

THE STUDENT'S TEN COMMANDMENTS

1. Thou shalt set the service of God and man before thine own as the end of all thy work.
2. Thou shalt inquire of each study what it has for thee as a worker for a better world, not relinquishing thy power of it until thou hast gained its profit unto this end.
3. Thou shalt love the truth and only the truth, and welcome as truth gladly, whether it bring thee or the world joy or suffering, pleasure or hardship, ease or toil.
4. Thou shalt meet each task at the moment assigned for it with a willing heart.
5. Thou shalt work each day to the limit of thy strength, consistently with the yet harder work which shall be thy due on the morrow.
6. Thou shalt respect the rights and pleasures of others, claiming no privileges for thyself but the privilege of service, and allowing thyself no joy which does not increase the joy of thy fellow-men.
7. Thou shalt love thy friends more than thyself, thy college more than thy friends, thy country more than thy college, and God more than all else.
8. Thou shalt rejoice in the excellencies of others, and despise all rewards saving the gratitude of thy fellows and the approval of God.
9. Thou shalt live by thy best holding thyself reluctantly to those ideals thou dost most admire in other men.
10. Thou shalt make for thyself commandments harder than as other can make for thee, and each day commandments more rigorous than thine own laws of the day before.

—John M. Thomas, D.D.

Ottawa University

Register for 1911-12

Announcements for 1911-12

Ottawa University

Ottawa, Kansas

*THE FORTY-SIXTH ANNUAL
CATALOGUE*

REGISTER FOR 1910-11
ANNOUNCEMENTS FOR 1911-12



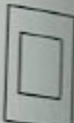
The Quarterly Bulletin

Vol. VIII.
April, 1911
No. 4

Entered at Ottawa, Kansas, as Second Class Matter



DEPARTMENTS OF THE UNIVERSITY



- I. THE COLLEGE OF LIBERAL ARTS
- II. THE ACADEMY
- III. THE SCHOOL OF FINE ARTS
 1. THE CONSERVATORY OF MUSIC
 2. THE SCHOOL OF EXPRESSION
 3. THE SCHOOL OF ART
- IV. THE BUSINESS COLLEGE

GREETING.

The management of Ottawa University takes pride in the character of the work that is being done in the institution. A large amount of money has been expended during the past few years for library and laboratory equipment and supplies for the courses offered. No course of study is offered in any department unless there is equipment sufficient to give it in such manner that the student will receive full credit for that work in any other college or university. This principle is consistently maintained in every department. This has given the institution its high standing among colleges.

In a moderate sized college personal attention is given to the work and conduct of each pupil. The result is that very few students fail to pass in their work. There are larger opportunities in colleges the size of Ottawa University for participation in inter-collegiate debates, oratorical contests, athletics, etc., than can possibly be afforded the average student in large institutions.

In every way possible the administration seeks to develop symmetrical manhood and womanhood. The scholastic, the moral and religious atmosphere about the institution are such as will help to develop the best type of character.

This catalogue presents only the courses of study that are offered. A cordial invitation is extended to the public to visit the classrooms and laboratories at any time.

THE UNIVERSITY CALENDAR.

The collegiate year of Ottawa University is divided into two Semesters of eighteen weeks each. The Fall Semester opens on the first Wednesday after the second Sunday in September and continues until the last week in January. The Spring Semester opens on the Tuesday after the close of the Fall Semester and continues until Commencement day, the Wednesday following the first Sunday in June.

ACADEMIC YEAR, 1910-1911.

- Jan. 31, Tuesday, Spring Semester opened.
 April 4, Tuesday, Mid-Semester Reports Issued.
 April 21, Friday, Charter Day.
 May 30, Tuesday,
 May 31, Wednesday, } Final Examinations for Spring Semester.
 June 1, Thursday,
 June 2, Friday,
 June 2, Friday, 8 p. m., Graduation Recital of Conservatory of Music.
 June 3, Saturday, 8 p. m., Inter-Society Debate.
 June 4, Sunday, 10:30 a. m., Baccalaureate Sermon by the President.
 8 p. m., Sermon before the Christian Associations.
 June 5, Monday, 10:30 a. m., Graduation Exercises of the Academy.
 3 p. m., Declamation Prize Contest.
 8 p. m., Graduation Recital of Expression Department.
 June 6, Tuesday, 10 a. m., Senior Class Farewells.
 12 noon, Alumni Luncheon.
 2 p. m., Annual Meeting of Board of Trustees.
 8 p. m., Oratorio.
 June 7, Wednesday, 10:30 a. m., Commencement.
 8 p. m., President's Reception.

ACADEMIC YEAR, 1911-12.

- Sept. 5, Wednesday, 9:30 a. m., Fall Semester Opens.
 Nov. 15, Wednesday, Mid-Semester Reports Issued.
 Nov. 30, Thursday, Thanksgiving Recess.
 Dec. 22, Friday, noon, Holiday Recess Begins.

1912.

- Jan. 9, Tuesday, 8 a. m., University Work Resumed.
 Jan. 30, Tuesday,
 Jan. 31, Wednesday, } Final Examinations for Fall Semester.
 Feb. 1, Thursday,
 Feb. 2, Friday,
 Feb. 5, Tuesday, Spring Semester Opens.
 April 9, Tuesday, Mid-Semester Reports Issued.
 April 20, Saturday, Charter Day.
 June 5, Wednesday, Commencement.

SECTION I—ORGANIZATION.

THE BOARD OF TRUSTEES.

Term Expires June, 1911.

H. Q. BANTA	Oberlin
REV. O. C. BROWN..	Lawrence
A. DOBSON	Ottawa
W. M. GRAY	Chaplin
F. O. HETRICK	Ottawa
C. B. HEWLETT	Kansas City
GEORGE W. HUNLEY	Garnett
J. M. McWHARF	Ottawa
F. H. STANNARD	Ottawa

Term Expires June, 1912.

J. S. BALYEAT	Ottawa
L. E. CHASE	Hiawatha
REV. J. T. CRAWFORD	Parsons
D. F. DANIEL	Ottawa
J. W. EBY	Howard
J. P. HALL	Medicine Lodge
REV. T. J. HOPKINS	Coffeyville
T. W. MORGAN	Ottawa
J. F. MORSE	Phillipsburg

Term Expires June, 1913.

R. W. BLACK	Elgin
REV. G. W. CASSIDY	Wichita
C. Q. CHANDLER	Wichita
F. W. COOK	Hutchinson
C. F. LAMB	Ottawa
J. V. MITCHELL	Ottawa
PROF. A. S. OLIN	Lawrence
W. A. SMITH	Hays
REV. G. W. TROUT	Pittsburg

OF OTTAWA UNIVERSITY.

Term Expires June, 1914.

REV. J. BARRATT	Topeka
J. M. BOOMER	Fairview
REV. W. G. CAREY	McPherson
DON KINNEY	Newton
H. E. SILLMAN	Winfield
ROBERT STONE	Topeka
C. G. WEST	Emporia
A. WILLIS	Ottawa

Officers of The Board of Trustees.

DON KINNEY	President
J. M. McWHARF	Vice President
A. WILLIS	Secretary
J. V. MITCHELL	Treasurer of Current Funds
C. F. LAMB	Treasurer of Endowment and Trust Funds

COMMITTEES.

Executive.

A. DOBSON, Chairman.	A. WILLIS, Vice Chairman.
F. H. STANNARD, Secretary.	O. C. BROWN.
D. P. DANIEL.	C. F. LAMB.
	J. V. MITCHELL.

Finance.

DON KINNEY, Chairman	C. F. LAMB,	C. Q. CHANDLER,
D. F. DANIEL,		H. E. SILLMAN.

Loan and Investment.

F. H. STANNARD, Chairman	C. F. LAMB,	A. DOBSON.
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Auditing.

F. O. HETRICK, Chairman.	J. T. CRAWFORD,	T. W. MORGAN.
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Charlton Cottage Committee of Women.

MRS. E. K. CHANDLER, Chairman.
MRS. F. H. STANNARD, Treasurer.
MRS. S. E. PRICE.
MRS. A. O. RATHBUN.
MRS. L. C. STINE.

THE ANNUAL CATALOGUE

Women's Education Society.

- MRS. S. E. PRICE, President.
 MRS. C. A. SMART, First Vice President.
 MRS. L. C. STINE, Second Vice President.
 MRS. J. A. G. SHIRK, Recording Secretary.
 MRS. E. K. CHANDLER, Corresponding Secretary.
 MRS. R. S. BLACK, Treasurer.

OF OTTAWA UNIVERSITY.

THE FACULTY.

- WILLIAM EBER PRICE, D. D., 603 Cedar St.
 President and Professor of Biblical Literature.
 MELAN L. WARD, A. M., D. D., 703 Poplar St.
 Emeritus Professor of Mathematics.
 WILLIAM B. WILSON, M. S., 1008 Cedar St.
 Professor of Biological Science.
 WARREN S. GORDIS, Ph. D., 930 Cedar St.
 Professor of Greek and Latin.
 JAMES A. G. SHIRK, M. S., 920 Cedar St.
 Professor of Physics.
 HERBERT H. FOSTER, Ph. D., 814 Poplar St.
 Professor of Philosophy and Education.
 Principal of Academy.
 JOHANNA M. PIRSCHER, Ph. M., 634 Poplar St.
 Professor of German and French.
 Dean of Women.
 ORIEL S. GRONER, M. S., 733 Cedar St.
 Professor of Chemistry.
 HERBERT RAY NICHOLS, A. M., 819 Main St.
 Professor of English Language and Literature.
 CHARLES OSCAR HARDY, A. B., 621 Mulberry St.
 Professor of History and Economics.
 HUGH P. KEAN, A. M., 831 Poplar St.
 Professor of Mathematics.
 LULU M. BROWN, A. B., 506 E. Fourth St.
 Instructor in Latin and History.
 RUTH L. SIMPSON, A. B., 819 Main St.
 Instructor in English.
 FRANKLIN E. CHAFFEE, 1004 South Main St.
 Principal of the Commercial Department.
 CAROLINE M. MEDDERS, 742 Main St.
 Director of School of Expression.
 J. W. BIXEL, 903 Hickory St.
 Dean of the Conservatory and Teacher of Voice.
 NELLE HARRIS, 406 Willow St.
 Teacher of Piano.
 LUCY K. FORBES, 721 Cedar St.
 Teacher of Piano and Pipe Organ.
 MARY COLER DAVIS, 608 Poplar St.
 Teacher of Violin.

HALE B. BLAIR,	Assistant in Physics
GEORGE A. COLLETT,	Assistant in Biology
CHESTER L. FINCH,	Assistant in Library
HARRY V. GEORGE,	Assistant in Zoology
IRENE M. HENDERSON,	Assistant in Mathematics
CHESTER ROBERTS,	Assistant in Chemistry
LUELLA GLEE STALLARD,	Assistant in Mathematics
EVA H. STEPHENSON,	Assistant in Library
EDNA M. UMSTOT,	Assistant in Scenography
EARL D. VANCLEVE,	Assistant in Library

OTHER OFFICERS.

PROF. W. B. WILSON,	Registrar
E. K. CHANDLER, D. D.,	Librarian
PROF. W. S. GORDIS,	Secretary of the Faculty
DRUSILLA A. MOSES,	Secretary to the President
GLENN WOOD,	Director of the Orchestra
MARGARET STICKLER,	Matron of Charlton Cottage
FRED P. FLETCHER,	Head Janitor
D. R. STILES,	Night Watchman

COMMITTEES OF THE FACULTY.

Registration:	College,	Professors Wilson and Shirk
	Academy,	Professor Foster and Miss Brown
	Business College,	Professor Chaffee
Library,		Professors Chandler, Gordis and Nichols
Bible Study,		Professors Groner, Hardy and Pircher
Athletics,		Professors Wilson and Chaffee

LECTURERS.

HENRY CLAY MABIE, D. D., Boston,	Life Talks
PROF. W. A. HARSHBARGER, Topeka,	Luther Burbank and his Work
PROF. G. W. RICHEY, Pasadena, Cal.,	Celestial Photography
HON. F. S. JACKSON, Topeka,	Good Citizenship

SECTION II—HISTORICAL.

HISTORICAL SKETCH.

Ottawa University is the result of missionary effort by Baptists among the Ottawa Indians. This was begun while they were in Canada; it was continued during their migration westward and after their settlement upon their reservation in one of the richest portions of Kansas. This work was carried on with enthusiastic devotion by Rev. Jotham Meeker and wife. The principal teachers among the Indians were Rev. John Tecumseh Jones, an Indian graduate of Madison (now Colgate) University, and his wife, Jane Kelly Jones, a native of Maine. At that time the Ottawas were occupying a reservation about twelve miles square in Franklin County. They had organized the First Baptist church of Ottawa, Kansas. As early as 1860 it had about one hundred members.

While this missionary and educational work was being carried on among the Indians, the white Baptists of Kansas, true to the traditions of the denomination which has always been the champion of higher education, had chartered the "Roger Williams University" and were discussing a location for it. The question of location came up at a meeting of the Baptist State Convention in Atchison in 1860. Rev. J. T. Jones was present as a delegate from the First Baptist Church (Indian) of Ottawa. He suggested that the white Baptists join with the Ottawa Indians in establishing a school on the reservation. The Indians had land that might serve as a basis for an endowment and the whites had money and teachers. A committee was appointed to confer with the Indians. They were found to be favorable and steps were taken to carry out the plan. Through the influence of Mr. Jones and this committee the matter was brought before Congress and an act was passed by which 20,000 acres of the reservation were set apart for the use of the institution of learning.

The same act named a Board of Trustees consisting of four Indians and two whites. The first meeting of this Board was held August 20, 1862. It authorized the sale of 5,000 acres at \$1.25 per acre in order to establish the school. For the next two or three years it appears that the school was carried on and attended by quite a number of the Indian children.

In 1865 at the request of the Indians the name "Roger Williams University" was dropped and a new charter secured re-incorporating the school as Ottawa University. This charter was issued April 21, 1865, under the seal of William Talloss, Probate Judge of Franklin county, to I. S. Killoch, C. C. Hutchinson, John G. Pratt, J. T. Jones, James King, William Hurr and Henry King. These men constituted the first Board of Trustees and carried on the institution for a number of years under the dual management provided in the act of Congress granting them the land. For a variety of reasons this arrangement was not satisfactory to either of the races. In the adjustment of interests the Indians agreed to withdraw and leave the school entirely in the hands of the whites. It was agreed that the 640 acres

retained by Ottawa University should be forever devoted to the purposes of education in Ottawa under the auspices of the Baptists of Kansas, that it should never be encumbered by mortgage and that the proceeds from the sale of any part of it should be used as an endowment. With this settlement of equities the history of Ottawa University begins. In 1873 the Board of Trustees was increased in number from six to twenty-four. In 1910 to thirty-six.

The school has passed successfully through all of the struggles of a growing college in the great West. Twice it has suffered the disaster of fire, but in all of its struggles it has been true to its trust. It has been served by some of the noblest men who have wrought in the West. Prof. M. L. Ward has given more than twenty-five years of most devoted service to it. Such men as Dr. P. J. Williams, Rev. Franklin Johnson, D. D., Rev. F. W. Colgrove, D. D., Dr. J. D. S. Riggs and others have each built a part of his life into the institution. The result is a school recognized throughout the state for its thoroughness in the scholastic branches and its wholesomeness in the moral and religious influences that permeate its students. The progress has been most rapid in recent years. The promise for the future is bright.

There are few schools that can look with greater satisfaction upon the young men and women who have gone out from its halls than can Ottawa University. They are in all vocations of life and reflect credit upon the institution where they were trained. Many of them are in the teaching profession, others are occupying some of the important pulpits in Kansas and other states, no fewer than ten are now or have been in foreign mission work, while a large body of them are helping to make the homes of our land. Such men as Rev. John Tecumseh Jones, who left the residue of his estate to the University, and those whose names have already been mentioned as well as many others have done a work that will be a permanent blessing to the world.

While the institution has been established, maintained and largely supported by Baptists, it is in no sense sectarian. It encourages Christian culture and a manly, genuine Christian life founded upon the Bible as the sole and sufficient authority in all matters religious. It teaches that a symmetrical character must include Christianity. It aims at thoroughness in all of the scholastic branches. Its equipment is up-to-date and its teachers keep up with the times in their subjects. As will be seen in the following pages it offers a variety of courses sufficient to furnish to students a broad culture as a basis for specific preparation for any vocation in life.

INCORPORATION.

The incorporation of the University is of the simplest kind, thus giving to the trustees the broadest scope for building an institution that will be in the largest degree beneficial to all concerned. The following documents are on record:

January 30th, 1865.

To the Honorable William Tulloss, Probate Judge of Franklin County:—

The undersigned resident freeholders, of the County of Frank-

lin, desire to become a body corporate in accordance with an act to enable the trustees of Colleges, Academies and companies to become bodies corporate, passed by the Kansas legislature to establish, create and endow Colleges and Universities for the purpose of promoting education, religion, morality and agriculture and all incidental objects connected therewith. Such incorporation to be located in the town of Ottawa, county of Franklin, and state of Kansas and to be called and designated the Ottawa University; and pray for the selection of judicious, disinterested freeholders of the county and voters therein as appraisers, who shall proceed according to law to make a schedule and to appraise the true value in money of all such goods, chattels, lands and tenements, chose in action, rights and credits, and subscriptions, as the undersigned shall present to said appraisers and make returns thereof to the end that the undersigned may be incorporated as provided in said act, hereinbefore mentioned.

I. S. KALLOCH,
C. C. HUTCHINSON,
JAMES WIND,
JOSEPH KING,
WILLIAM HURR,
J. T. JONES,
JOHN G. PRATT.

County of Franklin,
State of Kansas,

April 21, 1865.

To I. S. Kalloch, C. C. Hutchinson, John G. Pratt, J. T. Jones, James Wind, William Hurr and Joseph King, petitioners to this court for incorporation as Trustees of a College to be located in Ottawa, in said county, and to be "called and designated the Ottawa University."

You are hereby notified that appraisers appointed by this court having returned an inventory appraisement of property belonging to the said University, and the same being found to exceed in valuation the amount required by law, you are hereby authorized to act as a body corporate, set forth in your petition, under the laws of the State of Kansas.

Witness my signature and the seal of said Probate Court,
Ottawa, this 21st day of April, A. D., 1865.

(SEAL)

WILLIAM TULLOSS,
Probate Judge.

CONSTITUTION OF THE BOARD OF TRUSTEES.

Article I.—Name, Ottawa University.

Article II.—Object.

The object of this institution shall be to give instruction in the various departments of Arts, Science and Literature, including the Bible, in the interests of a pure Christianity.

Article III.—Trustees.

Section 1. The number of trustees shall consist of thirty-six, at least three-fourths of whom must be members in good standing of Baptist churches, which have adopted the New Hampshire confession of faith or an equivalent, out of whom the President, Secretary and Treasurer shall be elected, and at least nine must be residents of the city of Ottawa, a majority of whom must be members of Baptist churches.

Sec. 2. The members of the Board shall hold their office for four years, nine members to be elected each year, five to be elected each year by the Board of Trustees and the remaining four may be nominated by the Baptist State Convention and elected by the Trustees, and shall hold their office until their successors are elected.

Sec. 3. The Board of Trustees shall have power, (First), to make such rules and regulations as it may deem best for its own government, provided they do not conflict with the provisions of its Charter or Constitution; (Second), to purchase, lease, and sell property, real and personal, or repair buildings for the use of the University, make contracts or contract debts, provided always they do not exceed the assets of the University, (if otherwise the Trustees will be held responsible for said debts); (Third), to employ teachers, to approve the courses of study, to add departments of instruction, to confer degrees either in course or honorary, and to perform all other duties customary for similar bodies.

Article IV.—Teachers.

The President and teachers of the University shall compose the faculty, and shall have power to make and execute rules and regulations regarding the management of the school and the students. The President must be a member in good standing of a Baptist church as above defined, and no person can be employed as professor or instructor unless he has a good moral character and entertains no skeptical religious views.

Article V.

Sec. 1. The location of this University cannot be changed to any other place except by a majority of three-fourths of all the members of the Board of Trustees.

Sec. 2. This Constitution can be altered or amended by a majority of three-fourths of all the members of the Board at any regular meeting, notice having been given of the desired change one year previously in writing.

BY-LAWS OF BOARD OF TRUSTEES OF OTTAWA UNIVERSITY.

Article I.

Sec. 1. The Annual meeting of the Board shall be held in Ottawa on Tuesday, immediately preceding the annual commencement of the University. At that time the following officers and committees shall be chosen by ballot:—President, Vice President, Secretary, Treasurer of the Endowment and Trust Funds, Treasurer of the Current Funds, an Executive Committee of seven, a Loan and Investment Committee of three, and an Auditing Committee of three.

Sec. 2. Other meetings of the Board may be called in a manner and at such times as are hereinafter provided for.

Sec. 3. The Fall Semester of the University shall open on the first Wednesday after the first Sunday in September; the annual Commencement shall be held on the first Wednesday after the first Sunday in June of each year.

Sec. 4. Eleven members shall be necessary to constitute a quorum for the transaction of business.

Sec. 5. The seat of any member who has permanently left the State or who has been absent from three successive regular meetings without an accepted excuse may be declared vacant by a majority vote of all the members present.

Sec. 6. An officer or member may resign his office by a written communication to the Board, and the letter of resignation shall be filed with the Secretary previous to any appointment to fill the vacancy.

Article II.

Sec. 1. At the hour of meeting, or as soon after as a quorum shall be present, the President shall call the Board to order and proceed to business in the following order:—

- Prayer.
- Calling the Roll.
- Reading the Minutes.
- Report of Executive Committee.
- Report of Treasurers and other officers.
- Report of President of the University.
- Report of Special Committees.
- Consideration of communications.
- Unfinished business.
- New business.

Sec. 2. The government of the Board shall be in accordance with rules laid down in Cushing's Manual.

Article III.

Sec. 1. It shall be the duty of the President to preside at all meetings of the Board; to sign all contracts, deeds, bonds, etc.; to

call special meetings of the Board when he shall deem it necessary, or on the written request of three members, provided fifteen days' notice of the same be given the members, and the object of the meeting specified in the call with the distinct understanding that no other business than that mentioned in the call shall come before the meeting; to appoint all committees unless otherwise ordered; to lay before the Board from time to time such suggestions as in his opinion are for the highest interest of the school.

Sec. 2. It shall be the duty of the Vice President to perform all the duties of the President in his absence.

Sec. 3. It shall be the duty of the Secretary to notify all members of the Board of the time and place of the meetings; to keep full and complete records of the proceedings of the Board; to enter these records, after they have been approved, in a suitable book provided for that purpose, and to keep that book when not in use in a fire-proof safe or vault. He shall not permit said book to be taken from his custody. He shall also have charge of all legal papers, documents, etc., belonging to the University, aside from such as belong to the Endowment and Trust Funds. He shall keep the properties of the University insured for such amounts and in such companies as the Board or Executive Committee shall direct. He shall advise the Executive Committee at least thirty days in advance of the expiration of any insurance policy. The seal of the corporation "Ottawa University" shall be kept in the custody of the Secretary. All deeds, leases, contracts, and other legal documents shall be signed by the President and by the Secretary and the seal of the corporation shall be affixed by the Secretary, or in case of his continued absence from the city by the Treasurer of the Endowment and Trust Funds.

Sec. 4. The Treasurer of the Endowment and Trust Funds shall receive and hold all monies intended for either of these purposes and shall deposit the same in such bank or banks as may be approved by the Executive Committee; he shall collect the interest on all securities owned by the University; upon the first day of every month he shall remit to the Treasurer of the Current Funds the total amount of the interest collected during the previous month; he shall keep an accurate and separate account or record for each of the distinctive funds placed in his hands and give a full and complete report of the condition of each of such funds at the annual meeting of the Board or at such other times as may be required. He shall be provided with suitable books for this purpose. These books shall be open at any reasonable time to the inspection of any member or officer of the Board of Trustees or the President of the University. He shall disburse the Endowment and Trust Funds only upon the order of the Board of Trustees or the Loan and Investment Committee. Before entering upon his office he shall give a bond for an amount approved by the Board or Executive Committee, though in no case less than \$10,000, for the faithful performance of his trust. The University shall bear the expense of purchasing this bond from some approved security company.

Sec. 5. The Treasurer of the Current Funds shall collect all bills due the University except interest on the Endowment and Trust Funds; keep an accurate account, in books provided for that purpose, of all receipts and disbursements; keep an inventory of the property,

both real and personal, of the University. All monies placed in his hands shall be deposited in such bank or banks as may be approved by the Executive Committee and shall be paid out only upon the approval of the Board of Trustees or of said Committee. His books shall be open at any reasonable time to the inspection of any member or officer of the Board of Trustees or the President of the University. Before entering upon his office he shall give a bond for the faithful performance of his duty in such amount as may be approved by the Board of Trustees or the Executive Committee, though in no case less than \$2,000. The University shall bear the expense of purchasing this bond from some approved security company. The Treasurer, with the approval of the Executive Committee, shall be empowered to appoint a deputy to act for and in his place.

Sec. 6. It shall be the duty of the Executive Committee to organize itself by the appointment of appropriate officers and committees for the purpose of more expeditiously executing the wishes of the Board, and also to transact all business pertaining to the conduct of the University or its property during the intervals between the meetings of the Board, provided always that no sale of real estate be made without the action of the Board of Trustees.

Sec. 7. The Loan and Investment Committee shall have charge of loaning the Endowment and Trust Funds, sale of all real estate offered by the Board of Trustees for sale and foreclosure of mortgages. No loan shall be made without the written approval of at least two of the three members of said committee.

Sec. 8. The Finance Committee shall be composed of the President of the Board of Trustees, Treasurer of the Endowment and Trust Funds, and three other members of the Board. They shall have general charge of the finances of the University. It shall be their duty to devise ways and means of strengthening the condition of the University financially and to make recommendations to the Board concerning the same.

Sec. 9. The Auditing Committee shall examine at the close of each fiscal year (and at such other times as the Board may direct) the books of the Treasurers of the University and make reports thereon to the Board. They shall also make such recommendations regarding the keeping of said books as they may deem advisable.

Sec. 10. All bills presented to the Treasurer of Current Funds shall be itemized and be approved by the Executive Committee before being paid.

Article IV.

Sec. 1. These By-Laws can be altered or amended at any regular meeting of the Board, provided notice be given in writing one month previous, and at any meeting any by-law may be suspended for that meeting by unanimous consent.

Notes.

1. We, the Trustees of Ottawa University, authorize our Executive Committee to act for us in the interim of our annual meetings on all matters that might come before us in case we were in session, and its action will be confirmed by the Board where it may legally be necessary to do so. (Adopted June 8, 1893.)

2. It was voted that the Executive Committee be authorized to sell any and all properties belonging to this college, except the College Campus. (Adopted June 9, 1899.)

SECTION III.—GENERAL INFORMATION.

LOCATION.

The Location of Ottawa University is ideal for a college. Ottawa is the county seat of Franklin county in the central eastern part of the state. It has a population of over eight thousand. It is fifty-eight miles from Kansas City, near enough for all practical purposes, but far enough away to avoid the temptations incident to a large city. Ottawa is known for its strong churches and good schools, where a "joint" cannot exist. Natural gas is used in almost all of the homes and places of business. An electric plant in connection with the waterworks is owned by the city and furnishes day and night current. There is a Carnegie library that is thrown open to the general public, students included. Ottawa is a city of homes. Its high moral influence is due in a good degree to the fact that many families are there for the purpose of educating their children.

There are two railroad systems that reach the city. The main line of the Missouri Pacific from St. Louis to Colorado furnishes easy access to the city from the west. The Santa Fe system approaches the city from five different directions. At the opening of the Fall Semester representatives of the Christian associations will meet the trains and assist the new students in every way possible to become located in suitable homes.

THE CAMPUS AND BUILDINGS.

The Campus of thirty-three acres covers four blocks in the south side of the city. A paved street leads from the center of town to the entrance to the campus. Plans have been drawn and adopted for the permanent improvement of the grounds. Each year some work will be done toward realizing the general scheme. Walks and driveways will be laid and trees and shrubs will be planted in harmony with this general plan as funds may become available.

There are four buildings:

Science Hall, the original college building, is a stone structure in which are located the chemical and biological laboratories. It was built in 1869, burned in 1875 and rebuilt that same year. Since that time it has served the various needs of the school with periodic adjustment. At the present time it contains two chemical laboratories, three biological laboratories, a psychological laboratory, lecture rooms and museum. While it is adapted to the work as well as such a building could be, yet plans are on foot to erect a modern

up-to-date science building with every modern convenience for college work.

Charlton Cottage, a dormitory for twenty-four young women. This building was erected as a result of the arduous work of Mrs. O. C. Charlton for whom it was named.

The **Gymnasium** was erected some years ago. It has been greatly improved in recent years. While it is not all that we desire, splendid use has been made of it. It contains a large exercise room with basketball court, shower baths that were rebuilt recently, three dressing rooms with new lockers and a room for an attendant. It has recently been furnished with electric lights and raised seats.

University Hall is a stone structure three stories in height. In size it is seventy-three by one hundred and fifty-two feet in outside dimensions with a width of ninety-five feet in the center. It contains the offices of the President and Registrar, two large fire-proof vaults, the chapel with nine hundred seats, a physics laboratory, two society halls, thirteen recitation rooms, the library, rest room for ladies, lavatories and coat rooms. The building is thoroughly furnished, and up-to-date.

The **Conservatory of Music** is located in the second story of a building at the corner of Fourth and Main streets. This building has a reception room, several commodious teaching rooms and a large recital hall. This department is located in the heart of the city so that it may be easily accessible for citizens and students. The teachers in the Conservatory spend a part of each week teaching in the college buildings.

EQUIPMENT.

The Biological Laboratories.—There are four laboratories and lecture rooms occupied by this department. These are thoroughly equipped for all of the work that is given. In the Bacteriological laboratory there is an autoclave, hot air sterilizer, six compound microscopes, two microtomes including a new Minot instrument, gas-affin bath, glassware, stains, chemicals and mounting media. The General Biological laboratory contains Balopticon and many fine lantern slides, microscopes and microscopic slides, manikins, charts, maps, technical glassware, etc.

The Chemical Laboratories are two in number. The laboratory for General Chemistry is furnished with tables for forty-four students. Each student has his own individual outfit. He is supplied with reagent bottles, beakers, flasks, porcelain ware, thermometer, dropping funnel, graduated cylinder, gas bottles, wash bottles, rubber stoppers, clamps, etc., seventy pieces of apparatus valued at \$10. In the laboratory for Qualitative Analysis each student is provided with thirty-five reagent bottles, assorted beakers, flasks, porcelain ware, test tubes, thermometer, platinum wire, etc., eighty-five pieces valued at \$12.50. The laboratory is supplied with gas generators, a water still and side shelf reagents. Chemically pure reagents are provided for the entire work of this course.

For the work in Quantitative Analysis the department furnishes good analytical balances and weights. Each student is provided with

a complete assortment of beakers, flasks, porcelain ware, desiccators, weighing bottles, burettes, pipettes, graduated flasks, cylinders, etc., ninety pieces of good apparatus valued at \$15.

For the work in Organic Chemistry the laboratory is supplied with everything necessary for good work. Each student is furnished with thirty-five pieces of apparatus valued at \$15. The work consists of organic preparations. The equipment is such as to enable the student to do the same grade of work that is done in the best colleges and universities.

For the work in Food and Water Analysis the laboratory is provided with all apparatus necessary for complete quantitative analysis of flour, milk, sugar, baking powder, butter and water. Each student is supplied with ninety-five pieces of apparatus valued at \$17.50.

For the work in Physical Chemistry the laboratory is supplied with Beckman thermometers, conductivity cells, polariscope, transport number apparatus, etc., so that the student can do the best grade of work.

For the work in Advanced Quantitative Analysis each student is furnished with an equipment similar to that provided for the elementary course in this subject but more complete.

New apparatus is being added constantly so as to keep the work up to the highest degree of efficiency.

Physics.—The department occupies two rooms in the basement of University Hall. The larger one is 60 feet square and is the main laboratory and lecture room, and contains a large dark room for experimental work in optics. The laboratory is supplied with water, gas and electric circuits furnishing both direct and alternating currents, and with stone piers and shelves, giving instrument supports free from vibrations. The apparatus is sufficient to show in lectures all the experiments usually given in college physics and to enable the students to perform in the laboratory most of the experiments described in laboratory manuals of college physics. A partial list of the more important pieces of the laboratory equipment would include the following: one physicians X-ray machine, one Foucault heliostat, one cathetometer and one spherometer (Societe Genevoise), two spectrometers, five D'Arsonval galvanometers, seven resistance boxes, one Wheatstone's P. O. bridge, four slide wire bridges, one measuring microscope, one motor-generator set, (1 H. P. motor and 500 watt generator), five transformers, one wireless outfit, two hand power penetrators, one water motor, one Geryk air pump, one Schmidt and Haensch polariscope, ten D. C. and A. C. ammeters, voltmeters and wattmeters, one standard condenser (Leds and Northrup), one earth inductor, an optical disc, a large number of Geissler, Crookes, and X-ray tubes for the study of electrical discharges in high vacua, and a spinthariscopes for demonstrating radium energy. New apparatus is being added as is required for the best work.

Mechanical Drawing.—This department is located in a room in the basement of University Hall. Each student has an individual

drafting table. Mechanical Drawing is given during the Freshman and Sophomore years and is taken by those students preparing for technical work, and also by those scientific students who are specializing in physical science.

Surveying.—The equipment for surveying consists of a Gurley engineer's transit with vertical circle and stadia wires; a Keuffel and Esser engineer's Y level; a Winzer transit, rods, tapes, chains, slide rules, planimeters, and other minor instruments.

The Museum has been almost entirely re-classified recently by one of the best experts in this country. Liberal use is made of these specimens in the study of Geology and Biology.

The Library is new and well selected. In 1902 the entire library was burned. Since that time nearly six thousand volumes have been gathered. About one thousand dollars per year are available for books and magazines. The selection of books covers each department. A liberal supply of magazines are found in the reading rooms so that students may keep in touch with the great movements of the present time.

It is the purpose of the trustees to furnish the institution with such equipment as may be necessary for the best grade of work in the courses that are offered. A large amount of apparatus has been added during the past few years in order to strengthen the courses in the sciences. This will continue to be the policy of the institution. Students may rely upon getting the grade of instruction that will give them full credit in any other institution for all work taken here.

EXPENSE.

Expense is an important item with every student. A large majority of the students room and board with families in the vicinity of the University campus. In this way they come under the wholesome and restraining influence of home life. Room and board cost from \$2.50 to \$5.00 per week. Possibly a fair average would be \$3.50, though some students by close economy will reduce these expenses to \$2.00 per week. A list of approved rooms is kept in the University office. The teachers have a close watch-care over the homes in which students live.

The range of expenses for a year of thirty-six weeks may be indicated by the following table:

	Low.	Medium.	High.
Board and Room	\$30.00	\$125.00	\$150.00
Tuition and Incidental Fees	47.00	42.00	47.00
Books and Stationery	5.00	7.00	12.00
Totals	\$142.00	\$180.00	\$225.00

This does not include traveling, clothes, laundry or other general expense. That is about what the student makes it.

Charlton Cottage is a home for twenty-four young women. Board and room here may be had for \$3.50 to \$4.00 per week. Young ladies desiring to engage room and board in this dormitory are

requested to correspond with the matron, Miss Margaret Stuckler, before the opening of the Semester. The rooms in the Cottage are furnished, but students are required to furnish their own toilet articles and linen.

Self-Support.—Many students must do something to aid in making their way through school. The citizens of Ottawa are very thoughtful of the students and employ them whenever possible. The Christian associations act as employment agencies and secure employment for numbers of students. The ladies of the Educational Society co-operate in securing homes where a limited number of young women can work for board and room. Students who expect to support themselves in school should come to Ottawa about ten days before school opens so as to arrange work before the University opens. The University cannot guarantee work to students, neither does it encourage any but strong students to try to earn their way while in school. The health and the regular college work must be first.

Aid.—Students for the ministry who have received the approval of the churches of which they are members may expect to receive some aid from the income of endowment funds designated for that purpose and also from other designated funds. The amount of aid may vary from year to year according to the means placed at the disposal of the Board. In the past this amount has been sufficient to pay the tuition. We do not expect it to be any less in the future. There are about twenty endowment scholarships that are each good for the tuition of one person per year in the College, Academy or Business College. Some years a few of these are placed at the disposal of the President and are awarded to worthy students in some of the upper classes.

The Women's Educational Society has a fund from which loans are made without interest to worthy students who need some help in order to complete their college work.

Tuition and Term Bills.—It is believed that a good College education can be secured here as cheaply as anywhere in the West, and much more reasonably than in many institutions. The regular University charges in the College, Academy and Business College, are these:

Tuition	per Semester	\$18.00.	per year	\$36.00
Incidentals	per Semester	2.00.	per year	4.00
Library Fee	per Semester	1.00.	per year	2.00
Athletic Fee	per Semester	1.00.	per year	2.00
Student Enterprise Fee	per Semester	1.50.	per year	3.00
Total				\$47.00

For the charges in the school of Fine Arts see the description of that department. The charges for students registering for three hours or less will be five dollars per Semester in addition to the fees; for a student registering for more than three hours and less than

twelve, \$1.50 for each hour in addition to the fees. All of these charges are payable in advance.

Laboratory Fees.—In addition to the foregoing charges a fee is also charged for materials used in experimentation in certain courses. The schedule of charges at the present time is as follows:

Bacteriology	\$1.00
Botany, all courses, each	1.00
Biology I and II, each	1.00
Chemistry I and II, each	1.00
Chemistry III and IV, each	4.00
Chemistry V, VI and VII, each	1.00
Cytology	4.00
Histology I and II, each	1.00
Psychology, second Semester	1.00
Physics, all courses, each	1.00
Physiology I and II, each	1.00
Physiology III	2.00
Physiology A	5.00
Physiography	2.00
Surveying	1.00
Zoology, all courses, each	2.00

These fees are subject to change without notice by the Board of Trustees, though it is certain that no very marked change will be made in the near future.

The registration fee is one dollar. This fee will be remitted if the registration is made on the first day of the Semester.

In case of withdrawal from the University owing to illness or other necessary and unavoidable causes a non-negotiable credit slip will be issued to the student for the unconsumed tuition still due him. He or any other member of the family may use this credit in partial payment of any subsequent Semester's tuition. If unable to re-enter school, the student may make a cash settlement, but in all cases the entire incidental fee will be retained. Laboratory fees cannot be reclaimed after the second day of the Semester.

Diploma Fees.—For every degree conferred by the College of Liberal Arts and by the School of Fine Arts a diploma fee of \$2.00 is collected. For diplomas where no degree is conferred, a fee of two dollars is charged.

The fee for a diploma when the Master's degree is conferred is five dollars.

SCHOLARSHIPS AND DESIGNATED FUNDS.

Some of the generous friends of the University have provided scholarships for worthy students. In some cases this scholarship provides for the tuition, term bills and some small amount besides. In other cases it provides for tuition only. There is need of a number of such scholarships. One thousand dollars placed in

the hands of the Trustees will provide for the tuition and term bills for one student each year, at the present time.

Rev. John Tecumseh Jones Fund.—There was derived from the residue of the estate of the Rev. John Tecumseh Jones, one of the founders of the Institution, \$5,387.45, the income from which is applied upon the tuitions of approved students for the Baptist ministry.

The Stoccomb Fund.—By the will of the late H. O. Stoccomb, of Chalk Mound, Kansas, the residue of his estate, one thousand dollars, forms a perpetual fund, the interest of which is annually applied upon the tuition of approved Baptist ministerial students.

The Fern Willis Scholarship Fund.—In memory of his daughter, Fern, Mr. A. Willis, for many years a member of the Board of Trustees of Ottawa University, has deposited with the treasurer of the University the sum of one thousand dollars, to form a trust fund. The income from this fund shall be used each year to assist in defraying the expenses of a young woman of moderate or humble circumstances who shall be a graduate of the Ottawa High School. The choice of such person will be made by a committee composed of the Board of Education of the City of Ottawa, the Superintendent of the schools of Ottawa, and the Pastor of the First Baptist church of Ottawa. Preference will be shown to a young woman whose class standing is high and who is a member of a Baptist church. If the beneficiary of this scholarship proves worthy, the benefits will be extended throughout her entire college course.

The Filson-Shoemaker Memorial Scholarship of the Class of 1909.—The class of 1909 with the co-operation of Mr. and Mrs. S. L. Filson and Mr. and Mrs. M. A. Shoemaker placed in the hands of the Trustees \$1,200 to establish a perpetual scholarship in memory of Eva May Filson and Edna Rose Shoemaker, two members of the class who died while in college. The income from this fund shall be paid annually to a beneficiary who shall be chosen in a prescribed manner. "In the choice of a beneficiary regard shall be had for the following: Ability as a student; moral character and disposition to render moral and religious service; qualities of manhood or womanhood, courage, devotion to duty, kindness, unselfishness, and fellowship; ability in athletics; ability in oratory and debate; qualities of leadership and interest in student enterprises."

The George S. Holt Scholarship Fund.—The sons and daughters of Mr. George S. Holt, as a memorial to their father who was a long while connected with the management of Ottawa University, placed in the hands of the Trustees \$650, the income of which is to be paid annually to some student "of unquestioned moral character, preferably a member of a Baptist church who is preparing for the ministry or missionary work", who shall be chosen in a prescribed manner.

The Merrick K. Barber Endowment.—Mr. and Mrs. Charles Lovelace of Turner, Kansas, have given to the University thirty-one acres of valuable land near Kansas City in which they retain a life

interest. The proceeds from this land will form the Merrick K. Barber Endowment for aid of students for the Baptist ministry.

Prof. and Mrs. M. L. Ward Scholarships.—Prof. Ward who has been connected with Ottawa University in various capacities since 1899 has given to the University his homestead in which he retains a life interest. After his demise the Trustees will establish six scholarships. The beneficiaries of these scholarships will be chosen in a manner prescribed by Prof. Ward.

The following scholarships are perpetual and good for the tuition of one student each year in the College, Academy or Business Department.

The Octavia Reed Scholarship established by Mrs. Octavia Reed, of Louisville.

The Harriet Chase Scholarship by Mrs. J. S. Tyler, of Fairview.

The James M. Chase Scholarship by Mr. L. E. Chase, of Hiawatha.

The Lucela M. and William F. Holroyd Scholarship by Mr. W. F. and Miss L. M. Holroyd, of Cedarvale.

The John Nelson Scholarship by Mr. John Nelson, of Ottawa.

The Abigail Bevington Scholarship by the late Mrs. Abigail Bevington, of Iowa, now owned by Mrs. S. A. Ellis, Iowa.

The Simeon Cole Scholarship by the late Mr. Simeon Cole, of McLouth, now owned by Mrs. Dean Boyd Dobbs, McLouth.

The Peter and Matilda Bollinger Scholarship by Rev. Peter Bollinger, of Bogue.

The Pearl B. Kellogg Scholarship by D. D. Kellogg, of Kellogg, Kansas.

The Robert W. and Margaret A. Black Scholarship by Mr. R. W. Black, of Elgin.

The Harry W. and Jennie M. Grass Scholarship by H. W. Grass, of LaCrosse.

The Cordelia Russell Scholarship by Mrs. Cordelia Russell, of Derby.

The William W. and Louisa D. Loveless Scholarship by the late Mr. W. W. Loveless, of Marion.

The Theodore F. and Cynthia E. Bradbury Scholarship by Mr. T. F. Bradbury, of Ottawa.

The James P. and Sallie D. Hall Scholarship by Mr. J. P. Hall, of Medicine Lodge.

The William H. and Lois N. Parish Scholarship by Mr. W. H. Parish, of Kansas City.

The Abraham C. and Eliza F. Miles Scholarship by Mr. A. C. Miles, of Conway Springs.

The C. L. and C. G. Kinney Scholarship by C. L. and C. G. Kinney, of Newton.

The M. L. Ward Memorial Scholarship founded by the Alumni Association of Ottawa University.

University Scholarships.—The Trustees will grant a scholarship

covering tuition for one year in the College to each accredited High School and Academy in the state to be given to that member of the graduating class of that current year who ranks first in scholarship.

A similar scholarship good for tuition for one year in the Academy will be given to the highest ranking graduate in the non-accredited High Schools and the County Common Schools.

These scholarships are granted to encourage students to continue their education. It is necessary for those entitled to these scholarships to present a certificate signed by the Principal, Superintendent or County Superintendent, as the case may be, and President T. D. Crites, Holton, secretary of the Kansas College Presidents' Association. Blanks for this purpose may be secured from the local schools or from President Crites.

The Charles N. Hughton Memorial Fund.—Mrs. Josephine L. Hughton of Scottsville, Kansas, gave to the University a farm of eighty acres to establish a fund in memory of her husband. The farm was sold for \$6,500.

There are several other scholarships that will soon be available. Besides these the President at times has funds placed at his disposal with which he is permitted to aid worthy students who have shown their ability in scholarship and qualities of leadership.

PRIZES.

A number of prizes are offered from year to year for excellence in specific lines of work. The prizes for the current year are as follows:—

The Dobson Prizes. amounting to ten and five dollars respectively, the gift of Mr. A. Dobson, of Ottawa, are awarded to the two members of the Junior Class who excel in the preparation and delivery of original orations. The contest is held during commencement week.

The contestants must be chosen by a preliminary contest if necessary, not later than April 15th. Each oration must be approved by the department of English at least four weeks before the first contest.

The Kinney Prize. the first of ten and the second of five dollars, are given by Mr. Don Kinney, of Newton, Kansas, to the two members of the Sophomore Class who write the best and the second best essays upon one of the several subjects assigned by the faculty. Each essay must contain from 1,000 to 3,000 words, and three copies of it must be handed to the head of the department of English on the fifteenth of April.

The Freshman Latin Prizes.—The First National Bank of Ottawa gives a first prize of ten dollars, and Mr. C. L. Becker, a citizen of Ottawa, a second prize, consisting of the Latin text books used in the Sophomore Class of the following year, to the Freshmen who rank respectively first and second in the Latin work of the year.

The Atkinson Rhetorical Prize.—At the Commencement of 1903

it was announced that Mrs. Margaret Atkinson, a warm friend and supporter of the University throughout its history, would give, beginning with 1904, a prize of twenty-five dollars to that member of the graduating class each year who has made the best grades in rhetorical work during the four years of the college course. Soon after making this offer, Mrs. Atkinson was called to her eternal reward, but her son, Mr. James Northrup Atkinson, (A. B. 1904 B. S. 1906, A. M. 1903), appreciating the spirit which prompted the offer mentioned, and desirous of carrying out the wishes of his mother generously volunteered to continue the prize as a memorial. The awarding of the prize will be determined by the proficiency in Freshman declamation, Sophomore essay, Junior oration and Senior thesis.

The Freshman Declamation Prizes.—Prizes amounting to ten and five dollars are rewarded to Freshmen who excel in declamations.

GOVERNMENT.

Some general statement as to method of entrance to the University and regulations governing student life are necessary in order that there may be a fair understanding between faculty and students. There are as few as possible consistent with clearness.

Entrance.—Students who have completed the eighth grade in the public schools are admitted to the first year in the Academy without examination. Admission to any class higher than the first year in the Academy may be secured either by examination or by certificate. Examinations will be held in the University Hall on the day previous to the opening of the Fall Semester. The certificate consists of a list of the subjects studied and the grades earned in schools previously attended. The statement must cover these facts: subject studied, textbook, length of recitation, number of weeks, and grade earned. Blanks for this purpose can be secured by addressing the Registrar. Students presenting certificates from High Schools accredited by the University of Kansas will be given full credit for all the work that they have done, whether it be one year or four years' work. It simplifies the matter of entrance a great deal if these certificates are mailed to the Registrar of Ottawa University before the opening of the Semester. All students who present grades from unaccredited schools and who cannot satisfy the registration committee of the satisfactory quality of their work will be required to take the entrance examination in the subjects not approved. Candidates who present their grades by mail may learn in advance to what extent their grades will be approved. The registration committee will make every effort to deal in the fairest manner possible with every case.

Matriculation.—Every student, from whatever school he may come or into whatever school of the University he may desire to enter, must first appear in the office of the President. There he must present a letter or certificate of good moral character, signed by his pastor or some responsible person, or in some way satisfy the President that he is a proper person to enjoy the privileges of the University. Then he will fill out a "Permanent Information Card"

and receive a matriculation card signed by the President. From the President's office he will proceed to the registration committee of the school which he wishes to enter. The committee will, upon presentation of his matriculation card, issue to him an enrollment card bearing the names and numbers of the courses which he is to take during the Semester. The student will next present himself before the treasurer and pay his bills, whereupon the treasurer will receipt his bill and stamp his registration card. This card thus stamped must be presented to every instructor on entrance into the class.

It is difficult in a brief statement of this sort to meet every query that may arise in the mind of the prospective student. The University wishes to encourage those who are in doubt to ask questions. All correspondence will be promptly answered. Every effort will be made to assist in every way possible any young person who desires to secure an education.

The government of the University aims to secure the highest type of self-reliant manhood and womanhood. Practically there is but one rule to govern the conduct—that each student shall conduct himself or herself in a gentlemanly or lady-like manner at all times. There has always existed the most kindly relation between the faculty and students. For the purpose of continuing this helpful relationship the faculty has established the following regulations, which are subject to change without notice.

Grades.—A rule to be followed in grading students in the various schools of the University:

"A" shall indicate "excellent work."

"B" shall be applied to "good work."

"C" shall be used to indicate "fair work" of approximately passing grade.

"D" shall denote a "conditional failure," which may be made up by special examination or otherwise.

"F" shall indicate "total failure," work to be done again.

A statement of the grades is sent to the parents or guardians at the middle and the close of each Semester.

Absences.—1. Each student is expected to be present at all the exercises of the classes in which he is registered.

2. Each student who is absent for any reason whatsoever shall confer with the instructor not later than the first day he is present after such absence, about making up work covered during the absence.

3. When a student in the college shall have accumulated during any Semester unexcused absences from class and chapel equal to two-thirds of the number of hours per week for which he is registered plus five, one honor point shall be taken from his record. In case these unexcused absences equal in number the hours per week for which he is registered plus five one Semester hour's credit shall be taken from his credits in addition to the foregoing penalty.

4. When a student in the Academy shall have accumulated during any Semester unexcused absences from class and chapel

to the amount of the number of hours for which he is registered plus five, one-fourth of a unit shall be taken from his record.

6. Three tardy marks in any one class shall be counted as an absence from that class.

7. College students must present their excuses to the President and Academy students to the principal of the Academy.

Deficiencies.—Rules applying to students, who without satisfactory reasons fail in their studies, are as follows:

A. Any student, who in any Semester fails in eight or more hours of his work, shall lose his regular standing, and shall be classed as a special student until the work is satisfactorily made up.

B. Any special student, who in any Semester, without thoroughly satisfactory reasons shall fail to do creditable work in the courses for which he is registered, shall be suspended from the privileges of the University.

Special Examinations.—Students entering the College or Academy for the first time, and wishing to remove entrance conditions or obtain advanced standing on examination shall within one month from matriculation apply to the Registrar and to the instructor concerned for the privilege of taking such examinations.

Conditional failures must during the succeeding Semester be either removed or otherwise arranged for with the instructor concerned.

Any student, who either through failure, conflict of the schedule, or other reasons is unable to take a subject with a class, if the instructor concerned considers it feasible, may, upon vote of the faculty, be accorded the privilege of pursuing the subject outside the class. He must then, after such approval has been granted, obtain from the instructor a plan of study for the subject more extended than that pursued by the class, and pass with a grade of at least B a thorough examination in the subject. For every such examination taken, the candidate must pay to the treasurer a fee of two dollars, and no examination will be given except on presentation to the examiner of a receipt showing payment of the fee for the proposed examinations.

Athletics.—A rule relating to athletic and other contests in which students of the University may engage.

A. No student shall be permitted to take part in any contest as a representative of Ottawa University who shall not have paid, or satisfactorily arranged for, his full tuition for the Semester in which the contest takes place. No official or student of the University shall be permitted to act as surety in such cases.

B. No student shall be permitted to take part in any public contest as a representative of Ottawa University who is not registered for twelve or more hours of classroom work each week, and who is not maintaining a creditable standing in all of the work for which he is registered. Creditable standing shall be interpreted to mean a class grade of C or more maintained during the three weeks immediately preceding the contest.

C. The chairman of the Athletic Committee shall in every case

examine into the qualifications and standing of each candidate not less than forty-eight hours before the contest, and if the candidate proves unqualified, he shall be debarred from the contest.

D. The functions of the University Athletic Committee shall be extended to cover all organizations appearing in public contests of any kind whatsoever.

Ottawa University belongs to the Kansas College Athletic Conference. These rules are formulated in harmony with the actions of that Conference.

Excess Work.—No college student will be allowed to carry more than sixteen hours of recitations per week during the first Semester in residence. If during that Semester or any subsequent Semester he makes a standing of A in all of his subjects he may, during the semester immediately following, take two hours additional in the College or four hours additional in the Academy, with the consent of the registration committee.

Careful records are kept by the University from which each student's character for punctuality and efficiency can be ascertained in years to come. Records are being made that may materially affect a person's opportunities for promotion in the future.

STUDENT ORGANIZATIONS.

The student life at Ottawa is simple and democratic. Little if any of the friction arising from the clannishness of wealth or from social distinction exists nor would it be tolerated if any attempt were made to introduce it. The school is co-educational, and the students, both male and female, move on a plane of entire parity, with little regard to wealth or social pre-eminence. The spirit of Ottawa is whole-souled, temperate, clean, and Christian. The students are given the largest liberty consistent with first class work in the formation and conduct of their organizations. These organizations differ from year to year in some degree. At the present time student life is manifested in these organizations.

Student Council.—Two years ago there was organized by the entire student body the Student Council to manage certain student enterprises. This council is composed of eleven members, four from the College, three from the Academy and four from the student body at large. Local and state oratorical contests, inter-collegiate debates and the "Campus" are managed by this Student Council. This gives each student something to say in the management of all of those enterprises that concern the entire student body. This organization has proven very successful in carrying on the purpose for which it was instituted.

The Campus.—This is a weekly paper issued by the students during the academic year. The editor and business manager are elected by the student body under the direction of the Student Council. While it requires a large amount of a student's time it gives splendid practice in journalism and business management.

Oratorical.—The Student Council provides for a local oratorical contest each year. The winner in this contest represents the Uni-

versity at the State Oratorical Contest. Ottawa has maintained a high place among the colleges of the state in this phase of its work. This year the State Oratorical Contest was held in Topeka, Ottawa's representative, Mr. Leland H. Jenks, took the first place. This is the second consecutive year that Ottawa's orator has taken first place. In the State Prohibition Oratorical Contest Ottawa's representative, Mr. Jesse Elder, took second place.

Debates.—One or more inter-collegiate debates are held each year under the direction of the Student Council. These furnish very valuable practice to students who are looking forward to public life. In addition to the inter-collegiate debates there are regularly the inter-society, academy, and collegiate debates, and the Freshman-Sophomore debate.

Athletic.—The student body is enthusiastically in favor of clean athletics. The Student Council directs the foot-ball, basket-ball, and baseball teams, and the track athletics. Mr. Baughman, a former Ottawa University student will coach foot-ball in 1912. There are several tennis courts on the campus that are in use during the season.

Literary.—The Philaethon and Olympian Literary societies engage the students in voluntary literary work. Their membership is drawn from all departments of the University. Each society has a beautiful hall in which weekly meetings are held. The faculty sustains only an advisory relation to these societies.

Christian Associations.—The two Christian associations take a leading place in shaping the student life. Each association—Y. M. C. A. and Y. W. C. A.—holds a regular devotional meeting each week. On the first Sunday of each month a union missionary meeting is held. During the past year Bible study classes have been organized in connection with the Sunday schools. These have been taught by college teachers. They have been remarkably successful.

Orchestra.—The College Orchestra is one of the most prominent and unique student organizations. It assists in the daily chapel exercises, gives occasional concerts at home and also in neighboring cities.

Ministerial.—The students who have the ministry in view have banded themselves together to meet once per week to consider topics that are of special interest among themselves. Occasionally some member of the faculty or some one from out of the city is invited to address this body. It has proven very effective.

Volunteer Band.—Those students who are looking forward to foreign missionary work meet each week to study some phase of the great work in which they expect to enter.

The Dramatic Club.—This organization has been formed under the direction of the Department of Expression. The members of the Club usually give one play at some time during the school year.

There are several clubs connected with various departments that meet periodically to discuss questions of interest to that club.

SECTION IV.—THE COLLEGE.

THE FACULTY.

SILAS EBER PRICE, D. D., President.
Professor of Biblical Literature.

MILAN L. WARD, A. M., D. D.,
Professor of Mathematics, (Emeritus).

WILLIAM B. WILSON, M. S.,
Professor of Biology.

WARREN S. GORDIS, Ph. D.,
Professor of Greek and Latin.

JAMES A. G. SHIRK, M. S.,
Professor of Physics.

HERBERT H. FOSTER, Ph. D.,
Professor of Philosophy and Education.

JOHANNA M. PIRSCHER, Ph. M.,
Professor of German and French.
Dean of Women.

OREL S. GRONER, M. S.,
Professor of Chemistry.

EGBERT RAY NICHOLS, A. M.,
Professor of English.

CHARLES OSCAR HARDY, A. B.,
Professor of History and Economics.

HUGH P. KEAN, A. M.,
Professor of Mathematics.

HALE P. BLAIR,
Assistant in Physics.

GEORGE A. COLLETT,
Assistant in Biology.

CHESTER ROBERTS,
Assistant in Chemistry.

GENERAL STATEMENT.

The College offers courses of study leading to two degrees, Bachelor of Arts and Bachelor of Science. For each of these degrees a certain amount of work is required and the rest of it is elective within certain limitations as will be seen by further statements. The purpose is to acquaint the student with a variety of subjects during the Freshman and Sophomore years and lead him to do more intensive work in some one field during the Junior and Senior years. The plan is sufficiently flexible so that the student can follow any line of work to which he is attracted. A sufficient amount of work is offered to afford the student a good range of selection. Whatever work is offered will be done in a thorough manner.

It is always wise for students coming from High Schools to plan their work so that the work in College shall be a continuation of their work in the High School in at least three subjects. There should not be too violent a break between the High School and College. The members of the faculty are always ready to confer with the students in regard to the subjects that they are thinking of choosing.

ADMISSION.

In harmony with the other accredited colleges in Kansas, Ottawa University requires fifteen units for unconditional admission to the College of Liberal Arts. Students presenting thirteen units will be entered conditionally with the understanding that the two units lacking will be made up during the first year. It is required that fifteen units must be selected from the schedule herewith presented. (A unit as here used is a subject pursued for thirty-five weeks in an accredited High School or Academy with recitation periods aggregating each week not less than two hundred minutes.)

The Schedule of Admitted Units.

GROUP I..... English	English, four units.	Three units are required.
GROUP II..... Foreign Languages,	Latin, four units. Greek, three units. German, three units. French, three units.	Three or four units are required.
GROUP III..... History.	Greek and Roman, one unit. Mediaeval and Modern, one unit. English, one unit. American, one unit. Economics, one unit or one-half unit. Civics, one-half unit.	One unit is required.

THE SCHEDULE OF ADMITTED UNITS--CONCLUDED.

GROUP IV..... Mathematics.	Elementary Algebra, one and one-half units. Plane Geometry, one unit. Solid Geometry, one-half unit. Plane Trigonometry, one-half unit. Advanced Algebra, one-half unit.	Elementary Algebra and Plane Geometry are required.
GROUP V..... Physical Science.	Physical Geography, one unit or one-half unit. Physics, one unit. Chemistry, one unit.	One unit is required.
GROUP VI..... Biological Science	Botany, one unit. Zoology, one unit. Physiology, one unit, or one-half unit.	One unit is required.
GROUP VII..... Vocational Subjects.	Wood-work, one unit. Drawing, one unit. Domestic Art, one-half unit. Domestic Science, one-half unit. Agriculture, one-half unit. Bookkeeping, one-half unit. Commercial Law, one-half unit. Commercial Geography, one-half unit. Psychology, one-half unit. Methods and Management, one-half unit.	One unit may be offered.

The work covered in these subjects is that which is outlined in "Course of Study for the High Schools of Kansas" issued by the State Board of Education and also the "High School Manual" issued by the University of Kansas.

ACCREDITED HIGH SCHOOLS AND ACADEMIES.

Students completing the course of study in the Academy of Ottawa University are admitted upon presentation of their diploma.

mas. Students from accredited high schools or academies are required to present a certificate signed by the head of the school stating in detail the amount of work done. Blank certificates for this purpose can be had by addressing the president.

Students coming from schools not fully accredited are advised to bring a complete statement of all the work that they have done including text books used, length of time spent on each subject, note books, etc. Each such case will be settled upon its own merits. Examinations will be required only in cases where it is not clear that the work has been up to the standard. In no case except from the Academy of Ottawa University, will it be sufficient to present a diploma. Credits given upon certificates are conditional and may be withdrawn if the work of the student shows his preparation to have been superficial.

GENERAL INFORMATION.

The Academic year is divided into two Semesters. The unit of work is a subject carried for one hour per week for one Semester and designated "one Semester hour." One hundred twenty-six such Semester hours are required for graduation. Two or three hours of laboratory or field work are counted as one Semester hour. Freshmen are not permitted to take more than sixteen hours their first term in residence. After that time the work may be slightly increased with certain restrictions.

Advanced Standing.

Students presenting credits from approved colleges will receive advanced standing for all work done in such institutions. Advanced standing for work done in a preparatory school is given only upon examination or the approval of the department in which credit is desired. Candidates for Bachelor's degree must spend at least one year and that the last in residence work at the University. All applications for advanced standing must be made within one month from the time of matriculation.

Classification.

A student is classified as Freshman who has presented not less than thirteen units for admission. He will be classed as Sophomore when he has made up the deficiency in entrance credits and has completed not less than twenty Semester hours of work; as Junior when he has completed fifty-two hours of work; as Senior when he has completed eighty-four hours of work.

Honor System.

The quantity of a student's work is designated by Semester hours, the quality of it by credits. Credits are determined as follows: for each Semester hour's work for which a student receives the grade of A, one credit is given; for the grade B, one-half credit is given; for the grade of C, no credit is given, though it is a passing grade. In order to be graduated a student must earn at least thirty credits during his four years' course. No student will

be graduated if his grades are not above C. If during his course he secures one hundred credits he will be graduated "with honors." In exceptional cases the faculty may recommend to the Trustees that the student be graduated "with highest honors" taking account of scholarship, efficiency and general activities.

Groups.

The work of the College of Liberal Arts is divided into the following groups:

1. English Language and Literature.
2. Ancient Languages—Greek and Latin.
3. Modern Languages—German and French.
4. Mathematics—Pure Mathematics, Engineering and Astronomy.
5. Physical Sciences—Physics, Chemistry and Geology.
6. Biological Sciences.
7. History, Economics, Sociology and Political Science.
8. Philosophy, Psychology and Education.
9. Biblical Literature and Christian Evidences.

Majors and Minors.

In the Freshman and Sophomore years at least five Semester hours of work must be taken from each of five groups. At the close of the Sophomore year each student shall choose a major and a minor group. He shall during his course complete at least twenty-six Semester hours of work in his major group, and thirteen Semester hours in his minor group, subject to such conditions as the department concerned may prescribe. At least ten Semester hours of his major work shall be done during his Junior and Senior years. In the selection of minors, German, French, Philosophy (inclusive of Psychology), Chemistry, Physics and Education shall each be considered a distinct group. For students who select their major from groups 1, 2, 3, 7, 8, 9, four years of Latin will be considered a pre-requisite. The University prefers that in all cases the foreign language admission requirement be Latin. Students who complete 126 Semester hours of work with at least thirty credits including 8 hours of ancient language shall be recommended for the degree of A. B. if their major subject is chosen from Group 1, 2, 3, 7, 8, 9; for the degree of B. S. if their major is chosen from Groups 4, 5 and 6.

Before choosing his major and minor groups the student should advise with the heads of the departments which he chooses. Frequent conferences of that kind are exceedingly important.

Required Work.

The following courses are prescribed for all candidates for a Bachelor's degree: English I and II, a laboratory science ten hours, a modern language ten hours (unless a modern language is offered for entrance, in which case another foreign language may be substituted), Psychology five hours, Ethics two hours and Christian

Evidences two hours. History I and II is required for the Bachelor of Arts degree.

A wide range of electives are offered the student. From these his work should be chosen after careful consultation with the teachers concerned. Furthermore, regard should be had for the proper sequence of subjects. The suggestive courses which follow may be a guide to the student. It is almost never wise for a student to take subjects far in advance of the class to which he properly belongs. The required work must always take precedence over any elective work.

Theses and Degrees.

For the Bachelor's Degree the thesis is optional with the candidate. If written, the subject must be chosen from some topic closely related to the major or minor group of the student. It shall contain from 3,000 to 5,000 words and shall be prepared in suitable form for preservation. One copy shall be deposited in the College library. The student must register for the thesis not later than October first of his Senior year. It must be completed by the beginning of the Spring Semester. If at that time it is accepted and approved by the head of the department from which the topic is taken the student shall receive not more than two Semester hours of credit.

The Degree of Master of Arts and Science.—To obtain either of these advanced degrees, at least one year of graduate study equal to thirty Semester hours in an approved institution will be required. Graduates from colleges other than Ottawa University must do at least one half of their work in residence at Ottawa. In all cases of candidates for the Master's degree, study done other than in Ottawa should be the exception rather than the rule.

Approved work done in the undergraduate course in excess of the graduation requirement and in which a grade of B or higher has been attained, may be counted toward the Master's degree. In every case a thesis will be required.

NOTE: A diploma fee of five dollars will be required for every Degree conferred.

Teachers' Certificates.

Ottawa University is an accredited college under the state laws of 1892 and 1899. Graduates who have taken during their course General Psychology three hours, History of Education three hours, School Administration three hours, and in addition six hours of other work offered by the department of education, receive a three-year state teacher's certificate if the record of their scholarship while in college will average B.

The Board of Recommendations will do all that is in their power to secure places for graduates to teach. On the other hand they will exercise great care in recommending persons for vacant positions. It is to the interest of all parties concerned that due caution be exercised in making recommendations.

Other things being equal, students will be recommended to teach only the subjects of their major group. Frequent consultation

ought to be had with the head of the department in which the major work is done so that the student may be sure that he is taking the subjects that will be most profitable for the purpose in mind. Graduates of Ottawa University have as a rule been very successful in teaching positions.

COURSES BY DEPARTMENTS.

The following pages contain a statement of Courses that are offered in each department. These may be changed in some slight degree but they will be given substantially as they are described here. The equipment of the laboratories and library is sufficient to give any of the courses announced. Other courses may be added if it is found that the time of the teacher and the equipment of the institution are such as to make it possible to pursue them with profit.

BIBLICAL LITERATURE.

This department has been established with the conviction that Jewish as well as Greek and Roman history has had a large place in shaping the forces of all that is best in present day civilization. The purpose of the courses offered is to give the student a knowledge of the history contained in the Bible and a method of applying to our times the principles underlying that history. All of the courses are elective to college students and to others only upon consent of the instructor.

I.—Old Testament History to the Division of the Kingdom. The course of events is taken up in chronological order with special relation to contemporary nations and history. Attention is given to Biblical geography and archeology in a limited degree. Fall Semester, two hours.

II.—Old Testament History from the Division of the Kingdom to the Christian Era. This course is a continuation of Course I. Spring Semester, two hours.

III.—Life of Christ. This is a careful study of the life of our Lord as set forth in the four Gospels in the light of the times in which He lived and the customs that surrounded Him. Fall Semester, three hours.

IV.—The Apostolic Age. This is a careful study of the Acts and the Epistles to show the organization, growth, life and practices of the early church. Spring Semester, three hours.

V.—The History of the Bible. The formation of the canon of the Old and New Testaments, the manuscripts, the translations into English, and the principles of interpretation will be considered. Fall Semester, two hours.

VI.—Missions. A study of comparative religions, the beginnings of work on some of the principal mission fields and the most approved missionary methods. Fall Semester, two hours.

NOTE.—Courses are offered each year in the Greek New Testament. For a description of these courses see the Greek Department.

BIOLOGY.

For the equipment in this department see page 20.

I.—General Biology. The more simple laws of life, and the relation between plants and animals are presented under this topic. Laboratory work on typical representatives of the lower orders of plants and animals forms a large part of the course. This is designed as introductory to the advanced courses in Botany and Zoology, as well as for those who desire a general knowledge of the laws of life. Fall Semester, three hours.

II.—A continuation of Course I. Spring Semester, two hours.

BOTANY.

I.—Cryptogamic Botany. Algae, fungi, liver-worts, mosses, and ferns. Two lectures and one laboratory exercise a week. Fall Semester, three hours, elective for Juniors and Seniors.

II.—Morphology, Histology and Physiology of Flowering Plants. Preparation of twenty-five slides. Open to those who have taken Histology. Spring Semester, three hours.

III.—Bacteriology. A study of typical forms of pathogenic and non-pathogenic bacteria. Culture methods, inoculation, sterilization, prevention of diseases, etc. Fall Semester, two hours.

CHEMISTRY.

For the equipment in this department see page 20.

I.—General Chemistry. Lectures, recitations and laboratory work. In this course the elementary principles of chemistry are given consideration. The principal elements are studied with reference to their history, geographical distribution and commercial importance. Emphasis is laid upon the application of chemistry to the arts and manufactures. The laboratory work is an important feature of this course. Spring Semester, five hours.

II.—General Chemistry. Lectures, recitations, reading and laboratory work. The elements and their compounds are studied in such a manner as to furnish a good foundation for future work. The theoretical side of the subject is given considerable attention. The elementary principles of physical Chemistry are introduced. Fall Semester, three hours. An additional credit of one hour may be secured by additional laboratory work in inorganic preparations.

III.—Qualitative Analysis. Lectures, recitations and laboratory work. Spring Semester, four hours. An additional credit of one hour may be secured by additional laboratory work.

IV.—Quantitative Analysis. Lectures, recitations and laboratory work. This course includes gravimetric and volumetric methods. Fall Semester, five hours.

V.—Organic Chemistry. Lectures, recitations and laboratory work. Spring Semester, five hours.

VI.—Physical Chemistry. Lectures, recitations and laboratory work. Fall Semester, three or five hours.

VII.—Chemistry of Foods and Water. Laboratory work. Either Semester, one to five hours.

VIII.—Advanced Quantitative Analysis. Laboratory work. Either Semester, one to five hours.

REMARK:—Students who are preparing to teach Chemistry in the High School are expected to take courses I, II, III and VI.

CYTOLOGY.

A course dealing with the structure and functions of the cell, with methods of work; special references to the developmental phenomena of cell life, and the various problems centering upon those that have the mechanism of hereditary transmission. Open to those who have taken Histology. Fall Semester, three hours.

EDUCATION.

I.—History of Education. Recitations and discussions based upon Monroe's Brief Course in the History of Education as a text book. The course will trace the development of educational ideals and systems from their beginnings in primitive society up to the present time, special attention being given to the pedagogical theories of modern times and their influence upon educational development in America. Extensive reading from standard works on the various periods of educational history. Two hours throughout the year.

II.—School Management. Lectures, discussions, and assigned readings. The course will deal with the relation of the people and the school, school organization and control, the material appliances to school economy, and school hygiene. Fall Semester, three hours.

IIIa.—School Methods. One third of the work will deal with the general principles of method as based on psychology and logic. In the remaining two thirds of the course, the student is trained to apply the principles of general method to the teaching of typical secondary school subjects. For this work the class will be taught in two sections, the one studying the teaching methods of the sciences, the other the humanities. Spring Semester, three hours.

IIIb.—Practice Teaching. Seniors of marked ability may do four hours of practice teaching in secondary branches, subject to the constant supervision and criticism of the professor of Education and of the professor in whose department the subject taught properly

falls. Requires Course IIIa as a prerequisite; hence students intending to take Course IIIb must take Course IIIa in their Junior year. Fall or Spring Semester, three hours credit.

IV.—Philosophy of Education. Lectures and discussions. This course will consider the modern theories as to the ideals of education from the standpoint of both form and content. Various types of the more complex problems of Education will be investigated, and an attempt will be made to reduce all of educational theory and practice to a philosophical unity. Extensive reading from standard works on Education will be involved. Spring Semester, three hours.

V.—Secondary Education. Lectures, discussions and readings. The first part of the course will consist of a brief survey of the history of secondary education, followed by a study of the psychological and physiological development of adolescence. The remainder of the semester will be devoted to a consideration of the problems of secondary school administration. Fall Semester, two hours.

VI.—School Systems. Lectures and discussions, with supplementary readings. The course will consist of a comparative study of typical European and American school systems and methods, with a view to a broader interpretation of current educational movements, especially in the United States. Fall Semester, one hour.

Candidates for the State Teacher's Certificate will be required to spend a number of hours in school visitation under the direction of the Department.

Graduates completing Courses I and II in Education, Course I in Philosophy, and five additional hours in Education are entitled without further examination to a three year renewable State Teacher's Certificate valid throughout Kansas and several neighboring states. Students completing Courses I, II, IIIa and VI in Education and Courses II in Philosophy will hereafter receive, upon application, a First Grade Certificate in the state of Nebraska. Arrangements are being made whereby students completing Courses I, II and V in Philosophy and Courses I, IIIa, and IV in Education will and V in Philosophy and Courses I, IIIa, and IV in Education will hereafter receive, on application, a State Certificate in Iowa. Arrangements are further being made whereby students completing Courses I and II in Philosophy and Courses I, IIIa, IIIb and IV in Education will, upon application, receive a State Certificate for Missouri. Similar arrangements have been made for the state of Oklahoma.

Courses I and II should be taken during the Sophomore or Junior year. Courses III, V, and VI are open to Juniors and Seniors, Course IV to Seniors.

ECONOMICS AND SOCIOLOGY.

Except in Course I, which is chiefly a textbook course, the work in this department consists principally of lectures, comparative

study of leading authors and discussion of current problems in the magazines and periodicals of the day.

I.—Economics. This course will follow the systematic study of theory and application of the principles of Economics as brought out in some recent textbook of recognized authority, such as Ely's *Outlines of Economics* or Johnson's *Introductory Economics*. Fall Semester, three hours.

II.—Money and Banking. Critical study of current theory with application to present-day problems in the United States. Prerequisite: Course I. Spring Semester, two hours.

IV.—Socialism. A review of the history and present status of the socialist movement in Europe and America, with an attempt to estimate the value of its constructive proposals. Course I is a desirable but not a necessary pre-requisite. Spring Semester, one hour.

XI.—Elements of Sociology. An introductory course, treating briefly the fundamental principles of social organization, the origin and growth of institutions, social control and social psychology. Fall Semester, two hours.

XII.—Applied Sociology. Application of sociological principles to present-day problems of social betterment. Lectures and investigation of special topics. Prerequisite: Course XI. Spring Semester, two hours.

ELOCUTION.

Attention is called to the course in Elocution or Expression as outlined in the section of the catalogue devoted to The School of Fine Arts. A complete course is offered. It can be taken either by itself or in connection with regular college work. A special fee is charged for this work.

For college credits allowed see The School of Fine Arts.

ENGINEERING.

For the equipment of this department see page 21 and 22 under Mechanical Drawing and Surveying.

I.—Elementary Mechanical Drawing. Geometrical constructions; orthographic, isometric, and cabinet projections; abundant practice in freehand lettering. Fall Semester, three hours credit.

II.—Machine Drawing. Drawing of machine details; tracing and blue printing; elements of machine drawing. Spring Semester, one hour, and Fall Semester, two hours.

III.—Machine Drawing. A continuation of Course II. Detailing of machines from assembly drawings, followed by the preparation of

complete working drawings for some simple machine. Fall Semester, one hour, and Spring Semester, two hours.

IV.—**Topographical Drawing.** A study of and practice in the conventional methods of representing topography. This course should be taken in connection with Surveying. Spring Semester, three hours.

V.—**Descriptive Geometry.** Problems relating to the point, line and plane. The generation and classification of lines and surfaces; planes tangent to surfaces of single and double curvature; intersections and developments of surfaces. Spring Semester, three hours.

VI.—**Surveying I.** Engineer's instruments, their construction and adjustment; methods of making and plotting land surveys; leveling; sources of errors and the means of controlling the precision of field work. Fall Semester, three hours.

VII.—**Surveying II.** Continuation of Surveying I. City surveying; topographical surveying. Spring Semester, two hours.

NOTE.—In both Surveying I and II one half-day per week is spent in field-practice.

ENGLISH LANGUAGE AND LITERATURE.

Two courses in English are required: English I and II, six hours, of all Freshmen, and English V, of all Scientific, Pre-Engineering, and Pre-Medical Juniors. Course XI is prerequisite for all other courses in English, and students who expect to elect an English major are advised to take it in their Freshman year. For all students who are planning to teach English in High School and wish recommendation Course XXX is a requirement in addition to the twenty-six hours required for the English major. Students majoring in English are expected to consult the head of the department with reference to choice of minor and elective studies, and with reference to the distribution of their work between language and literature.

English Language.

I and II.—**Rhetoric and Composition.** A course in the principles of writing, covering the forms of discourse, criticism, etc. Lectures, recitations, and conferences. Required of all Freshmen. Fall and Spring Semesters, three hours.

III.—**Advanced Composition.** A course in writing, open only to students who have obtained a grade of A or B in English I. Fall Semester, two hours. Third hour at the pleasure of the instructor.

IV.—**A Continuation of Course III.** Spring Semester, two hours.

V.—**Required Scientific Composition.** A study of the principles of discourse with especial attention to the forms used in scientific

work. Class meets with English III, but follows a different schedule. Fall Semester, three hours.

XX.—**Oratory and Debating.** A course in the Rhetoric of Oratory, with an oration and frequent extempore speaking required. Spring Semester, three hours.

XXI.—**Oral Composition.** Debating and Extempore Speaking. A course designed to give opportunity for training in public speaking—a continuation of English XX. Fall Semester, three hours.

XXV.—**Journalism.** A course in newspaper reporting and editorial writing, with laboratory work on the Campus and News Bulletin. Lectures on newspaper methods. Fall Semester, two hours.

English Literature.

VI.—**Chaucer.** A study and interpretation of the Prologue, and selections from the Canterbury Tales. Fall Semester, two hours. Offered conditionally 1911-12.

VII and VIII.—**Shakespeare.** An intensive study of six plays, three each semester—with outside readings upon the life and times of Shakespeare. Not given in (1911-12), as this course alternates with English IX and X. Fall and Spring Semesters, three hours.

IX.—**Literature of the Age of Elizabeth.** A reading course in the drama of the age with some attention to the prose and poetry. Lectures and reading will cover the Pre-Shakespearean period, all of the plays of Shakespeare, and several of those of his contemporaries. Fall Semester, three hours. Open to Juniors and Seniors.

X.—**A Continuation of Course IX.** Spring Semester, three hours.

XI.—**History of Literature.** A course in the development and history of English Literature from the Anglo-Saxon period to the present time. Required of all students majoring in English. Fall Semester, three hours.

XII.—**From Milton to Tennyson.** Outline course in the study of Poetry. Recitations and outside reading, with oral and written reports required. This course is designed to follow English XI and to alternate with English XIV. Spring Semester, three hours.

XIV.—**American Literature.** General survey of the whole field, with special reference to the New England School. Lectures, recitations, outside reading, and written and oral reports. Spring Semester, three hours. (Not given in 1911-12.)

XV and XVI.—**Nineteenth Century Prose.** A general survey of the critics, essayists, novelists, and historians of the period. Lectures, outside reading and theses. Open to Sophomores, Juniors and

Seniors who have had English I and XI. Alternates with English XVII and XVIII. Fall and Spring Semesters, three hours.

XVII and XVIII.—Nineteenth Century Poetry. An outline course with lectures, recitations, outside reading and reports. Thesis required. Open to Sophomores, Juniors and Seniors who have had English I and II and English XI. Fall and Spring Semesters, three hours. (Not given in 1911-12).

XXX.—Methods of Teaching English. Seminar course in the principles of teaching English Composition, English Language, and English Literature. Open to Seniors who have taken or are finishing twenty-six hours of English work. Spring Semester, two hours.

FRENCH.

To secure the most efficient command of the French language the students are drilled to understand the spoken as well as the written language. All of the reading during the first year is made the basis for work in conversation and composition. The reading also aims to acquaint the students with different phases and aspects of life in France.

I.—A and B Elementary French. Easy reading, drill in pronunciation and in grammar, inclusive of the more usual irregular verbs. Oral and written exercises.

Text books used in year 1910-11: Frazer & Squair's French Grammar, Aldrich & Foster's Reader, Legouve's *Le Monde ou l'on s'ennuie*, Renan's *Ma Soeur Henriette*. Fall and Spring Semesters, five hours. No Credit given the student till the year's work is completed.

II.—Intermediate French. Modern Writers. Reading of texts of increasing difficulty. Discussions, very easy lectures, composition, advanced work in grammar.

Text books used: Frazier & Squair's French Grammar, Part III. Feuillet's *Roman d'un Jeune Homme Pauvre*, Victor Hugo's *Les Misérables*, Daudet's *Contes Choisis*. Fall Semester, three hours. Open to students who have completed I, A and B.

III.—Intermediate French. Classical Authors. Methods as in II. The text will be La Fontaine's *Fables*, Molière's *Les Précieuses Ridicules*, Racine's *Athalie*. Spring Semester, three hours. Pre-requisite, French I and II.

GEOLOGY.

I.—Geology. A course in general Geology consisting of lectures, recitations and readings, supplemented by excursions. Chemistry I is pre-requisite to this course. Fall Semester, three hours.

II.—Geology. A continuation of course I. Spring Semester, two hours.

GERMAN.

The aim of this department is to give the students a serviceable command of the German language, as well as an introduction to the best German literature.

To secure the first end the students are drilled to understand readily the spoken as well as the written language, and to acquire a steadily increasing vocabulary which they are trained to use correctly from the very beginning, both in speaking and in writing. Practically nothing is read that is not made the basis of work in composition or conversation. All the reading is chosen with a view to its interest in presenting aspects of German life while the work offered in the third and fourth years offers studies in representative masterpieces of the classical and the post classical periods.

Courses IV and V, and VII and VIII respectively are offered in alternate years, thus offering a continuous course of study in German for the four years in College. Students who expect to teach German in the High School ought to take these thirty semester hours.

I.—A and B Elementary German. Easy reading, thorough drill in the inflectional system and in simple syntax. Exercises, oral and written. Memorizing of poetry.

Text books used in 1910-11: Vos' German Grammar, Allen's *Herein*, Storm's *Immensée*, Schiller's *Wilhelm Tell*. Fall and Spring Semesters, five hours. No credit will be given the student till the year's work is completed.

II.—Intermediate German. Reading of modern prose of increasing difficulty, special attention being given to idioms. Exactness in translation will be required as well as the ability to discuss and recite the text read. Brief review of grammar, with the emphasis on drill in the inflectional irregularities and syntactical difficulties. Weekly compositions.

Text books used in 1910-11: Herwirth's *Abstract of German Grammar*, Seidel's *Leberecht Hühnechen*, Lessing's *Minna von Barnhelm*, Pope's *German Composition*. Fall Semester, four hours.

III.—Intermediate German. Brief survey of the most important facts in the history of German literature. Informal talks and discussions. Introduction to difficult prose. Study of some ballads and lyrics. Weekly composition, studies in German syntax.

Textbooks used in the year 1910-11: Keller's *Bilder aus der deutschen Literatur*, Freytag's *Doktor Luther*, Pope's *German Composition*, Parts II and III. Spring Semester, four hours.

IV.—Schiller's Life and Works. Easy lectures, short papers.

V.—Goethe's Life and Works. Method as in IV. Texts for 1910-11: Goethe's *Poems*, *Sesenheim*, *Iphigenie*, *Hermann and Dorothea*. Spring Semester, three hours, elective for students who

have completed Courses I A and B, II, III, IV, or equivalents. Reference reading in connection with the study of several works and of the biography of Schiller. Texts used 1910-11: Schiller's *Ballads*, Wilhelm Tell and Wallenstein. Fall Semester, three hours, elective equivalents.

VI.—Teacher's Course. One hour a week through the year. Review of difficult grammar and composition, reference reading, brief introduction to the History of German Language.

This course ought to be taken in connection with the practice teaching of German in the Academy, offered by the department of Education.

VII.—German Literature in the First Half of the 19th Century. The most important movements in the German literature of that period as reflected in some of its best works. Lectures, short papers, supplementary reading. Works read in 1910-11: Tieck's *Elfen*, Kleist's *Prinz von Homburg*, Heine's *Harzreise*, Selected Poems, Grillparzer's *Sappho*. Fall Semester, three hours a week, elective for students who have completed Courses I A and B, II and III.

VIII.—German Literature in the Middle of the 19th Century. Methods as in VII. Works read in 1910-11: Preytag's *Friedrich der Grosse*, Ludwig's *Zwischen Himmel und Erde*, Hebbel's *Herodes*, Marianne, Keller's *Romeo und Julie auf dem Dorfe*. Spring Semester, three hours elective for students who have completed Courses I A and B; II, III, VII.

THE GREEK LANGUAGE AND LITERATURE.

The work is planned with the primary aim of helping the students as soon as possible to read the simpler of those masterpieces which have most powerfully influenced subsequent literature and thought. Thus the work of the second year includes an introduction to Plato and Homer, while electives provide for the continued study of these authors and an introduction to the drama. The stereopticon, stereoscopes, and the photographs are freely used as aids in reproducing the material aspects of contemporary Greek life. Students for the ministry will each year be given the opportunity to study New Testament Greek. Each year there will also be opportunity for those who do not know the language to study some aspect of Greek civilization.

I.—The Elements of Greek. Mastery of the inflectional system and a vocabulary of about five hundred words; elements of syntax, exercises, and simple connected readings. In the acquisition of vocabulary, particular attention is given to the composition and derivation of words and to Latin and English cognates and derivatives. Fall Semester, five hours.

II.—Xenophon's *Anabasis*. The reading of the first book and as much of the second as time will permit, systematic attention to the

acquisition of vocabulary, studies in Greek syntax. Spring Semester, five hours.

III.—Plato: The *Apology*, *Crito*, and Selections from the *Phaedo*. These selections center about the personality of Socrates, probably the most fascinating character of classical antiquity, and include his defense when put on trial for corrupting the youth, and an account of conversations with his friends immediately before his death. With the reading of the text there are studies in Athenian life and art, illustrated by lantern and stereoscope. Fall Semester, four hours.

IV.—Homer: The *Odyssey*. The selections include the most interesting portions of books I—XII. Homeric vocabulary is systematically studied from the beginning. The primary purpose of the course will be to enable the student to read the Homeric poems with readiness and pleasure. "Mycenaean" life and art form the subject of supplementary studies. Spring Semester, four hours.

VII.—Plato: Selected Dialogues. Readings from the less technical dialogues illustrating Plato's brilliancy of style, and at the same time affording an introduction to his ethical, social, and political ideas. These ideas are discussed in their relation to present day problems. Fall Semester, 1912, three hours.

VIII.—Homer. The reading and interpretation of passages of particular literary or human interest, the selections being chiefly from the *Iliad*. Spring Semester, 1913, three hours.

IX.—Introduction to the Study of the Gospels in Greek. Characteristics of the language of the Gospels in relation to Attic Greek. Close study of the vocabulary, particularly the ethical and religious terms, with comparison of their significance in pagan and Christian writings. Mark and part of John will be studied. Spring Semester, 1912, two (or more) hours.

X.—Introduction to the Study of the Pauline Epistles in Greek. A study of the language of Galatians and Ephesians similar to that outlined under Course IX. Spring Semester, 1913, two (or more) hours.

XIII.—Herodotus and Demosthenes. Selections illustrating the power of Herodotus as a story-teller and representative examples of the eloquence of Demosthenes, with studies in Greek history. Fall Semester, 1911, three hours.

XV.—Greek Drama. The *Antigone* of Sophocles studied as an introduction to Greek tragedy. About half of the *Clouds* of Aristophanes. Spring Semester, 1912, three hours.

XXI.—The History of Greek Art. Lectures, assigned readings, and the preparation of papers. The various topics are illustrated by the use of the stereopticon, the stereoscope, and a good collection of photographs. Fall Semester, 1912, two hours.

XXV.—Plato in English. The study and analysis of selections chiefly from the *Republic*, Plato's most comprehensive, suggestive,

and brilliant work. Emphasis is placed on those elements which have been and still are influential in shaping the world's thought on ethics, politics, sociology, education, and religion. The course is open to those who have no knowledge of Greek. Fall Semester, 1912, two hours.

HISTOLOGY.

For equipment in this department see page 26.

I.—A course in the various phases of Histological Technique: hardening, staining, cutting and mounting. Preparation and mounting forty sections of typical tissues. Lectures and laboratory work. Fall Semester, two hours.

II.—Continuation of Course I, Spring Semester, two hours.

HISTORY AND POLITICAL SCIENCE.

All courses in this Department except XI and XII run through the year and it is preferred that they be taken complete. Credit may be obtained, however, for the work of either the fall or the spring semester alone.

I and II.—Medieval and Modern Europe. A general survey of the history of Europe from the fall of Rome to the close of the nineteenth century. Text book, recitations and reports of collateral reading. Fall and Spring Semester, three hours.

III and IV.—History of England. A general survey of the history of England and English institutions down to the present time. Fall and Spring Semesters, two hours.

V and VI.—American Constitutional History. Colonial origins of American political institutions, formation of the constitution, the struggle between nationalism and state sovereignty, reconstruction, recent tendencies in constitutional development. An elementary knowledge of American history is presupposed. Fall and Spring Semesters, three hours, alternating with VII and VIII. Given in 1911-12.

VII and VIII.—Recent European History (1760-1911). In the first semester a careful study is made of the institutions of the old regime, the French Revolution, and the era of Napoleon. The second semester's work traces the development of institutions and international relations in the nineteenth century. Special attention is given to the rise of democracy, the colonial expansion of Europe, and the awakening of the Orient. These courses alternate with V and VI, and will not be given in 1911-12. Prerequisite: Courses I and II. Fall and Spring Semesters, three hours.

XI.—American Government. An advanced course in civil government. Particular attention is given to state and municipal in-

stitutions and the working of the party system. Text: Beard's American Government. Fall Semester, 1911, two hours.

XII.—Political Science. A study of modern theories of the nature and function of the state, together with a comparison of the practical working of governmental institutions of the leading nations. Spring Semester, two hours.

XXI and XXII.—Church History. A survey of the institutional and doctrinal development of the Christian church from the apostolic period until recent times, special attention being paid to the rise of the leading Protestant denominations. Fall and Spring Semesters, two hours.

THE LATIN LANGUAGE AND LITERATURE.

Students entering college with but three entrance units of Latin will make up the Virgil or Cicero, as the case may be, in the Academy, receiving college credit to the extent of six semester hours. No student may without special permission undertake the courses described below unless he has taken or is taking the work corresponding to the fourth entrance unit.

Those who expect to be recommended as teachers of Latin in the High School should elect three hours a week throughout the Sophomore, Junior and Senior years.

I.—Cicero and Terence. The *De Senectute* or *De Amicitia* of Cicero and the *Phormio* of Terence. History of the literature of the Republic. Review of Latin syntax. Fall Semester, three hours. Freshmen.

II.—Studies in Roman History from the earliest times to the fall of the Western Empire, with emphasis on Roman institutions. Lectures and library work. Fall Semester, two hours.

III.—Horace. Selections chiefly from the Odes and Epodes, but including several of the Satires of greatest biographical interest. Metrical reading of the Latin. Mythological and historical references. History of the literature of the Augustan Age. Spring Semester, three hours. Freshmen.

III.—Selections from Livy and the Poets. (a) Passages illustrating Livy's rhetorical and pictorial power. (b) Representative selection from the poetry of both the Republic and the Empire. Spring Semester, three hours: Sophomore elective.

IV.—Letter Writers and Roman Private Life. Selections from the letters of Pliny and Cicero. One hour a week given to a systematic study of Roman Private Life. Fall Semester, three hours: Sophomore elective.

Electives for Juniors and Seniors.

Courses V—XII are arranged in two groups which are given in alternate years. Choice is given between the two courses design-

nated for each semester. In 1911-12 choice will be from courses VI, IX and X.

V.—*Life and Times of Cicero.* Letters of Cicero read in chronological order from the historical rather than the linguistic point of view. Supplementary lectures and library work. Fall Semester, 1911, three hours.

VI.—*Tacitus and Juvenal.* Selections from the works of Tacitus illustrating his characteristics as a historian and the development of his style. His essentially satirical temper is illustrated by the study of selections from the *Satires* of Juvenal. Spring Semester, 1912, three hours.

VII.—*Epistles and Satires of Horace.* Interpretation of the *Arte Poetica* and the more significant literary epistles and satires. Consideration of the questions of literary history and criticism involved. Fall Semester, three hours, 1912.

VIII.—*Roman Ethics.* Selections from the philosophical works of Cicero and Seneca. Lectures on ancient ethics. Spring Semester, 1912, three hours.

IX.—*Lucretius' de Rerum Natura.* The selections made will illustrate the poetic genius and moral earnestness of Lucretius, as well as the interesting parallels which his physical and biological doctrines present to the speculations of modern scientists. Fall Semester, 1911, three hours.

X.—*Teachers' Course.* (a) A survey of Latin Grammar in view of recent investigations; with a comparison of the leading school grammars, the grammatical study of portions of the text commonly read in secondary schools, and the writing of Latin exercises. (b) Informal lectures on methods of teaching secondary Latin and Bibliography for Latin teachers. Spring Semester, 1912, three hours.

XI.—*Roman Comedy.* One comedy of Plautus will be carefully studied from both the literary and linguistic points of view, and one or two others will be more rapidly read. In case the class is unfamiliar with Terence, one play may be from that author. Fall Semester, 1912, three hours.

XII.—*Virgil and His Art.* Readings from the later books of the *Aeneid* and from the *Georgics* and *Bucolics*, with constant comparison with *Aeneid* I-VI. Prospective teachers of Virgil will here find an opportunity to extend their knowledge of the poet's work. Spring Semester, 1912.

MATHEMATICS.

The department is prepared to furnish instruction in pure and applied mathematics. The former courses are provided for the general student, while the latter are offered for the benefit of those who desire to prepare for an engineering course. Students who take

the Pre-Engineering course will, upon its completion, have finished about the first two years of an Engineering course.

The equipment for Mathematics consists of models of surfaces of revolution, ellipsoids, paraboloids, and hyperboloids, made of plaster and thread. Also wooden models of elementary geometrical solids and intersections of the same; spherical blackboards; blackboards ruled for rectangular and polar coordinates; trigonometric models showing the functions of any angle; protractors, compasses and other articles helpful to the student of mathematics.

I.—*Solid Geometry.* Open to all students not offering solid Geometry for entrance. Three semester hours for college credit will be given if it is not necessary for entrance credits. Fall Semester, four hours.

II.—*College Algebra.* Rapid review of exponents, radicals, and quadratic equations; graphic representation; binomial theorem; series; complex numbers; theory of equations; determinants and logarithms. Fall Semester, three hours.

III.—*Plane Trigonometry.* The six trigonometric functions; principal formulas of plane trigonometry; solution of triangles and practical problems. Fall Semester, two hours.

IV.—*Elementary Mechanics.* An elementary course, requiring a knowledge of elementary physics and plane trigonometry. Spring Semester, two hours.

V.—*Analytic Geometry I.* The straight line and circle. Fall Semester, two hours.

VI.—*Analytic Geometry II.* Polar Co-ordinates; conic sections; higher plane curves; solid analytics. Spring Semester, two hours.

VII.—*Calculus I.* Differential Calculus. Fundamental principles; derivatives; applications to geometry and mechanics; maxima and minima; indeterminates; series. Fall Semester, three hours.

VIII.—*Calculus II.* Integral Calculus. Integration; definite integrals; application to lengths, areas, and volumes. Spring Semester, three hours.

IX.—*Descriptive Astronomy.* An introductory course covering the general principles of the science. Spring Semester, two hours.

MUSIC.

We believe that some knowledge of Music is essential to any broad culture. Therefore a Conservatory of Music is maintained as a part of the University. For the complete description of the courses there offered see the outlines as presented in that section.

of the catalogue devoted to The School of Fine Arts. For college credits allowed for this work see The School of Fine Arts.
A special fee is attached to these courses.

PEDAGOGY—See EDUCATION.

PHILOSOPHY.

I.—Psychology. An introductory course based upon Judd's *Psychology* as a text book, and extensively supplemented from larger works. The course will consist of lectures, recitations, discussions, and demonstration. Toward the close of the year, in so far as time permits, recourse will be had to laboratory experiment, with special reference to the method of psychological investigation. Fall Semester, three hours; Spring Semester, two hours. Open to Sophomores.

II.—Educational Psychology. A course supplementary to Course I, introducing such additional material and indicating such pedagogical implications as to render a knowledge of Psychology most serviceable in educational work. Spring Semester, one hour.

III.—Ethics. An elementary course, conducted largely in the form of lectures and discussions. The class will consider the three types of the moral ideal, (Hedonism, Rationalism, and Eudæmonism), the virtues and duties of the moral life, both individual and social, and the three ethical postulates of the freedom of the will, the being of God, and the immortality of the soul. Fall Semester, two hours. Required of all Seniors. May be elected by Juniors with the approval of the instructor.

IV.—Theism (Christian Evidences). Lectures and discussions. The course will consider the metaphysical basis of theism, arguments for the existence of God, and grounds for belief in the work and message of Christ and the Christian experience. Spring Semester, two hours. Required of all Seniors. May be elected by Juniors with the approval of the instructor.

V.—History of Philosophy. An elementary course, conducted largely in the form of lectures and discussions. The course will give a general account of philosophical speculation from its origin among the Greeks to the present time. Two essays on themes connected with the lectures will be required during each semester. Two hours throughout the year.

VI.—Modern Philosophy, from Descartes to Kant. Lectures, essays, and discussions, based largely upon the original writings of Descartes, Spinoza, Locke, Berkeley, Hume, Leibnitz and Kant. Fall Semester, two hours. Open only to students who have completed creditably Course V.

VII.—Logic. An elementary course, based upon Boole's *Logic* as a text book. It will deal with the general character of the thinking process, its laws of development, and the methods by

which thought actually proceeds to solve the problems presented to it. Attention will be given to the methods of Logic as applied in statistical and natural sciences. Fall Semester, two hours.

VIII.—Metaphysics. Lectures and discussions, with assigned readings. The aim of the course will be to give the student a basis for an independent and logical standpoint in Philosophy and Religion. Spring Semester, two hours. Open to students who have completed or are taking Course V.

IX.—History of Ethics. Lectures and discussions, with assigned readings. A history of ethical reflection with special reference to the development of theories of morals in their relation to one another and to the general influences of their times. Spring Semester, one hour. Open to students who have completed or are taking either Course III or Course V.

Courses VI, VIII and IX are primarily intended to offer more advanced work in Philosophy for those who desire to extend their study beyond the work offered in Courses I to V. Students who contemplate taking the more advanced work in Philosophy may enter Course V during their Sophomore year, with the approval of the instructor.

PHYSICS.

For the equipment of this department see page 21.

Physics A.—Elementary Physics. Mechanics and Heat. Fall Semester, four hours. One laboratory period per week.

Physics B.—Electricity and Magnetism, and Sound and Light. Spring Semester, four hours. One laboratory period per week.

NOTE.—Physics A and B are the regular courses offered in the fourth year academic course, and should be elected by all Freshmen who desire to major in Scientific subjects and who do not offer Physics as an entrance subject. To such students a college credit of three hours per semester will be given unless the subject is necessary to complete the requisite number of entrance units.

I.—General Physics. Mechanics and Heat. A fundamental course of experimental lectures, recitations and problem working. Prerequisites, plane trigonometry and some knowledge of analytic geometry. Fall Semester, four hours of lectures and recitations, and one three hour laboratory period per week. Five hours credit.

II.—General Physics. Electricity and Magnetism, and Sound and Light. A continuation of Course I; Chemistry I also a prerequisite. Spring Semester, five hours credit.

III.—Electrical Measurements. Two lectures per week on the Theory of Electricity and Magnetism, and one three hour laboratory period in the exact determination of electrical quantities, such as

self induction, mutual induction, capacity, etc. Pre-requisites, Calculus I and II, and Physics I and II. Fall Semester, three hours.

IV.—Advanced Electrical Measurements. Continuation of Course III, with the same arrangement of lectures and laboratory work, and with the same pre-requisites. Spring Semester, three hours.

PHYSIOLOGY.

I.—General Physiology. Lectures and laboratory work. Spring Semester, three hours.

II.—Advanced Physiology. A continuation of Course I. A study of Neurology or Osteology. The nervous system and its end organs, or the human skeleton, as the needs of the class may demand. Lectures and laboratory work. Open only to those who have completed Course I. Fall Semester, two hours.

III.—Comparative Physiology and Anatomy. A comparative study of mammalian types. Lectures and laboratory work on typical forms. The course is especially designed to meet the needs of Medical candidates. Spring Semester, five hours.

SOCIOLOGY.—See ECONOMICS.

ZOOLOGY.

I.—Invertebrate Zoology. The purpose of this course is to give the student a definite idea of the principles of the science of Zoology as generally accepted by zoologists, in order that he may understand the philosophical discussions and writings relating to modern doctrines of biology. Lectures and laboratory work on typical invertebrate forms. Fall Semester, three hours.

II.—Vertebrate Zoology. Lectures and laboratory exercises weekly. Open only to those who have taken Course I. Spring Semester, three hours.

III.—Entomology. Lectures, laboratory and field work on insects; a study intended to set forth the Biologic and Economic significance of this very important group. Zoology I is pre-requisite. Spring Semester, three hours. Given in 1912 and alternates with Zoology II thereafter.

SUGGESTED COURSES.

In order to aid the student in planning his work during his four years in the College of Liberal Arts the following courses are suggested. Each of these include all of the required work. In each case the subjects are suggested in the order in which they can be taken with the greatest profit to the student. It is understood that all except the required work described on page 37 is suggested in order to make the student's work symmetrical. However, these

suggestions have been formulated by those who have devoted much time and study to these matters and ought to be followed unless there is some sufficient reason for departing from them. Those who complete creditably any one of the Courses from I to IX will be recommended for the degree of Bachelor of Arts, and those who complete in a creditable manner any one of the Courses from X and XV will be recommended for the degree of Bachelor of Science. In the following outline, the Roman numerals refer to the Courses in Departments of Study and the Arabic to the number of semester hours in that Course.

Course I.—English Literature as a Major.

Freshman.	
Fall Semester.	Spring Semester.
English I.....3	English II.....3
German IA.....5	German IB.....5
Latin I.....2	Latin II.....3
Latin-Roman History IA.....2	Chemistry I.....5
English XI.....3	

Sophomore.	
English (elect).....3	English (elect).....3
English III.....2	English IV.....2
General Biology I.....3	General Biology II.....2
History I.....3	History II.....3
French IA or German II..4 or 5	French IB or German III..4 or 5
	Elective.....1 or 2

Junior.	
English IX.....3	English X.....3
Psychology I.....3	Psychology I and II.....3
Economics XI (Sociology).....2	Economics XII (Sociology).....2
Elective.....5	Elective.....8

Senior.	
English XVII.....3	English XVIII.....3
Ethics.....2	Theism.....2
Elective.....10	Elective.....10

English XXX, Spring Semester, two hours, is required of those Seniors who expect to be recommended as teachers of English.

Any of the following Groups may be chosen as a minor in this course: The Ancient Languages, German, History and Economics, Philosophy, Education, Biblical Literature, or Science.

Course II.—English Language as a Major.

This course is suggested for those wishing to give special attention to writing, debating and oratory.

Freshman.

Fall Semester.

English I	3
German IA	5
Latin I	3
Latin-Roman History	2
English XXV (Journalism)	2
Expression	1

Spring Semester.

English II	3
German IB	5
Latin II	3
English XX	2
Expression	2
Chemistry I (or elective)	5

Sophomore.

English III	2
History I	3
General Biology I	3
Economics I	3
English XXI	3
Elective	2

English IV	2
History II	3
General Biology II	2
Economics II and IV	2
Chemistry I (or elective)	5

Junior.

English (elective)	3 or 5
Psychology I	3
History (elective)	3
French IA	5

English (elective)	5
Psychology I and II	2
History (elective)	3
French IB	5

Senior.

English (elective)	3
Ethics	2
Elective	10

English (elective)	3
Theism	2
Elective	10

Course III.—History and Economics as a Major.

Freshman.

Fall Semester.

English I	3
German IA	5
Latin I	3
Latin-Roman History IA	2
English XI	3

Spring Semester.

English II	3
German IB	5
Latin II	3
Chemistry I	5

Sophomore.

History I	3
History III	2
General Biology I	3
French IA or German II	4 or 5
Elective	2 or 3

History II	3
History IV	3
General Biology II	3
French IB or German II	4 or 5
Elective	7 or 8

Junior.

Psychology I	3
Economics I	3
Economics XI (Sociology)	2
Philosophy V	2
History V or VII	3
Elective	3

Psychology I and II	2
Economics II and IV	2
Economics XII	2
Philosophy V	2
History VI or VIII	3
Elective	3

Senior.

Ethics	2
Biblical Literature I or III	2 or 3
History VII or V	3
History XI (American Government)	2
Elective	5 or 6

Theism	2
Biblical Literature II or IV	2 or 3
History VIII or VI	3
History XII (Political Science)	2
Elective	3 or 5

The above course is recommended for students preparing for a business career. Students preparing to teach History in the High School will often find it advisable to take a minor in this group, with a major in English or Latin. A minor for this purpose should include the following courses: History I, II, III, IV, V, VI, and XI, and Economics XI and XIII.

Course IV.—The Ancient Languages as a Major.

This Course is recommended for Ministerial Students.

Freshman.

Fall Semester.

English I	3
Greek I	5
Latin-Roman History	2
English XI or Latin I	3
Science or Mathematics	3

Spring Semester.

English II	3
Greek II	5
English XIV or Latin IV	3
Chemistry I	5

Sophomore.

History I	3
Greek III	4
German IA	5
General Biology I	3
English III	3

History II	3
Greek IV	4
German IB	5
General Biology II	2
English IV	2

Junior.

Psychology I	3
Economics XI (Sociology)	2
Greek VII or XIII	3
Philosophy V	2
Elective	6

Psychology I and II	3
Economics XII (Sociology)	2
Greek IX or X	3
Philosophy V	2
Elective	6

Senior.

Ethics	2
Geology I	3
Greek VII or XIII	3
Elective	7

Theism	2
Geology II	3
Greek IX or X	3
Astronomy	2
Elective	6

It is advisable for ministerial students to select their minor subject from one of the following groups: History and Economics, Philosophy or Education.

Course V.—The Ancient Languages as Major.

This Course is suggested for those who expect to teach Latin and German.

Fall Semester.		Freshman.		Spring Semester.	
English I	3	English II	3	English II	3
Latin I	3	Latin II	3	Latin II	3
Latin-Roman History	2	Chemistry I	5	Chemistry I	5
German IA	5	German IB	5	German IB	5
Science or Mathematics	3				

Sophomore.

Latin III	3	Latin IV	3	Latin IV	3
History I	3	History II	3	History II	3
German II	4	German III	4	German III	4
Elective	6	Elective	6	Elective	6

Junior.

Psychology I	3	Psychology I and II	3	Psychology I and II	3
Economics XI (Sociology)	2	Economics XII (Sociology)	2	Economics XII (Sociology)	2
Latin (elect)	3	Latin (elect)	3	Latin (elect)	3
Elective	8	Elective	8	Elective	8

Senior.

Ethics	2	Theism	2	Theism	2
Latin (elect)	3	Latin (elect)	3	Latin (elect)	3
Elective	10	Elective	10	Elective	10

Those preparing to teach Latin and German ought to elect at least one year of Greek. This can be done in the Sophomore year. The third and fourth years of German can also be taken.

Course VI.—The Ancient Languages as Major.

This Course is suggested for those who wish to make the best preparation for teaching Latin in the High Schools and also for those who expect to do graduate work in the classics.

Fall Semester.		Freshman.		Spring Semester.	
English I	3	English II	3	English II	3
Latin I	3	Latin II	3	Latin II	3
Greek I	5	Greek II	5	Greek II	5
Latin-Roman History	2	Chemistry I	5	Chemistry I	5
Science or Mathematics	3				

Sophomore.

Greek III	4	Greek IV	4	Greek IV	4
German IA	5	German IB	5	German IB	5
History I	3	History II	3	History II	3
Elective	4	Elective	4	Elective	4

Junior.

Psychology I	3	Psychology I and II	3	Psychology I and II	3
Latin III or Greek or both	3-8	Latin IV or Greek or both	3-8	Latin IV or Greek or both	3-8
Economics XI (Sociology)	2	Economics XII (Sociology)	2	Economics XII (Sociology)	2
Elective	3 or 8	Elective	3 or 8	Elective	3 or 8

Senior.

Ethics	2	Theism	2	Theism	2
Latin, Greek or both	3-8	Latin, Greek or both	3-8	Latin, Greek or both	3-8
Elective	5-11	Elective	5-11	Elective	5-11

Course VII.—The Modern Languages as Major.

Fall Semester.		Freshman.		Spring Semester.	
English I	3	English II	3	English II	3
Latin I	3	Latin II	3	Latin II	3
German IA	5	German IB	5	German IB	5
Latin-Roman History	2	Chemistry I	5	Chemistry I	5
Mathematics or Science	3				

Sophomore.

German II	4	German III	4	German III	4
General Biology I	3	General Biology II	2	General Biology II	2
History I	3	History II	3	History II	3
Elective	6	Elective	7	Elective	7

Junior.

Psychology I	3	Psychology I and II	3	Psychology I and II	3
Economics XI (Sociology)	2	Economics XII (Sociology)	2	Economics XII (Sociology)	2
German IV	3	German V	3	German V	3
French IA	5	French IB	5	French IB	5
Elective	3	Elective	3	Elective	3

Senior.

Ethics	2	Theism	2	Theism	2
German (elect)	3	German (elect)	3	German (elect)	3
French II	3	French III	3	French III	3
Elective	7	Elective	7	Elective	7

Students who wish to be recommended as teachers of German in the High School are expected to take thirty semester hours in that subject.

Course VIII.—Philosophy and Education as a Major.

Fall Semester.		Freshman.		Spring Semester.	
English I	3	English II	3	English II	3
German IA	5	German IB	5	German IB	5
Latin I	3	Latin II	3	Latin II	3
Latin-Roman History	2	Chemistry I	5	Chemistry I	5
English XI	3				