooks,			
Bourbon,	Greenwood,	Mitchell,	Rush,			
Butler,	Harper,	Montgomery,	Russell,			
Chase,	Harvey,	Nemaha,	Shawnee,			
Cherokee,	Jackson,	Neosho,	Sumner,			
Clay,	Jefferson,	Osage,	Wabaunsee,			
Cloud,	Jewell,	Osborne.	Washington,			
Cowley,	Johnson,	Ottawa,	Wilson,			
Dickinson,	Kingman,	Pottawatomie,	Woodson,			
Doniphan,	Leavenworth,	Republic,	Wyandotte.			
		CITIES.				
Abilene,	Columbus,	Junction City,	Osborne,			
Anthony,	Concordia,	Kanapolis,	Oswego,			
Arkansas City,	El Dorado,	Kansas City,	Ottawa,			
Atchison,	Emporia,	Kingman,	Paola,			
Augusta,	Eureka,	Larned,	Parsons,			
Beloit,	Fort Scott,	Lawrence,	Russell,			
Burlington,	Gaylord,	Leavenworth,	Salina,			
Caldwell,	Girard,	Lyons,	Seneca,			
Chanute,	Great Bend,	Manhattan,	Solomon City,			
Cherryvale,	Hiawatha,	McPherson,	Topeka,			
Chetopa,	Holton,	Minneapolis,	Washington,			
Clay Center,	Horton,	Newton,	Wellington,			
Clifton,	Hutchinson,	Olathe,	Winfield,			
Coffeyville,	Independence,	Osage City,	Wichita.			

Applicants of mature age who, for lack of advantages, are unable to pass the full examination, may be received on special conditions.

Applicants for advanced standing in the course must pass examination in all the previous studies of the class to be entered; but, if they
have pursued such studies in other institutions of similar rank, they
may receive credit for their standing in those institutions, upon presenting a certificate from the proper officer, showing that their course has
been equivalent to that given here.

The questions here presented may serve as samples of the examinations for admission:

GRAMMAR.

- 1. Define grammar, analysis, parts of speech, parsing.
- 2. Name and define the elements of the sentence.
- 3. Classify sentences, and write a sentence of each class.
- 4. Define infinitives, participles. Give an example of each.
- 5. What is an adjective clause? An adverb clause? A noun clause? Show by sentences the use of each.
- 6. Give the subdivisions and the modifications, or properties, of the pronoun.
- 7. Name and illustrate the constructions in which a noun is in the nominative case. In the objective case.
 - 8. Explain agreement of the verb, and give sentences to illustrate.
- 9. Analyze or diagram: "When I reflect upon the influence of a mother, of a pure, educated, Christian woman, I no longer doubt."
- 10. Parse italicised words:

"Burned Marmion's swarthy cheek like fire, And shook his very frame for ire."

ARITHMETIC.

- 1. Find the L. C. M. and G. C. D. of 724 and 896.
- 2. Find the cost of 8,462 lbs. of hay, at \$9.50 a ton.
- 3. A field containing 18 acres is 80 rods long. Find the cost of fencing it at \$1.25 a rod.
- 4. A merchant sells a wagon for \$161, and gains 15 per cent. How much did he gain?
- 5. If copper is mixed with 20 per cent. of its weight of nickel, what per cent. of the mixture is nickel?
- 6. Find the interest on \$960 from March 5, 1882, to September 25, 1888, at 7 per cent.
- 7. Which is the better, to buy flour at \$8 per barrel on 6 months' credit, or at \$7.50 cash, money being worth 6 per cent.?
- 8. Which is the better investment, 5-per-cent. stock at 75, or 6-per-cent. stock at 80?
 - 9. Find the cube root of .75 to three figures.
- 10. What will be the cost of a 90-day draft for \$5,000, if exchange is $\frac{1}{4}$ per cent. discount, and money worth 6 per cent.?

GEOGRAPHY.

- 1. What is latitude? Longitude? A prime meridian? Explain the cause of winter and summer.
- 2. Name the grand divisions of the earth, and after each write the name of its principal mountain system and largest river.
- 3. Name and locate five lakes, five gulfs or bays, five rivers, of North America.
- 4. Draw a map of your native State, showing rivers, railroads, and important cities. What are its chief products?

- 5. Name, in their order, the States that border on the Atlantic Ocean, and give the capital of each.
- 6. What kind of a government has Mexico? Who are its people? What are its exports?
- 7. Locate the countries of South America. Give the principal exports of Argentine Republic, Brazil, and the West Indies.
- 8. Name eight countries of Europe, and give their capitals and forms of government. What causes the great emigration from Europe to America?
- 9. Bound India, the Chinese Empire, and Japan. Locate Egypt and Madagascar.
- 10. Trace the course of a vessel around the world, starting from New York and touching at five great ports.

UNITED STATES HISTORY.

- 1. Give a brief account of the first settlements in Virginia, New York, and Pennsylvania.
- 2. Name the wars in which colonies were engaged, and state briefly the causes and results of each.
- 3. (a) Describe three battles of the Revolutionary War. (b) What aid did France give to the United States during that war?
- 4. (a) Give the chief defects of the articles of confederation. (b) Give a history of the making of the constitution.
- 5. Causes of the War of 1812? Describe Perry's battle on Lake Erie, and Jackson's battle of New Orleans.
- 6. Causes of the Mexican War? Date and terms of treaty of peace with Mexico.
- 7. Chief events of Jefferson's, Monroe's and Buchanan's administrations.
- 8. Name, describe and give consequences of one battle in each year of the Civil War.
- 9. Give date of five important inventions, and state some of the effects of each.
- 10. Name five important events since the Civil War, and state why you consider each important.

GENERAL DUTIES AND PRIVILEGES.

General good conduct, such as becomes men and women anywhere, is expected of all. Every student is encouraged in the formation of sound character, by both precept and example, and expected, "upon honor," to maintain a good repute. Failure to do so is met with prompt dismissal. No other rules of personal conduct are announced.

Classes are in session every week-day except Saturdays, and no student may be absent without excuse. Students enrolled in any term cannot honorably leave the College before the close of the term, unless excused beforehand by the Faculty. A full and permanent record of attendance, scholarship and deportment shows to each student his standing in the College.

Chapel exercises occupy fifteen minutes before the meeting of classes each morning, and unnecessary absence from them is noted. On Sunday no services are held in the chapel, but students are urgently advised to attend the different churches of the city.

Every Friday, at 1:30 r.m., the whole body of students gather for a lecture from some member of the Faculty, or for the rhetorical exercises of the third- and fourth-year classes. Once a week all the classes meet, in their class-rooms, for exercises in elecution and correct expression.

There are four prosperous literary societies which meet weekly, in rooms set apart for their use. The Alpha Beta, open to both sexes, and the Ionian, for ladies, meet Friday afternoon. The Webster and the Hamilton admit to membership gentlemen only, and meet on Saturday evening.

The Scientific Club, composed of members of the Faculty and students, meets in the chemical laboratory on the fourth Friday evening of each month.

Branches of the College Y. M. C. A. and Y. W. C. A. hold weekly meetings at the College, and a union meeting on the first Friday evening of each month.

Once in each term the College Hall is opened for a social gathering of Faculty and students, in which music, literary exercises, and friendly greeting find place.

Public lectures by prominent men of the State are provided from time to time, as opportunity offers. All are free.

LABOR AND EARNINGS.

Every encouragement is given to habits of daily manual labor during the College course. Only one hour of daily practice in the industrial departments is required; but students are encouraged to make use of other opportunities for adding to their ability and means.

All labor at the College is under the direction of the superintendents of the departments, and offers opportunities for increasing skill and efficiency. In regular weekly statements, the students are required to observe business forms and principles, showing from their daily account when and where the work was performed.

The shops and offices are opened afternoons and Saturdays for the accommodation of skilled students in work for their own advantage. Everywhere the student who works wins respect; and it is a matter of pride to earn one's way as far as possible.

The labor of the students in the industrial departments is principally a part of their education, and is not paid for unless the student is employed upon work for the profit of the College. Students are so employed upon the farm, in the gardens or the shops, and about the buildings. The labor is paid for at rates varying with services rendered, from 8 to 10 cents an hour. The superintendents strive to adjust their work to the necessities of students and give them the preference in all tasks suitable for their employment. So far as practi-

cable, the work of the shops and offices is turned to account for their benefit; and the increasing extent of the grounds and sample gardens brings more of such labor. The monthly pay-roll for the past year ranges from \$250 to \$400.

Many students obtain work in the city or upon neighboring farms, and so pay part of their expenses. In these ways a few students are able to earn their way through College. The amount so earned will vary according to the tact and zeal of the student. The majority must expect to provide by earnings outside of term-time, or from other sources, for the larger part of their expenses. The long summer vacation of three months offers opportunity for farm or other remunerative labor; and no one need despair of gaining an education if he has the ability to use his chances well.

EXPENSES.

Tuition is free, and no general fee for incidental or contingent expenses is charged.

Lessons in instrumental music—two a week—are from \$10 to \$14 a term, according to its length; one a week, \$6 to \$8.40. In classes of two or more at a less rate. One-half is to be paid to the instructor in charge with the first lesson; the other half at the middle of the term.

The cost of text-books at the book stores is, for the first year, about \$4 a term; for the second year, \$2.75 a term; for the third year, \$7 a term; and for the fourth year, \$5.50 a term.

The expenses for apparatus and tools to each student during the course are as follows: Drawing, \$3.50; microscope for botany and entomology, \$1.50; case, pins, etc., for entomology, \$2.25. The total expense for these articles during the four years is less than \$10.

Board and washing are not furnished by the College. Board, with furnished rooms, can be procured in private families at from \$2.75 to \$4 per week, or table board in student clubs from \$1.50 to \$2.25 per week. Some students board themselves at even less cost; and rooms for the purpose can be obtained at a rent of from \$1 to \$3.50 a month-Washing costs from 50c. to \$1 a dozen pieces.

Ordinary expenditures, aside from clothing and traveling expenses, range from \$100 to \$200 a year.

BUSINESS DIRECTIONS.

Loans upon school-district bonds are to be obtained from the Loan Commissioner.

Bills against the College should be presented monthly, and, when audited, are paid at the office of the Treasurer, in Manhattan.

All payments of principal and interest on account of bonds or land contracts must be made to the State Treasurer, at Topeka. Applications for extension of time on land contracts should be sent to the Secretary of the Board of Regents, at Manhattan.

The Industrialist may be addressed through Pres. Geo. T. Fairchild,

managing editor. Subscriptions are received by Supt. J. S. C. Thompson.

Donations for the library should be sent to the Librarian; donations for the museum to the chairman of the Committee on Museums.

Questions, scientific or practical, concerning the different departments of study or work, may be addressed to the several professors and superintendents.

General information concerning the College and its work, studies, examinations, grades, boarding-places, etc., may be obtained at the office of the President, or by addressing the Secretary.

Applications for farmers' institutes should be addressed, as early in the season as possible, to the President.

The Experiment Station should be addressed through the Secretary of the Council.

GRADUATES.

[This list is made from the best data obtainable. A favor will be conferred by notifying the College of any errors or changes.]

1867.

HENRY L. DENISON, A. M., Galveston, Tex. Secretary of Gulf Improvement Company.

Belle M. Haines Pond, A. M., Topeka, Kas. Housewife.

EMMA L. HAINES Bowen, A. M., Manhattan, Kas. Housewife.

John J. Points, A. M., Omaha, Neb. Lawyer.

MARTHA A. WHITE Abbott, A. M., Chicago, Ill. Housewife.

1871.

EMILY M. CAMPBELL Robinson, A. B. Died in 1877.

ELLA F. DENISON Whedon, A. B., Lincoln, Neb. Housewife.

LUELLA M. HOUSTON, A. B., Concordia, Kas. Milliner and dressmaker.

CHARLES O. WHEDON, B. Sc., Lincoln, Neb. Lawyer.

KATE E. WHITE Turley, A. B., Chicago, Ill. Housewife.

1872.

THEOPHANIA M. HAINES Huntington, A. B. Died in 1880.

Albert Todd, A. M., Fort Sheridan, Ill. Lieutenant First U.S. Artillery.

S. Wendell Williston, A. M., M. D., Lawrence, Kas. Professor of Paleontology and Director of the State University Geological Survey.

1873.

ELIZA Z. DAVIS Stringfield, A.B., Pomona, Cal. Housewife. SAM KIMBLE, A.B., Manhattan, Kas. Lawyer.

1874.

HARRY A. BROUS, A. M., M. D., Philadelphia, Pa. Physician.

EDGAR F. CLARK, A. B., Ellsworth, Kas. Lawyer.

JOHN E. DAVIS, B. Sc., D. D. S., Oakland, Cal. Dentist.

WILLIAM D. GILBERT, A.B., Atchison, Kas. Lawyer.

A. Judson White, A.B., Chicago, Ill. Minister.

1875.

REUBEN E. LOFINCK, B. Sc., Manhattan, Kas. Merchant. ALICE E. STEWART *Points*, A. M., Omaha, Neb. Housewife.

1876.

GEORGE A. GALE, A. B., Lake Worth, Fla. Fruit-grower.

ELLA M. GALE *Kedzie*, A. B., Lansing, Mich. Teacher of art.

NELLIE SAWYER *Kedzie*, M. Sc., Manhattan, Kas. Professor of Household Economy and Hygiene in Kansas State Agricultural College.

CARRIE M. KIMBALL, A. B., Garden Grove, Cal. Art instructor.

MINERVA E. WHITMAN *Heiser*, A. B., Lyndon, Kas. Housewife.

1877.

ELLA S. CHILD, B.Sc., Manhattan, Kas. Teacher.

GEORGE H. FAILYER, M.Sc., Manhattan, Kas. Professor of Chemistry in Kansas State Agricultural College.

John S. Griffing, M.Sc., Topeka, Kas. Merchant.

WALTER C. HOWARD, B.Sc., Winnebago, Ill. Minister.

FREDERICK O. HOYT, B.Sc. Died in 1884.

LOUIS E. HUMPHREY, B.Sc., Chapman, Kas. Druggist.

JAMES F. LA TOURETTE, B.Sc., Wagon Mound, N.M. Stock-raiser.

MARION F. LEASURE, B.Sc., La Cygne, Kas. Lawyer.

WILLIAM ULRICH, M.Sc., Manhattan, Kas. Contractor and builder.

1878

ALBERT N. GODFREY, M. Sc., Madison, Kas. Farmer and fruit-grower. CHARLES S. McConnell, B. Sc. Printer. GEO. S. Platt, B. Sc. Died in 1878.

Amos E. Wilson, B. Sc., McPherson, Kas. National bank examiner.

1879.

ARTHUR T. BLAIN, B.Sc., Duarte, Cal. Nurseryman.

ETTA CAMPBELL Blain, B.Sc., Duarte, Cal. Housewife.

WILMER K. ECKMAN, B.Sc., Atchison, Kas. Lumber dealer.

CORVIN J. REED, B.Sc., St. Clere, Kas. Farmer.

HARRY C. RUSHMORE, B.Sc., Fort Payne, Ala. Hardware dealer.

WM. H. SIKES, B.Sc., Leonardville, Kas. Merchant and grain dealer.

LEWIS A. SALTER, B.Sc., Argonia, Kas. Merchant.

ELLA VINCENT McCormick, B.Sc., Clay Center, Kas. Book-keeper.

CLARENCE E. WOOD, B.Sc., A.B., Denver, Colo. Printer.

1880.

Augustine Beacham, B.Sc., Seattle, Wash. Principal of schools.

Lizzie R. Cox Kregar, B.Sc., Milford, Kas. Housewife.

Emma Hoyt Turner, B.Sc., St. Paul, Minn. Housewife.

Emma Knostman Huse, B.Sc., Arkansas City, Kas. Housewife.

Grace Parker Perry, B.Sc., Kiowa, Kas. Housewife.

Noble A. Richardson, B.Sc., San Bernardino, Cal. Superintendent of city schools.

MARIA E. SICKELS Davis, B.Sc., Chicago, Ill. Housewife.

1881.

FLORA DONALDSON Reed, B.Sc., St. Clere, Kas. Housewife.
ULYSSES G. HOUSTON, B.Sc., Concordia, Kas. Inventor.
FLETCHER M. JEFFREY, B.Sc., Escondido, Cal. Lawyer.
WILLIAM J. JEFFREY, B.Sc., San Diego, Cal. Agent.
DARWIN S. LEACH, B.Sc., Georgetown, New Mexico. Superintendent of city schools.
WILLIAM J. LIGHTFOOT, B.Sc., Topeka, Kas. Civil engineer.
DALINDA MASON Cotey, B. Sc., Manhattan, Kas. Housewife.

WIRT S. MYERS, B. Sc., Tampa, Florida. Furniture manufacturer.

J. Chester Allen, B.Sc. Died in 1885.

Ida Cranford Sloan, B.Sc., Shasta county, Cal. Housewife.

Edward V. Cripps, B.Sc., Boston, Mass. Teacher of elocution.

Warren Knaus, M.Sc., McPherson, Kas. Editor and entomologist.

Mattie E. Mails Coons, B.Sc., Manhattan, Kas. Housewife.

Allie S. Peckham Cordry, B.Sc., Belleville, Kas. Housewife.

Belle Selby Curtiss, B.Sc., Louisville, Ky. Housewife.

Bueton L. Short, B.Sc., Kansas City, Kas. Clerk for register of deeds.

John A. Sloan, B.Sc., Shasta county, Cal. Farmer and nurseryman.

1883.

James W. Berry, B. Sc., Jewell City, Kas. Farmer, contractor, and builder.

Mary C. Bower, B. Sc., Manhattan, Kas. Clerk.

Lewis W. Call, B.Sc., LL.M., Washington, D. C. Clerk in Attorney General's office.

EMMA E. GLOSSOP, B. Sc., Manhattan, Kas. Teacher.

WILLIAM J. GRIFFING, B.Sc., Manhattan, Kas. Farmer and fruit-grower.

PHEEE E. HAINES, M. Sc., Las Cruces, N. M. Professor of Industrial Art in Agricultural College.

HORTENSE L. HOUSTON, B. Sc., Concordia, Kas. Music teacher.

JACOB LUND, M. Sc. Mechanical engineer.

KATIE I. MEGUIRE Sheldon, B. Sc., Riverside, Cal. Housewife.

J. Dana Needham, B. Sc., Lane, Kas. Merchant.

MILAN T. WARD, B. Sc., M. D., Orion, Ill. Physician.

Julius T. Willard, M.Sc., Manhattan, Kas. Assistant professor of chemistry, Kansas State Agricultural College.

1884.

EMMETT S. Andress, B. Sc., Lakin, Kas. Farmer and stock-raiser.
Florence J. Brous, B. Sc., Kansas City, Kas. Teacher.
Bartholomew Buchli, M. Sc., V. S. D., Paxico, Kas. Veterinary surgeon.

JOHN H. CALVIN, B. Sc., LL. B., Topeka, Kas. Lawyer.

Wm. A. Corey, B. Sc., Salt Lake City, Utah. Teacher and editor.

HENRY M. COTTRELL, M. Sc., Rhinecliff, N. Y. Superintendent of dairy farm.

CARRIE F. DONALDSON Brown, B. Sc., Portland, Ore. Housewife.

FLORENCE A. DONALDSON, B. Sc. Died in August, 1888.

Frank W. Dunn, B.Sc., New Castle, Colo. Farmer and fruit-grower.

I. DAY GARDINER, B. Sc., Alma, Kas. Editor.

EDWIN H. KERN, B. Sc., Mankato, Kas. Civil engineer and farmer.

Marion M. Lewis, B. Sc., Nebraska City, Neb. Minister.

CHARLES L. MARLATT, M. Sc., Washington, D. C. Assistant in Entomological Division, U. S. Department of Agriculture.

LINCOLN H. NEISWENDER, B. Sc., Silver Lake, Kas. Farmer.

GEO. C. PECK, B. Sc., Junction City, Kas. Printer.

HATTIE L. PECK Berry, B. Sc., Jewell City, Kas. Housewife.

JOHN W. SHARTEL, B. Sc., Winfield, Kas. Lawyer.

1885

THOMAS BASSLER, B. Sc., Westgate, Kas. Teacher and nurseryman.

Albert Deitz, B. Sc., Kansas City, Mo. Merchant.

George E. Hopper, M. Sc., Manhattan, Kas. Contractor and builder.

FLORENCE F. HOUGH, B. Sc., Melrose, Iowa.

FRANK A. HUTTO, B. Sc., Stillwater, Ok. Lawyer.

ALLEN LEWIS, B. Sc., Topeka, Kas. Civil engineer.

Nellie J. Murphy, B. Sc., Idana, Kas. Teacher.

ARTHUR L. NOYES, B. Sc., Wabaunsee, Kas. Electrical engineer.

CLARENCE D. PRATT, B. Sc., Salt Lake City, Utah. Civil engineer.

ROLLIN R. REES, B. Sc., Minneapolis, Kas. Lawyer.

Frederick J. Rogers, M.Sc., Ithaca, N.Y. Assistant in physics, Cornell University.

DOROTHY E. C. SECREST Hungerford, B. Sc., Elgin, Tenn. Housewife.

Grace Wonsetler, B.Sc., Verbeck, Kas. Teacher.

Effie E. Woods Shartel, B. Sc., Winfield, Kas. Housewife.

1886.

LILLIE B. BRIDGEMAN, B. Sc., Berkeley, Cal. Student, State University. Louis P. Brous, B. Sc., Portland, Ore. Draughtsman and topographical engineer.

Paul H. Fairchild, B. Sc., M. D., Brooklyn, N. Y. Publisher of medical journals.

ABBOTT M. GREEN, B. Sc., Santa Barbara, Cal. Civil engineer and teacher. James G. Harbord, B. Sc., Fort Reno, Ok. Lieutenant, Sixth Infantry, U. S. army.

JOHN U. HIGINBOTHAM, B. Sc., Chicago, Ill. Cashier, wholesale house. MARIA C. HOPPER Getty, B. Sc., Downs, Kas. Housewife.

E. Ada Little, B. Sc., Manhattan, Kas. Assistant in sewing, and post-graduate student, State Agricultural College.

FRANK L. PARKER, B. Sc., Pueblo, Colo. Telegraph operator.

EDWARD H. PERRY, B. Sc., Topeka, Kas. Real-estate agent.

H. Augustus Platt, B.Sc., Coronado, Kas. Farmer.

ADA H. QUINBY Perry, B.Sc., Topeka, Kas. Housewife.

IDA H. QUINBY Gardiner, B.Sc., Alma, Kas. Housewife.

MINNIE REED, B.Sc., Manhattan, Kas. Post-graduate student, State Agricultural College.

DAVID G. ROBERTSON, B. Sc., Osborne, Kas. Lawyer.

EDWARD O. SISSON, B.Sc., Mound City, Kas. Superintendent of schools.

JOHN W. VAN DEVENTER, B. Sc., Denver, Colo. Editor.

GEORGE W. WATERS, B. Sc., Riley, Kas. Mail-route agent.

WILLIAM E. WHALEY, B. Sc., Chicago, Ill. Student of law, Northwestern University.

F. HENRIETTA WILLARD Calvin, B.Sc., Topeka, Kas. Housewife. John L. Wise, B.Sc., Smithboro, Ill. Merchant.

1887

EDGAR A. Allen, B.Sc., Chicago, Ill. Teacher and law student.

FRED. H. AVERY, B. Sc., Wakefield, Kas. Farmer and horse-breeder.

CLAUDE M. Breese, M.Sc., Manhattan, Kas. Assistant in chemistry, Kansas State Agricultural College.

John B. Brown, B. Sc., Nashville, Tenn. Observer, U.S. Signal Service.

Walter J. G. Burtis, B.Sc., Fredonia, Kas. Farmer and teacher.

MARK A. CARLETON, B. Sc., Manhattan. Assistant in botany, Experiment Station, Kansas State Agricultural College.

NELLIE E. COTTRELL Stiles, B.Sc., Pavilion, Kas. Housewife.

BERT R. ELLIOTT, B.Sc., Nederland, Colo. At work on a ranch.

FREDERICK B. ELLIOTT, B. Sc., Manhattan, Kas. Real-estate agent.

CLARA M. KEYES, B.Sc., Banner, Cal. Teacher.

FRED. G. KIMBALL, B. Sc., Manhattan, Kas. Carpenter and teacher.

FREDERICK A. MARLATT, B.Sc., Manhattan, Kas. Assistant in entomology, Experiment Station, Kansas State Agricultural College.

WILLIAM J. McLAUGHLIN, B. Sc., Bern, Kas. Superintendent of schools.

MARY E. Moses, B.Sc., Manhattan, Kas. At home.

CHARLES A. MURPHY, B.Sc., Argentine, Kas. Teacher.

ORLANDO G. PALMER, B.Sc., L.L.M., Washington, D. C. Lawyer.

Louis B. Parker, B.Sc. Died in June, 1889.

James E. Payne, B.Sc., West Point, Miss. Farmer.

SEWARD N. PECK, B.Sc., Topeka. Mechanic.

George N. Thompson, B.Sc., Belmond, Iowa. Carpenter.

WILLIS M. WRIGHT, B. Sc., Lake Arthur, La. Farmer.

1888.

GRANT ARNOLD, B.Sc., Toledo, Wash. Teacher.

BERTHA H. BACHELLER, M.Sc., Sterling, Kas. Teacher.

CLEMENT G. CLARKE, B. Sc., New Haven, Conn. Student in Yale University.

ALEXANDER C. COBB, B. Sc., Wagoner, Ind. Ter. Farmer and carpenter.

MATTIE COBB Clarke, B. Sc., New Haven, Conn. Housewife.

Minnie H. Cowell, B.Sc., Hempstead Road, London, Eng. Hospital nurse.

LYMAN H. DIXON, B. Sc., Bent Cañon, Colo. Draughtsman.

DAVID G. FAIRCHILD, M. Sc., Washington, D. C. Assistant in Division of Vegetable Pathology, U.S. Department of Agriculture.

CARL E. FRIEND, B. Sc., Ontario, Kas. Lumber merchant.

JOHN R. HARRISON, B. Sc., Salina, Kas. Mail-route agent.

HUMPHREY W. JONES, B. Sc., Denton, Texas. Instructor in mathematics, Normal College.

NATHAN E. LEWIS, B. Sc., Hamilton, Ohio. Draughtsman.

ABBIE L. MARLATT, M. Sc., Logan, Utah. Professor of Domestic Economy, Agricultural College.

WILLIAM C. MOORE, B. Sc., Junction City, Kas. Editor.

ERNEST F. NICHOLS, B. Sc., Ithaca, N. Y. Special student in Cornell University.

HARBY E. ROBB, B. Sc., Eureka, Kas. Farmer and county surveyor.

Anna Snyder, B. Sc., Oskaloosa, Kas. At home.

EDWIN H. SNYDER, B. Sc., Highlands, Colo. Editor.

OLIVER L. UTTER, B. Sc., Garden City, Kas. Superintendent of schools.

AARON WALTERS, B. Sc., Golden, Colo. Student of law.

LORA L. WATERS, B. Sc., Junction City, Kas. Teacher.

Daniel W. Working, jr., B.Sc., Denver, Colo. Editor of Fancier and Farm Herald.

1889

EMMA A. ALLEN, B. Sc. Died in June, 1891.

JOSEPH W. BAYLES, B. Sc., Garrison, Kas. Teacher and farmer.

WALTER R. BROWNING, B.Sc., Hamlin, Kas. Civil engineer.

DAVID E. BUNDY, B. Sc., Blue Rapids, Kas. Farmer.

Samuel S. Cobb, B. Sc., Wagoner, I. T. Druggist and postmaster.

JUDSON H. CRISWELL, B. Sc., Manhattan, Kas. Farmer.

MATTIE I. FARLEY Carr, B. Sc., Ruby, Wash. Housewife.

CLARENCE E. FREEMAN, B. Sc., North Topeka, Kas. Principal of Shorey school.

HATTIE L. GALE Sanders, B. Sc., Lake Worth, Fla. Housewife.

JOHN S. HAZEN, B. Sc., Des Moines, Iowa. U.S. Signal Service observer.

ALBERT B. KIMBALL, B. Sc., Manhattan, Kas. Teacher and farmer.

WILLIAM KNABB, B. Sc., Hiawatha, Kas. Bank clerk.

MARY C. LEE, B. Sc., Manhattan, Kas. Teacher.

Anonzo A. Mills, B. Sc., Logan, Utah. Assistant in agriculture, Agricultural Experiment Station, Utah.

Susan W. Nichols, B. Sc., St. Joseph, Mo. Music teacher. -

Walter H. Olin, B.Sc., Osborne, Kas. Superintendent of schools.

ELI M. PADDLEFORD, B.Sc., Riley, Kas. Principal of school.

MAUDE F. SAYRES, B.Sc., Ottawa, Kas. At home.

FLORINE SECREST, B. Sc., San José, Cal. Teacher.

STANLEY SNYDER, B.Sc., Oskaloosa, Kas. Farmer.

CHARLES W. THOMPSON, B. Sc., Holton, Kas. Dentist.

Jane C. Tunnell, B.Sc., Manhattan, Kas. Assistant Librarian, Kansas State Agricultural College.

INA M. TURNER, B. Sc., Topeka, Kas. Printer.

ROBERT U. WALDRAVEN, B. Sc., Parallel, Kas. Teacher and farmer.

HENRY S. WILLARD, B.Sc., M. D., Manhattan, Kas. Physician.

1890

SAMUEL I. BORTON, B. Sc., Hilltop, Kas. Farmer.

FRANK A. CAMPBELL, B.Sc., Highlands, Colo. Reporter.

ARTHUR F. CRANSTON, B.Sc., Lawrence, Kas. Assistant in Law Department, State University.

JOHN DAVIS, B.Sc., Emporia, Kas. Student at State Normal.

GRANT W. DEWEY, B.Sc., Manhattan, Kas. Photograher.

CHARLES J. DOBBS, B.Sc., Topeka, Kas. Student of law and teacher.

CHARLES W. EARLE, B.Sc., Denver, Colo. Advertising agent.

SCHUYLER C. HARNER, B.Sc., Leonardville, Kas. Teacher and farmer.

JOHN W. IJAMS, B.Sc., Osawkie, Kas. Farmer.

BERTHA S. KIMBALL, B.Sc., Manhattan, Kas. Teacher.

HARRIET E. KNIPE, B.Sc., Manhattan, Kas. At home.

NELLIE P. LITTLE, B.Sc., Manhattan, Kas. Teacher.

ELLSWORTH THOMAS MARTIN, B.Sc., Georgetown, Colo. Miner and solicitor.

SILAS C. MASON, B. Sc., Manhattan, Kas. Assistant Professor of Horticulture, Kansas State Agricultural College.

WILTON L. MORSE, B.Sc., Mancos, Colo. Teacher.

ALBERT E. NEWMAN, B.Sc., Rago, Kas. Farmer and teacher.

Julia R. Pearce, B.Sc., Manhattan, Kas. Clerk in executive offices of State Agricultural College.

EMIL C. PFEUTZE, B.Sc., Manhattan, Kas. Superintendent of Manhattan water-works.

WILLIAM H. SANDERS, B. Sc., Lake Worth, Fla. Teacher.

EMMA SECREST, B.Sc., Randolph, Kas. Teacher.

MARY B. Senn, B.Sc., Enterprise, Kas. Teacher, and post graduate student, Kansas State Agricultural College.

RALPH SNYDER, B.Sc., Oskaloosa, Kas. Farmer and teacher.

George E. Stoker, B.Sc., Cambridge, Mass. Law student at Harvard University.

Walter T. Swingle, B.Sc., Washington, D.C. Assistant in Division of Vegetable Pathology, Department of Agriculture.

GILBERT J. VAN ZILE, B.Sc., Georgetown, Colo. Miner and solicitor.

HARRY N. WHITFORD, B. Sc., Manhattan, Kas. Teacher.

THOMAS E. WIMER, B.Sc.. Died in June, 1890.

1891

WILLIAM AARON ANDERSON, B. Sc., Topeka, Kas. Stenographer.
WILLIAM SHERMAN ARBUTHNOT, B. Sc., D.V. S., Cuba, Kas. Veterinarian.

```
HERMAN WILLIAM AVERY, B. Sc., Wakefield, Kas. Farmer and law student.
```

JUDD NOBLE BRIDGMAN, B. Sc., Manhattan, Kas. Post-graduate student and instructor, State Agricultural College.

ROBERT JAMES BROCK, B. Sc., Manhattan, Kas. Law student.

Francis Charles Burtis, B. Sc., Manhattan, Kas. Assistant in agriculture, Experiment Station, State Agricultural College.

CHARLES ALBERT CAMPBELL, B. Sc., Manhattan, Kas. Student of theology.

Spencer Norman Chaffee, B. Sc., Green, Kas. Teacher and farmer. Ephraim Clay Coburn, B. Sc., Kansas City, Kas. Clerk in packing

Gerteude Coburn, B. Sc., Menomonie, Wis. Instructor in household economy.

TINA LOUISE COBURN, B. Sc., Kansas City, Kas. Teacher.

RACHEL CALLIE CONWELL, B. Sc., Manhattan, Kas. Teacher.

CHRISTINE MOSSMAN CORLETT, B. Sc., Manhattan, Kas. Teacher.

MARY EMMELINE COTTRELL, B. Sc., Wabaunsee, Kas. Teacher.

Phil. Sheridan Creager, B. Sc., Jamestown, Kas. Farmer and teacher.

KARY CADMUS DAVIS, B. Sc., Emporia, Kas. Student, State Normal.

THOMAS CLARKE DAVIS, B. Sc., Benedict, Kas. Farmer.

HELEN PEARL Dow, B. Sc., Manhattan, Kas. Clerk in post office.

Anna Fairchild White, B. Sc., Manhattan, Kas. Housewife.

HARRY BENSON GILSTRAP, B. Sc., Chandler, Ok. Printer and editor.

ALMON ARTHUR GIST, B. Sc., Belleville, Kas. Telegraph operator.

AMY MYRTLE HARRINGTON, B. Sc., Emporia, Kas. Student, State Normal.

DELPHA MAY HOOP, B.Sc., Manhattan, Kas. Teacher.

MAYME AMELIA HOUGHTON, B. Sc., Manhattan, Kas. Teacher.

WILLIS WESLEY HUTTO, B. Sc., St. George, Kas. Teacher.

George Victor Johnson, B. Sc., Chandler, Ok. Printer and editor.

Frank Mullett Linscott, B.Sc., D.V.S., St. Joseph, Kas. Veterinarian.

Bessie Belle Little, B. Sc., Manhattan, Kas. Post-graduate student, State Agricultural College.

Albert Edwin Martin, B.Sc., Denver, Colo. Telegraph operator.

Nellie Evangeline McDonald, B. Sc., Manhattan, Kas. Teacher.

DAVID COLLINS McDowell, B. Sc., Manhattan, Kas. Student of theology.

ALFRED MIDGLEY, B. Sc., Minneapolis, Kas. Farmer.

MADELEINE WADE MILNER, B. Sc., Manhattan, Kas. At home.

Paul Chambers Milner, B. Sc., Topeka, Kas. Clerk in Santa Fé R. R.

HARRY ELBRIDGE MOORE, B. Sc., Portland, Ore. Book-keeper.

JOHN OTIS MORSE, B. Sc., Mound City, Kas. Teacher.

HATTIE MAY NOYES, B. Sc., Wabaunsee, Kas. Teacher.

Louise Reed, B. Sc., Topeka, Kas. Teacher.

ARTEMUS JACKSON RUDY, B. Sc., Fresno, Cal. Fru.t-raiser.

HENRY VERNON RUDY, B. Sc., Fresno, Cal. Fruit-raiser.

LOTTIE JANE SHORT, B. Sc., Manhattan, Kas. Post-graduate student, State Agricultural College.

BEN SKINNER, B. Sc., Fairview, Kas. Teacher.

CAROLINE SCOTT STINGLEY, B. Sc., Manhattan, Kas. Teacher.

LILLIAN ALICE St. John, B. Sc., Manhattan, Kas. Teacher.

ELLIS CHENEY THAYER, B.Sc., Roxbury, Mass. Student, School of Technology.

Sam L. Van Blarcom, B.Sc., Kansas City, Kas. Railroad mail-agent. Frank Albert Waugh, B.Sc., Helena, Mont. Editor, *Agricultural Journal*

FANNIE ELIZABETH WAUGH, B.Sc., McPherson, Kas. At home.

FLORA EMILIE WIEST, B.Sc., Manhattan, Kas. Teacher.

BERTHA WINCHIP, B.Sc., Manhattan, Kas. At home.

ALFRED ORIN WRIGHT, B.Sc., Burr Oak, Kas. Teacher.

Effie Jeannetta Zimmerman, B.Sc., Troy, Kas. At home.

SUMMARY.

During the 29 years of its existence, the College has received over 3,000 students, about a third of whom were young women. Most of them have come from farmers' homes, and, after from three months to three years of study, have gone back to such homes without graduation.

The number of graduates up to 1891 is 284, of whom 95 are women. Graduates previous to 1877 pursued, with two exceptions, a classical course, and received the degree of Bachelor of Arts. Since 1877, all have received the degree of Bachelor of Science, after a four-years course in the sciences, with good English training.

Of the 189 men, 5 are deceased, and the remainder are reported in the following occupations:

Farmers	34
Fruit-growers and nurserymen	5
Stock-raisers	2
Assistants in Agricultural Experiment Stations	4
Assistants in U.S. Department of Agriculture	3
Editor of agricultural paper	2
Teachers and students of special sciences	10
Veterinary surgeons	3
Mechanics	4
Civil, electrical and mechanical engineers	9
Contractors and builders	3
Architects and draughtsmen	3
General business men	8
Merchants	9
Printers	4
Photographer	1
Superintendents of public schools	11
Teachers of public schools	24

Students in other institutions	5
Officers in army	2
Observers in Weather Service	2
Physicians and students of medicine	3
Druggists	1
Dentists	3
Editors	9
Ministers	5
Lawyers and students of law	20
Officials and official clerks	17
Total	206
In two occupations	
	184
Of the 95 women, 4 are deceased, and the remainder are occupied	as
follows:	
Housewives	34
At home	8
Assistant in sewing department	1
Teachers of household economy	
Teachers in public schools	3
	3 26
Teachers and students of special sciences	.,
-	26
Teachers and students of special sciences	26 5
Teachers and students of special sciences	26 5 2
Teachers and students of special sciences	26 5 2 2
Teachers and students of special sciences	26 5 2 2 4
Teachers and students of special sciences Teachers of music Teachers of art Clerks or stenographers Printer	26 5 2 2 4
Teachers and students of special sciences Teachers of music Teachers of art Clerks or stenographers Printer Milliner and dressmaker Assistant librarian	26 5 2 2 4 1
Teachers and students of special sciences Teachers of music Teachers of art Clerks or stenographers Printer Milliner and dressmaker	26 5 2 2 4 1 1

INDEX.

				_														
A																	PA	GE.
Admission, Terms of, Board of Regents,			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	45 3
•									•		•	•	•	•	•	•	•	50
Business Directions,						•			٠	•	•	•	٠	•	٠	•	•	24
Course of Study, .									•	•	•	•	•	•	•	•	•	
Degrees,									•	•	•			٠	٠	٠	•	28
Industrial Training,									•	•		٠		٠	٠	•	•	28
Post-Graduate Cours									٠	•	•	•	•	•	٠	•	٠	28
Scheme of Class Hor								-	•	•	•	•	•	•	•	٠	•	27
Special Courses, .						•			٠	٠	•	•	•	٠	٠	•	•	2 8
Endowment and Reso			,			•	•	٠	•	•	٠	•	٠	•	•	•	•	22
Examinations,						•	٠	٠	٠	٠	•	•	•	٠	•	٠	• '	45
Expenses,		-				•	•	•		•	•	•	٠	•	٠	•	•	50
EXPERIMENT STATION,				٠	٠	•	٠	٠	٠		٠	٠	٠	٠	٠	٠	٠	7
FACULTY,				-	-	٠		•				٠	•	٠		٠	•	4
General Duties and	PB	IVI	LE	GE:	s,		٠		•	•	•	•		•	•	•	•	48
Graduates,		•		•						•			• •					8
Grounds and Buildin	GS,									•		•					•	40
LABOR AND EARNINGS,																		49
MEANS OF ILLUSTRATION	on,																	42
Овјестѕ,																		23
OUTLINE OF INSTRUCTI	on,	,																29
Agriculture,																		29
Algebra,																		33
Anatomy and Physic	olo	gy,	,							,								32
Book-keeping and C	om	m	erc	ial	L٤	w,												33
Botany,																		31
Chemistry,																		31
Drawing,																		34
English Language an																		35
Entomology,																		30
Geology,																		32
Geometry,																		34
History and Constitu																		36
Horticulture,																		30
Household Economy																		33

64 KANSAS STATE AGRICULTURAL COLLEGE.

OUTLINE OF INSTRUCTION	·	Co	ncl	ud	ed	:						
Industrial Arts,												37
Agriculture and Hor	tici	ı ltı	ıre,	,								37
Carpentry,												37
$Cooking, \ldots$												37
$Dairying, \dots$												37
$Instrumental\ Music,$												38
$Iron-Work, \ldots$												38
$Printing, \dots$												38
Sewing, \dots												38
Logic and Philosophy,												36
Mechanics and Engine												34
Military Training, .												
Mineralogy,												32
Physics and Meteorolo	gу	,										38
Political Economy, .												36
Special Hygiene,												38
Trigonometry and Sur	ve	yin	g,									34
Veterinary Science, .												
Vocal Music,												
Zoölogy,												
STUDENTS,												8
TERMS AND VACATIONS,												2
TERMS OF ADMISSION,												45

GALENDAR.

1892-'98.

FALL TERM: September 15 to December 23.

WINTER TERM: January 9 to March 31.

SPRING TERM: April 3 to June 14.

June 14, Commencement.

1893-'94.

FALL TERM: September 14 to December 22.